tt Library

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XOR3X3H7H

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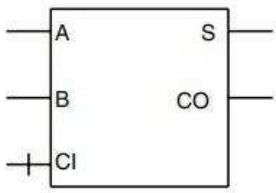
XOR3X6H7H

ADDFX1H7H

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

Cell Description

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



Truth Table

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

Footprint

Cell Name	Area
ADDFX1H7H	5.88000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)	
	A	B	CI	CO	S
ADDFX1H7H	0.00319	0.00356	0.00268	0.04157	0.04137

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
ADDFX1H7H	0.00000	0.04745	0.05631

Delay Information

Delay(ns) to CO rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
ADDFX1H7H	A->CO (RR)	0.12515	0.31703	0.78476
	B->CO (RR)	0.12594	0.31716	0.78134
	CI->CO (RR)	0.11992	0.31142	0.77753

Delay(ns) to CO falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
ADDFX1H7H	A->CO (FF)	0.17720	0.34256	0.74298
	B->CO (FF)	0.18507	0.34946	0.75019
	CI->CO (FF)	0.16978	0.34091	0.74429

Delay(ns) to S rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
ADDFX1H7H	A->S (-R)	0.31165	0.48925	0.94992
	B->S (-R)	0.31208	0.49319	0.95988
	CI->S (-R)	0.29738	0.48396	0.95462

Delay(ns) to S falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
ADDFX1H7H	A->S (-F)	0.28805	0.44289	0.80049
	B->S (-F)	0.27897	0.43931	0.80493
	CI->S (-F)	0.28208	0.44137	0.80797

Power Information

Internal switching power(pJ) to CO rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
ADDFX1H7H	A	0.00153	0.00166	0.00176
	A	-0.00007	-0.00007	-0.00006
	A	0.00009	0.00009	0.00010
	A	0.00185	0.00198	0.00208
	B	0.00148	0.00160	0.00169
	B	-0.00004	-0.00004	-0.00004
	B	0.00005	0.00005	0.00006
	B	0.00208	0.00219	0.00228
	CI	0.00156	0.00165	0.00172
	CI	-0.00004	-0.00003	-0.00003
	CI	0.00004	0.00005	0.00006
	CI	0.00188	0.00197	0.00203

Internal switching power(pJ) to CO falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
ADDFX1H7H	A	0.00182	0.00194	0.00205
	A	0.00012	0.00013	0.00013
	A	-0.00006	-0.00005	-0.00004
	A	0.00152	0.00164	0.00175
	B	0.00191	0.00202	0.00212
	B	0.00007	0.00007	0.00008
	B	-0.00003	-0.00003	-0.00001
	B	0.00132	0.00144	0.00154
	CI	0.00189	0.00197	0.00203
	CI	0.00005	0.00006	0.00006
	CI	-0.00003	-0.00003	-0.00002
	CI	0.00157	0.00165	0.00171

Internal switching power(pJ) to S rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
ADDFX1H7H	A	0.00182	0.00194	0.00205
	A	0.00014	0.00014	0.00016
	A	0.00002	0.00002	0.00002
	A	0.00316	0.00325	0.00335
	B	0.00191	0.00202	0.00212
	B	0.00021	0.00025	0.00025
	B	-0.00003	-0.00003	0.00000
	B	0.00375	0.00385	0.00395
	CI	0.00190	0.00198	0.00203
	CI	0.00020	0.00021	0.00021
	CI	-0.00001	-0.00001	0.00000
	CI	0.00296	0.00306	0.00316

Internal switching power(pJ) to S falling :

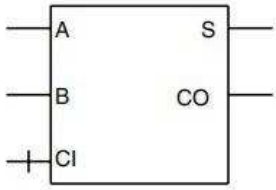
Cell Name	Input	Power(pJ)		
		min	avg	max
ADDFX1H7H	A	0.00321	0.00331	0.00343
	A	0.00000	0.00003	0.00004
	A	0.00013	0.00014	0.00016
	A	0.00185	0.00198	0.00208
	B	0.00340	0.00350	0.00361
	B	-0.00002	-0.00001	-0.00000
	B	0.00021	0.00022	0.00023
	B	0.00208	0.00219	0.00228
	CI	0.00293	0.00303	0.00314
	CI	-0.00001	-0.00000	0.00000
	CI	0.00011	0.00017	0.00019
	CI	0.00188	0.00196	0.00203

ADDFX1P4H7H

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

Cell Description

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



Truth Table

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

Footprint

Cell Name	Area
ADDFX1P4H7H	5.88000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)	
	A	B	CI	CO	S
ADDFX1P4H7H	0.00320	0.00362	0.00271	0.04735	0.04709

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
ADDFX1P4H7H	0.00000	0.05300	0.06715

Delay Information

Delay(ns) to CO rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
ADDFX1P4H7H	A->CO (RR)	0.12541	0.31969	0.79075
	B->CO (RR)	0.12675	0.32014	0.78696
	CI->CO (RR)	0.12043	0.31376	0.78240

Delay(ns) to CO falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
ADDFX1P4H7H	A->CO (FF)	0.17971	0.34841	0.75422
	B->CO (FF)	0.18858	0.35599	0.76200
	CI->CO (FF)	0.17211	0.34635	0.75472

Delay(ns) to S rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
ADDFX1P4H7H	A->S (-R)	0.31823	0.49647	0.95891
	B->S (-R)	0.31927	0.50089	0.96907
	CI->S (-R)	0.30366	0.49069	0.96285

Delay(ns) to S falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
ADDFX1P4H7H	A->S (-F)	0.29315	0.45021	0.81223
	B->S (-F)	0.28453	0.44716	0.81705
	CI->S (-F)	0.28720	0.44864	0.81927

Power Information

Internal switching power(pJ) to CO rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
ADDFX1P4H7H	A	0.00157	0.00170	0.00180
	A	-0.00007	-0.00007	-0.00006
	A	0.00009	0.00009	0.00010
	A	0.00191	0.00204	0.00214
	B	0.00152	0.00164	0.00174
	B	-0.00005	-0.00004	-0.00004
	B	0.00005	0.00005	0.00006
	B	0.00215	0.00227	0.00236
	CI	0.00160	0.00169	0.00176
	CI	-0.00006	-0.00003	-0.00003
	CI	0.00004	0.00005	0.00006
	CI	0.00194	0.00203	0.00209

Internal switching power(pJ) to CO falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
ADDFX1P4H7H	A	0.00188	0.00201	0.00212
	A	0.00011	0.00013	0.00013
	A	-0.00006	-0.00005	-0.00004
	A	0.00157	0.00169	0.00180
	B	0.00198	0.00210	0.00220
	B	0.00007	0.00007	0.00008
	B	-0.00003	-0.00003	-0.00002
	B	0.00136	0.00148	0.00158
	CI	0.00196	0.00204	0.00210
	CI	0.00006	0.00006	0.00007
	CI	-0.00003	-0.00003	-0.00002
	CI	0.00161	0.00169	0.00176

Internal switching power(pJ) to S rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
ADDFX1P4H7H	A	0.00189	0.00201	0.00212
	A	0.00013	0.00014	0.00015
	A	0.00002	0.00003	0.00003
	A	0.00322	0.00331	0.00341
	B	0.00198	0.00210	0.00220
	B	0.00024	0.00024	0.00025
	B	-0.00001	-0.00001	-0.00001
	B	0.00384	0.00394	0.00404
	CI	0.00196	0.00204	0.00210
	CI	0.00020	0.00020	0.00021
	CI	-0.00001	-0.00000	0.00000
	CI	0.00302	0.00313	0.00323

Internal switching power(pJ) to S falling :

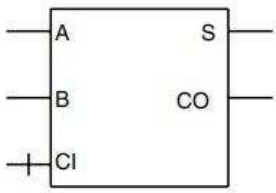
Cell Name	Input	Power(pJ)		
		min	avg	max
ADDFX1P4H7H	A	0.00325	0.00335	0.00347
	A	0.00004	0.00004	0.00006
	A	0.00003	0.00013	0.00013
	A	0.00191	0.00203	0.00214
	B	0.00345	0.00356	0.00367
	B	-0.00000	0.00000	0.00001
	B	0.00021	0.00021	0.00022
	B	0.00215	0.00227	0.00236
	CI	0.00297	0.00306	0.00318
	CI	-0.00000	-0.00000	0.00000
	CI	0.00011	0.00017	0.00019
	CI	0.00194	0.00203	0.00209

ADDFX2H7H

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

Cell Description

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



Truth Table

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

Footprint

Cell Name	Area
ADDFX2H7H	6.72000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)	
	A	B	CI	CO	S
ADDFX2H7H	0.00322	0.00370	0.00260	0.06047	0.06037

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
ADDFX2H7H	0.00000	0.05341	0.05341

Delay Information

Delay(ns) to CO rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
ADDFX2H7H	A->CO (RR)	0.13370	0.33153	0.80731
	B->CO (RR)	0.13884	0.33181	0.80418
	CI->CO (RR)	0.13003	0.32610	0.79858

Delay(ns) to CO falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
ADDFX2H7H	A->CO (FF)	0.19192	0.36036	0.76135
	B->CO (FF)	0.20121	0.36825	0.76908
	CI->CO (FF)	0.18502	0.35904	0.76224

Delay(ns) to S rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
ADDFX2H7H	A->S (-R)	0.35463	0.53212	0.99662
	B->S (-R)	0.35556	0.53636	1.00624
	CI->S (-R)	0.34150	0.52754	1.00096

Delay(ns) to S falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
ADDFX2H7H	A->S (-F)	0.32270	0.47893	0.83796
	B->S (-F)	0.31282	0.47444	0.84103
	CI->S (-F)	0.31704	0.47660	0.84173

Power Information

Internal switching power(pJ) to CO rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
ADDFX2H7H	A	0.00188	0.00202	0.00214
	A	-0.00007	-0.00007	-0.00006
	A	0.00008	0.00010	0.00011
	A	0.00223	0.00236	0.00248
	B	0.00182	0.00196	0.00208
	B	-0.00004	-0.00004	-0.00004
	B	0.00004	0.00005	0.00013
	B	0.00247	0.00260	0.00271
	CI	0.00191	0.00202	0.00211
	CI	-0.00005	-0.00003	-0.00003
	CI	0.00004	0.00005	0.00006
	CI	0.00225	0.00234	0.00243

Internal switching power(pJ) to CO falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
ADDFX2H7H	A	0.00220	0.00233	0.00246
	A	0.00012	0.00013	0.00013
	A	-0.00006	-0.00005	-0.00001
	A	0.00187	0.00200	0.00213
	B	0.00230	0.00243	0.00255
	B	0.00007	0.00007	0.00008
	B	-0.00004	-0.00003	0.00000
	B	0.00166	0.00179	0.00192
	CI	0.00226	0.00235	0.00243
	CI	0.00006	0.00006	0.00007
	CI	-0.00005	-0.00003	-0.00002
	CI	0.00192	0.00201	0.00209

Internal switching power(pJ) to S rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
ADDFX2H7H	A	0.00220	0.00233	0.00246
	A	0.00013	0.00013	0.00015
	A	0.00003	0.00003	0.00004
	A	0.00349	0.00359	0.00371
	B	0.00230	0.00243	0.00255
	B	0.00022	0.00024	0.00026
	B	-0.00000	0.00000	0.00015
	B	0.00410	0.00422	0.00435
	CI	0.00226	0.00235	0.00243
	CI	0.00019	0.00020	0.00020
	CI	0.00000	0.00000	0.00006
	CI	0.00326	0.00337	0.00349

Internal switching power(pJ) to S falling :

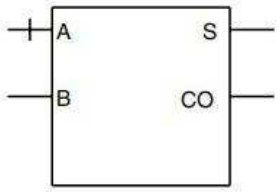
Cell Name	Input	Power(pJ)		
		min	avg	max
ADDFX2H7H	A	0.00357	0.00368	0.00382
	A	0.00000	0.00005	0.00012
	A	0.00011	0.00012	0.00013
	A	0.00223	0.00236	0.00248
	B	0.00379	0.00391	0.00404
	B	-0.00001	0.00001	0.00003
	B	0.00020	0.00021	0.00021
	B	0.00247	0.00260	0.00271
	CI	0.00327	0.00337	0.00350
	CI	-0.00004	-0.00003	-0.00003
	CI	0.00016	0.00017	0.00017
	CI	0.00225	0.00234	0.00243

ADDHX1H7H

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

Cell Description

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



Truth Table

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

Footprint

Cell Name	Area
ADDHX1H7H	5.60000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)	
	A	B	CO	S
ADDHX1H7H	0.00241	0.00385	0.04998	0.04991

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
ADDHX1H7H	0.00000	0.09088	0.09088

Delay Information

Delay(ns) to CO rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
ADDHX1H7H	A->CO (RR)	0.06005	0.22686	0.63159
	B->CO (RR)	0.06327	0.23335	0.64996

Delay(ns) to CO falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
ADDHX1H7H	A->CO (FF)	0.05527	0.20259	0.55547
	B->CO (FF)	0.05960	0.20922	0.56826

Delay(ns) to S rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
ADDHX1H7H	A->S (RR)	!B	0.08885	0.27428	0.73064
	A->S (FR)	B	0.11254	0.28616	0.70127
	B->S (RR)	!A	0.06444	0.23328	0.64411
	B->S (FR)	A	0.08251	0.25716	0.67289

Delay(ns) to S falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
ADDHX1H7H	A->S (FF)	!B	0.09824	0.25915	0.64590
	A->S (RF)	B	0.12017	0.27040	0.61520
	B->S (FF)	!A	0.06334	0.20599	0.54423
	B->S (RF)	A	0.08729	0.23454	0.56685

Power Information

Internal switching power(pJ) to CO rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
ADDHX1H7H	A	0.00136	0.00145	0.00154
	A	-0.00003	-0.00003	-0.00002
	A	0.00002	0.00003	0.00004
	A	0.00207	0.00216	0.00225
	B	0.00108	0.00114	0.00122
	B	-0.00001	-0.00001	0.00000
	B	-0.00001	-0.00001	-0.00001
	B	0.00233	0.00239	0.00247

Internal switching power(pJ) to CO falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
ADDHX1H7H	A	0.00198	0.00206	0.00215
	A	0.00003	0.00003	0.00003
	A	-0.00003	-0.00003	-0.00002
	A	0.00127	0.00135	0.00144
	B	0.00212	0.00219	0.00230
	B	0.00000	0.00001	0.00002
	B	0.00001	0.00001	0.00001
	B	0.00088	0.00095	0.00107

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

Cell Name	Input	When	Power(pJ)		
			min	avg	max
ADDHX1H7H	A	B	0.00198	0.00206	0.00215
	A	B	0.00003	0.00003	0.00003
	A	B	-0.00003	-0.00002	-0.00001
	A	B	0.00127	0.00136	0.00144
	A	!B	0.00142	0.00151	0.00161
	A	!B	0.00005	0.00007	0.00007
	A	!B	-0.00002	-0.00001	0.00004
	A	!B	0.00327	0.00336	0.00346
	B	A	0.00212	0.00219	0.00232
	B	A	0.00001	0.00001	0.00001
	B	A	0.00001	0.00001	0.00001
	B	A	0.00088	0.00095	0.00109
	B	!A	0.00023	0.00036	0.00051
	B	!A	0.00009	0.00010	0.00011
	B	!A	-0.00008	-0.00006	-0.00006
	B	!A	0.00314	0.00327	0.00341

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

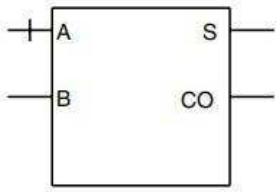
Cell Name	Input	When	Power(pJ)		
			min	avg	max
ADDHX1H7H	A	B	0.00136	0.00145	0.00154
	A	B	-0.00003	-0.00003	-0.00002
	A	B	0.00001	0.00003	0.00004
	A	B	0.00207	0.00216	0.00225
	A	!B	0.00334	0.00343	0.00352
	A	!B	-0.00007	-0.00007	-0.00005
	A	!B	0.00002	0.00002	0.00003
	A	!B	0.00143	0.00152	0.00161
	B	A	0.00108	0.00114	0.00123
	B	A	-0.00001	-0.00001	-0.00001
	B	A	-0.00001	-0.00001	-0.00000
	B	A	0.00233	0.00239	0.00248
	B	!A	0.00293	0.00305	0.00320
	B	!A	-0.00010	-0.00010	-0.00009
	B	!A	0.00006	0.00006	0.00008
	B	!A	0.00006	0.00018	0.00033

ADDHX1P4H7H

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

Cell Description

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



Truth Table

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

Footprint

Cell Name	Area
ADDHX1P4H7H	5.88000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)	
	A	B	CO	S
ADDHX1P4H7H	0.00252	0.00395	0.05288	0.05290

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
ADDHX1P4H7H	0.00000	0.10460	0.10460

Delay Information

Delay(ns) to CO rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
ADDHX1P4H7H	A->CO (RR)	0.05988	0.22716	0.63279
	B->CO (RR)	0.06357	0.23408	0.65174

Delay(ns) to CO falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
ADDHX1P4H7H	A->CO (FF)	0.05534	0.20391	0.56004
	B->CO (FF)	0.06006	0.21094	0.57331

Delay(ns) to S rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
ADDHX1P4H7H	A->S (RR)	!B	0.08419	0.26880	0.72292
	A->S (FR)	B	0.10427	0.27691	0.69039
	B->S (RR)	!A	0.05927	0.22758	0.63668
	B->S (FR)	A	0.07932	0.25391	0.66942

Delay(ns) to S falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
ADDHX1P4H7H	A->S (FF)	!B	0.09183	0.25216	0.63713
	A->S (RF)	B	0.11077	0.26066	0.60615
	B->S (FF)	!A	0.05959	0.20258	0.54173
	B->S (RF)	A	0.08145	0.22895	0.56342

Power Information

Internal switching power(pJ) to CO rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
ADDHX1P4H7H	A	0.00144	0.00153	0.00162
	A	-0.00004	-0.00003	-0.00002
	A	0.00002	0.00003	0.00003
	A	0.00217	0.00226	0.00235
	B	0.00112	0.00118	0.00126
	B	-0.00002	-0.00002	-0.00001
	B	-0.00001	-0.00001	-0.00001
	B	0.00238	0.00244	0.00253

Internal switching power(pJ) to CO falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
ADDHX1P4H7H	A	0.00206	0.00215	0.00223
	A	0.00002	0.00003	0.00004
	A	-0.00003	-0.00003	-0.00002
	A	0.00133	0.00142	0.00150
	B	0.00217	0.00224	0.00236
	B	0.00002	0.00002	0.00002
	B	0.00001	0.00001	0.00001
	B	0.00092	0.00099	0.00111

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

Cell Name	Input	When	Power(pJ)		
			min	avg	max
ADDHX1P4H7H	A	B	0.00205	0.00214	0.00223
	A	B	0.00003	0.00003	0.00004
	A	B	-0.00003	-0.00003	-0.00002
	A	B	0.00133	0.00142	0.00150
	A	!B	0.00150	0.00160	0.00171
	A	!B	0.00005	0.00007	0.00017
	A	!B	-0.00001	-0.00000	0.00003
	A	!B	0.00344	0.00353	0.00364
	B	A	0.00217	0.00224	0.00236
	B	A	0.00002	0.00002	0.00002
	B	A	0.00001	0.00001	0.00001
	B	A	0.00092	0.00099	0.00111
	B	!A	0.00021	0.00034	0.00049
	B	!A	0.00010	0.00011	0.00011
	B	!A	-0.00007	-0.00007	-0.00007
	B	!A	0.00320	0.00333	0.00347

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

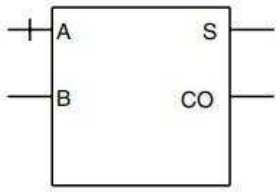
Cell Name	Input	When	Power(pJ)		
			min	avg	max
ADDHX1P4H7H	A	B	0.00144	0.00153	0.00162
	A	B	-0.00003	-0.00003	-0.00003
	A	B	0.00003	0.00003	0.00003
	A	B	0.00217	0.00226	0.00235
	A	!B	0.00349	0.00358	0.00367
	A	!B	-0.00007	-0.00007	-0.00005
	A	!B	0.00002	0.00002	0.00003
	A	!B	0.00150	0.00159	0.00169
	B	A	0.00112	0.00118	0.00126
	B	A	-0.00002	-0.00002	-0.00001
	B	A	-0.00001	-0.00001	-0.00000
	B	A	0.00238	0.00244	0.00252
	B	!A	0.00302	0.00314	0.00328
	B	!A	-0.00011	-0.00010	-0.00010
	B	!A	0.00007	0.00007	0.00007
	B	!A	0.00007	0.00019	0.00035

ADDHX2H7H

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

Cell Description

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



Truth Table

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

Footprint

Cell Name	Area
ADDHX2H7H	7.00000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)	
	A	B	CO	S
ADDHX2H7H	0.00295	0.00416	0.05691	0.05685

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
ADDHX2H7H	0.00000	0.11610	0.11610

Delay Information

Delay(ns) to CO rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
ADDHX2H7H	A->CO (RR)	0.05972	0.22770	0.63488
	B->CO (RR)	0.06375	0.23484	0.65355

Delay(ns) to CO falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
ADDHX2H7H	A->CO (FF)	0.05531	0.20441	0.56183
	B->CO (FF)	0.06030	0.21167	0.57508

Delay(ns) to S rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
ADDHX2H7H	A->S (RR)	!B	0.07296	0.24845	0.67823
	A->S (FR)	B	0.09814	0.26904	0.67834
	B->S (RR)	!A	0.05662	0.22410	0.63097
	B->S (FR)	A	0.07738	0.25284	0.67307

Delay(ns) to S falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
ADDHX2H7H	A->S (FF)	!B	0.08106	0.23737	0.61229
	A->S (RF)	B	0.10307	0.24615	0.57327
	B->S (FF)	!A	0.05252	0.19350	0.52828
	B->S (RF)	A	0.08268	0.23140	0.56941

Power Information

Internal switching power(pJ) to CO rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
ADDHX2H7H	A	0.00148	0.00158	0.00168
	A	-0.00003	-0.00003	-0.00002
	A	0.00002	0.00002	0.00003
	A	0.00241	0.00251	0.00261
	B	0.00122	0.00129	0.00137
	B	-0.00002	-0.00002	-0.00002
	B	-0.00001	-0.00001	-0.00000
	B	0.00256	0.00263	0.00271

Internal switching power(pJ) to CO falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
ADDHX2H7H	A	0.00234	0.00244	0.00253
	A	0.00002	0.00003	0.00004
	A	-0.00003	-0.00002	-0.00001
	A	0.00141	0.00151	0.00160
	B	0.00235	0.00243	0.00256
	B	0.00002	0.00002	0.00003
	B	0.00001	0.00001	0.00001
	B	0.00103	0.00110	0.00123

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

Cell Name	Input	When	Power(pJ)		
			min	avg	max
ADDHX2H7H	A	B	0.00234	0.00244	0.00253
	A	B	0.00003	0.00003	0.00003
	A	B	-0.00002	-0.00002	-0.00002
	A	B	0.00141	0.00151	0.00160
	A	!B	0.00170	0.00181	0.00194
	A	!B	0.00009	0.00010	0.00011
	A	!B	-0.00005	-0.00003	0.00001
	A	!B	0.00405	0.00416	0.00429
	B	A	0.00235	0.00243	0.00257
	B	A	0.00002	0.00002	0.00002
	B	A	0.00001	0.00001	0.00001
	B	A	0.00103	0.00110	0.00124
	B	!A	0.00029	0.00042	0.00059
	B	!A	0.00009	0.00012	0.00012
	B	!A	-0.00008	-0.00008	-0.00007
	B	!A	0.00343	0.00356	0.00371

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

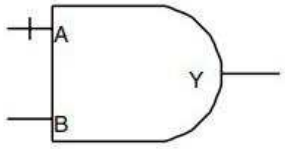
Cell Name	Input	When	Power(pJ)		
			min	avg	max
ADDHX2H7H	A	B	0.00148	0.00158	0.00168
	A	B	-0.00003	-0.00003	-0.00003
	A	B	0.00002	0.00002	0.00003
	A	B	0.00241	0.00251	0.00261
	A	!B	0.00391	0.00402	0.00413
	A	!B	-0.00010	-0.00010	-0.00008
	A	!B	0.00004	0.00005	0.00005
	A	!B	0.00151	0.00161	0.00173
	B	A	0.00122	0.00129	0.00137
	B	A	-0.00002	-0.00002	-0.00001
	B	A	-0.00001	-0.00001	-0.00001
	B	A	0.00256	0.00263	0.00272
	B	!A	0.00317	0.00330	0.00344
	B	!A	-0.00012	-0.00012	-0.00009
	B	!A	0.00007	0.00008	0.00008
	B	!A	0.00006	0.00019	0.00035

AND2X0P5H7H

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

Cell Description

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



Truth Table

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

Footprint

Cell Name	Area
AND2X0P5H7H	1.68000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
AND2X0P5H7H	0.00091	0.00087	0.03030

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AND2X0P5H7H	0.00000	0.01361	0.01781

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND2X0P5H7H	A->Y (RR)	0.07432	0.24219	0.65515
	B->Y (RR)	0.07010	0.23560	0.63743

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND2X0P5H7H	A->Y (FF)	0.05970	0.19552	0.51933
	B->Y (FF)	0.05511	0.18824	0.50449

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND2X0P5H7H	A	0.00037	0.00044	0.00051
	A	0.00003	0.00003	0.00003
	A	-0.00004	-0.00004	-0.00004
	A	0.00129	0.00136	0.00142
	B	0.00038	0.00044	0.00050
	B	0.00003	0.00003	0.00003
	B	-0.00000	0.00000	0.00000
	B	0.00112	0.00119	0.00125

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND2X0P5H7H	A	0.00133	0.00139	0.00145
	A	-0.00003	-0.00003	-0.00003
	A	0.00004	0.00004	0.00004
	A	0.00044	0.00050	0.00056
	B	0.00118	0.00124	0.00130
	B	-0.00003	-0.00003	-0.00003
	B	-0.00000	0.00000	0.00000
	B	0.00043	0.00049	0.00055

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND2X0P5H7H	(!B * !Y)	-0.00021	-0.00021	-0.00021
	(!B * !Y)	-0.00001	-0.00001	-0.00001
	(!B * !Y)	0.00001	0.00001	0.00001
	(!B * !Y)	0.00019	0.00019	0.00019

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND2X0P5H7H	(!B * !Y)	0.00021	0.00021	0.00022
	(!B * !Y)	0.00001	0.00001	0.00001
	(!B * !Y)	-0.00001	-0.00001	-0.00001
	(!B * !Y)	-0.00019	-0.00018	-0.00017

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND2X0P5H7H	(!A * !Y)	-0.00023	-0.00023	-0.00023
	(!A * !Y)	-0.00001	-0.00001	-0.00001
	(!A * !Y)	0.00002	0.00003	0.00003
	(!A * !Y)	0.00008	0.00009	0.00009

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

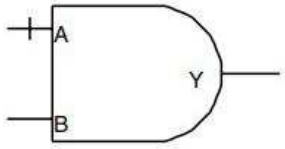
Cell Name	When	Power(pJ)		
		min	avg	max
AND2X0P5H7H	(!A * !Y)	0.00023	0.00023	0.00023
	(!A * !Y)	0.00001	0.00001	0.00001
	(!A * !Y)	-0.00002	-0.00002	-0.00002
	(!A * !Y)	-0.00009	-0.00009	-0.00008

AND2X0P7H7H

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

Cell Description

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



Truth Table

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

Footprint

Cell Name	Area
AND2X0P7H7H	1.68000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
AND2X0P7H7H	0.00090	0.00086	0.03449

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AND2X0P7H7H	0.00000	0.01388	0.01986

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND2X0P7H7H	A->Y (RR)	0.07327	0.24200	0.65681
	B->Y (RR)	0.06908	0.23555	0.64015

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND2X0P7H7H	A->Y (FF)	0.05929	0.19653	0.52378
	B->Y (FF)	0.05470	0.18927	0.50895

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND2X0P7H7H	A	0.00040	0.00047	0.00054
	A	0.00002	0.00003	0.00003
	A	-0.00003	-0.00003	-0.00003
	A	0.00131	0.00138	0.00145
	B	0.00041	0.00047	0.00054
	B	0.00002	0.00003	0.00003
	B	0.00000	0.00000	0.00001
	B	0.00115	0.00121	0.00128

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND2X0P7H7H	A	0.00135	0.00141	0.00147
	A	-0.00003	-0.00003	-0.00002
	A	0.00003	0.00003	0.00003
	A	0.00046	0.00053	0.00059
	B	0.00120	0.00126	0.00132
	B	-0.00003	-0.00003	-0.00002
	B	-0.00000	-0.00000	-0.00000
	B	0.00046	0.00052	0.00058

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND2X0P7H7H	(!B * !Y)	-0.00021	-0.00021	-0.00020
	(!B * !Y)	-0.00001	-0.00001	-0.00001
	(!B * !Y)	0.00001	0.00001	0.00001
	(!B * !Y)	0.00019	0.00019	0.00019

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND2X0P7H7H	(!B * !Y)	0.00021	0.00021	0.00022
	(!B * !Y)	0.00001	0.00001	0.00001
	(!B * !Y)	-0.00001	-0.00001	-0.00001
	(!B * !Y)	-0.00019	-0.00018	-0.00017

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND2X0P7H7H	(!A * !Y)	-0.00023	-0.00023	-0.00023
	(!A * !Y)	-0.00001	-0.00001	-0.00001
	(!A * !Y)	0.00002	0.00002	0.00003
	(!A * !Y)	0.00009	0.00009	0.00009

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

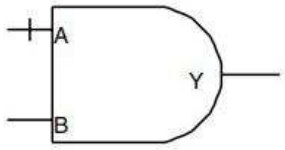
Cell Name	When	Power(pJ)		
		min	avg	max
AND2X0P7H7H	(!A * !Y)	0.00023	0.00023	0.00023
	(!A * !Y)	0.00001	0.00001	0.00001
	(!A * !Y)	-0.00002	-0.00002	-0.00002
	(!A * !Y)	-0.00009	-0.00009	-0.00009

AND2X12H7H

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

Cell Description

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



Truth Table

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

Footprint

Cell Name	Area
AND2X12H7H	5.88000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
AND2X12H7H	0.00300	0.00357	0.34423

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AND2X12H7H	0.00000	0.11422	0.13499

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND2X12H7H	A->Y (RR)	0.06622	0.24702	0.68526
	B->Y (RR)	0.06342	0.23819	0.65750

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND2X12H7H	A->Y (FF)	0.05994	0.21115	0.56923
	B->Y (FF)	0.05652	0.20496	0.55629

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND2X12H7H	A	0.00388	0.00432	0.00473
	A	-0.00001	-0.00001	-0.00000
	A	-0.00009	-0.00009	-0.00008
	A	0.00727	0.00771	0.00811
	B	0.00380	0.00423	0.00471
	B	-0.00002	-0.00001	0.00000
	B	0.00012	0.00013	0.00013
	B	0.00646	0.00692	0.00738

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND2X12H7H	A	0.00746	0.00790	0.00828
	A	0.00001	0.00001	0.00001
	A	0.00008	0.00009	0.00009
	A	0.00424	0.00467	0.00507
	B	0.00678	0.00728	0.00771
	B	0.00000	0.00001	0.00003
	B	-0.00013	-0.00012	-0.00012
	B	0.00411	0.00459	0.00504

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND2X12H7H	(!B * !Y)	-0.00062	-0.00062	-0.00061
	(!B * !Y)	-0.00004	-0.00004	-0.00004
	(!B * !Y)	0.00006	0.00007	0.00009
	(!B * !Y)	0.00077	0.00079	0.00079

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND2X12H7H	(!B * !Y)	0.00062	0.00063	0.00065
	(!B * !Y)	0.00004	0.00004	0.00004
	(!B * !Y)	-0.00009	-0.00007	-0.00006
	(!B * !Y)	-0.00079	-0.00074	-0.00067

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND2X12H7H	(!A * !Y)	-0.00107	-0.00106	-0.00105
	(!A * !Y)	-0.00004	-0.00004	-0.00004
	(!A * !Y)	0.00013	0.00014	0.00016
	(!A * !Y)	0.00020	0.00023	0.00024

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

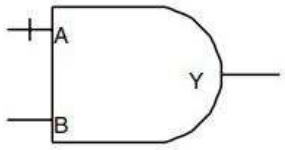
Cell Name	When	Power(pJ)		
		min	avg	max
AND2X12H7H	(!A * !Y)	0.00105	0.00106	0.00107
	(!A * !Y)	0.00004	0.00004	0.00004
	(!A * !Y)	-0.00013	-0.00013	-0.00012
	(!A * !Y)	-0.00023	-0.00022	-0.00020

AND2X16H7H

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

Cell Description

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



Truth Table

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

Footprint

Cell Name	Area
AND2X16H7H	6.72000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
AND2X16H7H	0.00409	0.00425	0.44596

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AND2X16H7H	0.00000	0.15955	0.23744

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND2X16H7H	A->Y (RR)	0.06168	0.24110	0.67575
	B->Y (RR)	0.05822	0.23339	0.65475

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND2X16H7H	A->Y (FF)	0.05565	0.20694	0.56502
	B->Y (FF)	0.05159	0.20011	0.55129

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND2X16H7H	A	0.00456	0.00509	0.00558
	A	-0.00002	-0.00002	-0.00001
	A	-0.00012	-0.00012	-0.00011
	A	0.00897	0.00951	0.00999
	B	0.00448	0.00501	0.00556
	B	-0.00002	-0.00002	-0.00000
	B	0.00015	0.00016	0.00018
	B	0.00769	0.00823	0.00877

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND2X16H7H	A	0.00904	0.00959	0.01007
	A	0.00002	0.00002	0.00002
	A	0.00011	0.00012	0.00012
	A	0.00486	0.00538	0.00588
	B	0.00807	0.00866	0.00916
	B	0.00000	0.00002	0.00003
	B	-0.00016	-0.00016	-0.00013
	B	0.00484	0.00542	0.00595

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND2X16H7H	(!B * !Y)	-0.00083	-0.00083	-0.00082
	(!B * !Y)	-0.00005	-0.00005	-0.00005
	(!B * !Y)	0.00008	0.00009	0.00009
	(!B * !Y)	0.00108	0.00109	0.00110

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND2X16H7H	(!B * !Y)	0.00084	0.00085	0.00088
	(!B * !Y)	0.00005	0.00005	0.00005
	(!B * !Y)	-0.00009	-0.00009	-0.00008
	(!B * !Y)	-0.00109	-0.00102	-0.00092

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND2X16H7H	(!A * !Y)	-0.00130	-0.00129	-0.00128
	(!A * !Y)	-0.00005	-0.00005	-0.00005
	(!A * !Y)	0.00012	0.00015	0.00016
	(!A * !Y)	0.00026	0.00027	0.00030

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

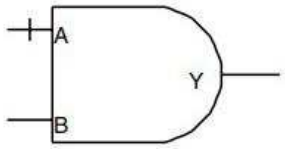
Cell Name	When	Power(pJ)		
		min	avg	max
AND2X16H7H	(!A * !Y)	0.00128	0.00130	0.00131
	(!A * !Y)	0.00005	0.00005	0.00005
	(!A * !Y)	-0.00015	-0.00015	-0.00012
	(!A * !Y)	-0.00026	-0.00026	-0.00026

AND2X1H7H

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

Cell Description

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



Truth Table

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

Footprint

Cell Name	Area
AND2X1H7H	1.68000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
AND2X1H7H	0.00089	0.00083	0.04130

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AND2X1H7H	0.00000	0.01477	0.02426

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND2X1H7H	A->Y (RR)	0.06760	0.23624	0.65055
	B->Y (RR)	0.06341	0.22956	0.63308

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND2X1H7H	A->Y (FF)	0.05548	0.19523	0.52900
	B->Y (FF)	0.05087	0.18780	0.51413

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND2X1H7H	A	0.00038	0.00044	0.00050
	A	0.00002	0.00002	0.00002
	A	-0.00003	-0.00003	-0.00003
	A	0.00127	0.00133	0.00139
	B	0.00038	0.00044	0.00050
	B	0.00002	0.00002	0.00002
	B	0.00000	0.00001	0.00001
	B	0.00108	0.00114	0.00120

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND2X1H7H	A	0.00127	0.00133	0.00139
	A	-0.00002	-0.00002	-0.00002
	A	0.00003	0.00003	0.00003
	A	0.00040	0.00046	0.00052
	B	0.00112	0.00118	0.00123
	B	-0.00002	-0.00002	-0.00002
	B	-0.00001	-0.00001	-0.00000
	B	0.00042	0.00048	0.00053

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND2X1H7H	(!B * !Y)	-0.00020	-0.00020	-0.00020
	(!B * !Y)	-0.00001	-0.00001	-0.00001
	(!B * !Y)	0.00001	0.00001	0.00001
	(!B * !Y)	0.00019	0.00019	0.00019

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND2X1H7H	(!B * !Y)	0.00020	0.00021	0.00021
	(!B * !Y)	0.00001	0.00001	0.00001
	(!B * !Y)	-0.00001	-0.00001	-0.00001
	(!B * !Y)	-0.00019	-0.00018	-0.00016

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND2X1H7H	(!A * !Y)	-0.00023	-0.00023	-0.00023
	(!A * !Y)	-0.00001	-0.00001	-0.00001
	(!A * !Y)	0.00002	0.00003	0.00003
	(!A * !Y)	0.00006	0.00006	0.00006

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

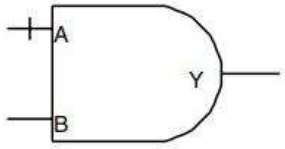
Cell Name	When	Power(pJ)		
		min	avg	max
AND2X1H7H	(!A * !Y)	0.00023	0.00023	0.00023
	(!A * !Y)	0.00001	0.00001	0.00001
	(!A * !Y)	-0.00002	-0.00002	-0.00002
	(!A * !Y)	-0.00006	-0.00006	-0.00006

AND2X1P4H7H

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

Cell Description

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



Truth Table

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

Footprint

Cell Name	Area
AND2X1P4H7H	1.68000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
AND2X1P4H7H	0.00090	0.00086	0.04701

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AND2X1P4H7H	0.00000	0.01624	0.02967

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND2X1P4H7H	A->Y (RR)	0.07223	0.24337	0.66366
	B->Y (RR)	0.06794	0.23722	0.64773

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND2X1P4H7H	A->Y (FF)	0.05949	0.20275	0.54504
	B->Y (FF)	0.05489	0.19564	0.53122

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND2X1P4H7H	A	0.00049	0.00056	0.00064
	A	0.00001	0.00001	0.00002
	A	-0.00003	-0.00003	-0.00002
	A	0.00138	0.00145	0.00153
	B	0.00050	0.00056	0.00064
	B	0.00001	0.00001	0.00002
	B	0.00001	0.00001	0.00003
	B	0.00121	0.00128	0.00135

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND2X1P4H7H	A	0.00140	0.00148	0.00155
	A	-0.00001	-0.00001	-0.00001
	A	0.00002	0.00003	0.00003
	A	0.00054	0.00061	0.00068
	B	0.00125	0.00133	0.00139
	B	-0.00001	-0.00001	-0.00001
	B	-0.00001	-0.00001	-0.00001
	B	0.00053	0.00061	0.00067

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND2X1P4H7H	(!B * !Y)	-0.00021	-0.00021	-0.00021
	(!B * !Y)	-0.00001	-0.00001	-0.00001
	(!B * !Y)	0.00001	0.00001	0.00001
	(!B * !Y)	0.00018	0.00018	0.00018

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND2X1P4H7H	(!B * !Y)	0.00021	0.00021	0.00022
	(!B * !Y)	0.00001	0.00001	0.00001
	(!B * !Y)	-0.00001	-0.00001	-0.00001
	(!B * !Y)	-0.00018	-0.00017	-0.00016

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND2X1P4H7H	(!A * !Y)	-0.00023	-0.00023	-0.00023
	(!A * !Y)	-0.00001	-0.00001	-0.00001
	(!A * !Y)	0.00002	0.00002	0.00003
	(!A * !Y)	0.00009	0.00009	0.00009

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

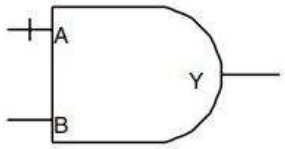
Cell Name	When	Power(pJ)		
		min	avg	max
AND2X1P4H7H	(!A * !Y)	0.00023	0.00023	0.00023
	(!A * !Y)	0.00001	0.00001	0.00001
	(!A * !Y)	-0.00002	-0.00002	-0.00002
	(!A * !Y)	-0.00009	-0.00009	-0.00008

AND2X2H7H

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

Cell Description

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



Truth Table

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

Footprint

Cell Name	Area
AND2X2H7H	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
AND2X2H7H	0.00087	0.00084	0.06058

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AND2X2H7H	0.00000	0.02075	0.02105

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND2X2H7H	A->Y (RR)	0.08321	0.25989	0.69231
	B->Y (RR)	0.07916	0.25504	0.68083

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND2X2H7H	A->Y (FF)	0.06758	0.21244	0.55756
	B->Y (FF)	0.06315	0.20599	0.54564

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND2X2H7H	A	0.00078	0.00087	0.00098
	A	0.00001	0.00001	0.00001
	A	-0.00002	-0.00002	-0.00001
	A	0.00163	0.00173	0.00183
	B	0.00078	0.00087	0.00098
	B	0.00001	0.00001	0.00001
	B	0.00002	0.00002	0.00002
	B	0.00147	0.00156	0.00166

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND2X2H7H	A	0.00174	0.00184	0.00193
	A	-0.00001	-0.00001	0.00001
	A	0.00001	0.00002	0.00002
	A	0.00091	0.00101	0.00110
	B	0.00159	0.00169	0.00178
	B	-0.00001	-0.00001	-0.00001
	B	-0.00002	-0.00002	-0.00002
	B	0.00090	0.00100	0.00109

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND2X2H7H	(!B * !Y)	-0.00020	-0.00020	-0.00020
	(!B * !Y)	-0.00001	-0.00001	-0.00001
	(!B * !Y)	0.00000	0.00001	0.00001
	(!B * !Y)	0.00018	0.00018	0.00019

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND2X2H7H	(!B * !Y)	0.00020	0.00020	0.00021
	(!B * !Y)	0.00001	0.00001	0.00001
	(!B * !Y)	-0.00001	-0.00001	-0.00000
	(!B * !Y)	-0.00018	-0.00017	-0.00016

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND2X2H7H	(!A * !Y)	-0.00023	-0.00023	-0.00023
	(!A * !Y)	-0.00001	-0.00001	-0.00001
	(!A * !Y)	0.00002	0.00003	0.00003
	(!A * !Y)	0.00007	0.00008	0.00008

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

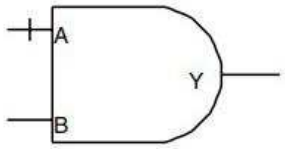
Cell Name	When	Power(pJ)		
		min	avg	max
AND2X2H7H	(!A * !Y)	0.00023	0.00023	0.00023
	(!A * !Y)	0.00001	0.00001	0.00001
	(!A * !Y)	-0.00003	-0.00002	-0.00002
	(!A * !Y)	-0.00008	-0.00008	-0.00007

AND2X3H7H

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

Cell Description

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



Truth Table

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

Footprint

Cell Name	Area
AND2X3H7H	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
AND2X3H7H	0.00087	0.00085	0.08591

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AND2X3H7H	0.00000	0.02420	0.03839

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND2X3H7H	A->Y (RR)	0.08550	0.26520	0.70299
	B->Y (RR)	0.08144	0.26083	0.69366

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND2X3H7H	A->Y (FF)	0.07048	0.22159	0.58150
	B->Y (FF)	0.06608	0.21527	0.57007

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND2X3H7H	A	0.00097	0.00108	0.00120
	A	-0.00002	-0.00001	-0.00001
	A	0.00000	0.00000	0.00001
	A	0.00178	0.00189	0.00201
	B	0.00098	0.00108	0.00119
	B	-0.00002	-0.00001	-0.00001
	B	0.00004	0.00004	0.00005
	B	0.00162	0.00173	0.00184

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND2X3H7H	A	0.00187	0.00199	0.00209
	A	0.00001	0.00002	0.00002
	A	-0.00000	-0.00000	0.00000
	A	0.00109	0.00120	0.00131
	B	0.00173	0.00184	0.00194
	B	0.00001	0.00002	0.00002
	B	-0.00004	-0.00004	-0.00003
	B	0.00107	0.00119	0.00130

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND2X3H7H	(!B * !Y)	-0.00020	-0.00020	-0.00020
	(!B * !Y)	-0.00001	-0.00001	-0.00001
	(!B * !Y)	0.00001	0.00001	0.00002
	(!B * !Y)	0.00016	0.00017	0.00018

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND2X3H7H	(!B * !Y)	0.00020	0.00021	0.00021
	(!B * !Y)	0.00001	0.00001	0.00001
	(!B * !Y)	-0.00002	-0.00001	-0.00001
	(!B * !Y)	-0.00017	-0.00017	-0.00015

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND2X3H7H	(!A * !Y)	-0.00023	-0.00023	-0.00023
	(!A * !Y)	-0.00001	-0.00001	-0.00001
	(!A * !Y)	0.00002	0.00002	0.00003
	(!A * !Y)	0.00008	0.00008	0.00009

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

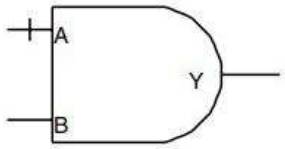
Cell Name	When	Power(pJ)		
		min	avg	max
AND2X3H7H	(!A * !Y)	0.00023	0.00023	0.00023
	(!A * !Y)	0.00001	0.00001	0.00001
	(!A * !Y)	-0.00003	-0.00002	-0.00002
	(!A * !Y)	-0.00008	-0.00008	-0.00008

AND2X4H7H

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

Cell Description

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



Truth Table

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

Footprint

Cell Name	Area
AND2X4H7H	3.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
AND2X4H7H	0.00145	0.00151	0.11706

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AND2X4H7H	0.00000	0.03271	0.03908

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND2X4H7H	A->Y (RR)	0.06988	0.24604	0.67408
	B->Y (RR)	0.06587	0.23888	0.65514

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND2X4H7H	A->Y (FF)	0.07120	0.22438	0.59097
	B->Y (FF)	0.06526	0.21540	0.57383

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND2X4H7H	A	0.00138	0.00154	0.00169
	A	-0.00000	-0.00000	0.00000
	A	-0.00003	-0.00003	-0.00003
	A	0.00291	0.00307	0.00321
	B	0.00135	0.00151	0.00168
	B	-0.00000	-0.00000	0.00000
	B	0.00004	0.00004	0.00005
	B	0.00249	0.00266	0.00282

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND2X4H7H	A	0.00294	0.00311	0.00327
	A	0.00000	0.00000	0.00002
	A	0.00003	0.00003	0.00003
	A	0.00148	0.00165	0.00181
	B	0.00261	0.00279	0.00295
	B	0.00000	0.00000	0.00001
	B	-0.00004	-0.00004	-0.00003
	B	0.00146	0.00163	0.00181

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND2X4H7H	(!B * !Y)	-0.00026	-0.00026	-0.00026
	(!B * !Y)	-0.00001	-0.00001	-0.00001
	(!B * !Y)	0.00002	0.00003	0.00004
	(!B * !Y)	0.00037	0.00039	0.00040

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND2X4H7H	(!B * !Y)	0.00026	0.00027	0.00029
	(!B * !Y)	0.00001	0.00001	0.00001
	(!B * !Y)	-0.00003	-0.00003	-0.00002
	(!B * !Y)	-0.00039	-0.00037	-0.00034

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND2X4H7H	(!A * !Y)	-0.00043	-0.00043	-0.00042
	(!A * !Y)	-0.00001	-0.00001	-0.00001
	(!A * !Y)	0.00004	0.00005	0.00006
	(!A * !Y)	0.00010	0.00011	0.00012

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

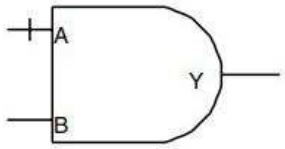
Cell Name	When	Power(pJ)		
		min	avg	max
AND2X4H7H	(!A * !Y)	0.00043	0.00043	0.00043
	(!A * !Y)	0.00001	0.00001	0.00001
	(!A * !Y)	-0.00004	-0.00004	-0.00004
	(!A * !Y)	-0.00012	-0.00011	-0.00010

AND2X6H7H

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

Cell Description

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



Truth Table

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

Footprint

Cell Name	Area
AND2X6H7H	3.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
AND2X6H7H	0.00179	0.00165	0.17240

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AND2X6H7H	0.00000	0.04839	0.07678

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND2X6H7H	A->Y (RR)	0.08019	0.26097	0.69936
	B->Y (RR)	0.07678	0.25684	0.68922

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND2X6H7H	A->Y (FF)	0.06628	0.21788	0.57736
	B->Y (FF)	0.06232	0.21186	0.56607

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND2X6H7H	A	0.00189	0.00211	0.00233
	A	-0.00003	-0.00003	0.00000
	A	0.00000	0.00000	0.00000
	A	0.00352	0.00374	0.00395
	B	0.00189	0.00209	0.00232
	B	-0.00003	-0.00003	-0.00002
	B	0.00007	0.00008	0.00008
	B	0.00309	0.00330	0.00352

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND2X6H7H	A	0.00360	0.00382	0.00402
	A	0.00000	0.00003	0.00003
	A	-0.00000	-0.00000	0.00000
	A	0.00203	0.00224	0.00244
	B	0.00333	0.00355	0.00375
	B	0.00002	0.00003	0.00004
	B	-0.00008	-0.00008	-0.00006
	B	0.00212	0.00234	0.00255

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND2X6H7H	(!B * !Y)	-0.00038	-0.00037	-0.00037
	(!B * !Y)	-0.00002	-0.00002	-0.00002
	(!B * !Y)	0.00002	0.00003	0.00005
	(!B * !Y)	0.00039	0.00042	0.00042

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND2X6H7H	(!B * !Y)	0.00038	0.00038	0.00040
	(!B * !Y)	0.00002	0.00002	0.00002
	(!B * !Y)	-0.00003	-0.00003	-0.00002
	(!B * !Y)	-0.00042	-0.00040	-0.00038

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND2X6H7H	(!A * !Y)	-0.00046	-0.00046	-0.00045
	(!A * !Y)	-0.00002	-0.00002	-0.00002
	(!A * !Y)	0.00003	0.00005	0.00005
	(!A * !Y)	0.00009	0.00010	0.00011

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

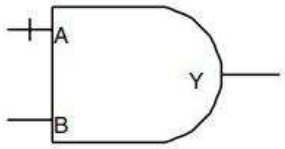
Cell Name	When	Power(pJ)		
		min	avg	max
AND2X6H7H	(!A * !Y)	0.00045	0.00046	0.00046
	(!A * !Y)	0.00002	0.00002	0.00002
	(!A * !Y)	-0.00005	-0.00005	-0.00003
	(!A * !Y)	-0.00009	-0.00009	-0.00009

AND2X8H7H

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

Cell Description

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



Truth Table

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

Footprint

Cell Name	Area
AND2X8H7H	4.20000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
AND2X8H7H	0.00242	0.00246	0.22853

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AND2X8H7H	0.00000	0.07259	0.09831

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND2X8H7H	A->Y (RR)	0.06435	0.24172	0.67160
	B->Y (RR)	0.06062	0.23353	0.64854

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND2X8H7H	A->Y (FF)	0.06183	0.21366	0.57481
	B->Y (FF)	0.05693	0.20576	0.55896

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND2X8H7H	A	0.00250	0.00279	0.00306
	A	-0.00001	-0.00001	0.00001
	A	-0.00007	-0.00006	-0.00006
	A	0.00510	0.00540	0.00566
	B	0.00246	0.00274	0.00305
	B	-0.00001	-0.00001	-0.00000
	B	0.00008	0.00008	0.00008
	B	0.00434	0.00464	0.00493

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND2X8H7H	A	0.00507	0.00537	0.00565
	A	0.00001	0.00001	0.00001
	A	0.00006	0.00006	0.00007
	A	0.00261	0.00291	0.00319
	B	0.00450	0.00482	0.00511
	B	0.00000	0.00001	0.00002
	B	-0.00008	-0.00008	-0.00008
	B	0.00261	0.00293	0.00323

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND2X8H7H	(!B * !Y)	-0.00046	-0.00046	-0.00046
	(!B * !Y)	-0.00003	-0.00003	-0.00003
	(!B * !Y)	0.00003	0.00004	0.00005
	(!B * !Y)	0.00065	0.00066	0.00066

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND2X8H7H	(!B * !Y)	0.00046	0.00047	0.00050
	(!B * !Y)	0.00003	0.00003	0.00003
	(!B * !Y)	-0.00005	-0.00004	-0.00003
	(!B * !Y)	-0.00065	-0.00061	-0.00056

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND2X8H7H	(!A * !Y)	-0.00073	-0.00072	-0.00072
	(!A * !Y)	-0.00003	-0.00003	-0.00002
	(!A * !Y)	0.00009	0.00009	0.00012
	(!A * !Y)	0.00014	0.00016	0.00017

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

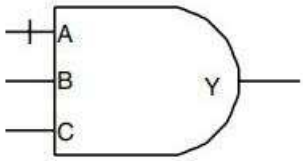
Cell Name	When	Power(pJ)		
		min	avg	max
AND2X8H7H	(!A * !Y)	0.00072	0.00073	0.00073
	(!A * !Y)	0.00002	0.00003	0.00003
	(!A * !Y)	-0.00009	-0.00008	-0.00008
	(!A * !Y)	-0.00016	-0.00016	-0.00014

AND3X0P5H7H

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

Cell Description

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



Truth Table

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

Footprint

Cell Name	Area
AND3X0P5H7H	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
AND3X0P5H7H	0.00084	0.00079	0.00087	0.03014

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AND3X0P5H7H	0.00000	0.01394	0.02787

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND3X0P5H7H	A->Y (RR)	0.10248	0.27073	0.68626
	B->Y (RR)	0.09815	0.27046	0.69292
	C->Y (RR)	0.09493	0.26325	0.67412

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND3X0P5H7H	A->Y (FF)	0.07470	0.21725	0.55971
	B->Y (FF)	0.06961	0.20999	0.54585
	C->Y (FF)	0.06648	0.20400	0.53316

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND3X0P5H7H	A	0.00042	0.00048	0.00054
	A	0.00004	0.00004	0.00005
	A	-0.00007	-0.00007	-0.00007
	A	0.00153	0.00159	0.00165
	B	0.00043	0.00049	0.00054
	B	0.00004	0.00004	0.00004
	B	-0.00004	-0.00004	-0.00004
	B	0.00134	0.00139	0.00144
	C	0.00041	0.00047	0.00054
	C	0.00004	0.00004	0.00004
	C	-0.00000	0.00000	0.00000
	C	0.00119	0.00126	0.00132

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND3X0P5H7H	A	0.00148	0.00154	0.00159
	A	-0.00004	-0.00004	-0.00003
	A	0.00007	0.00007	0.00007
	A	0.00042	0.00048	0.00054
	B	0.00134	0.00139	0.00145
	B	-0.00004	-0.00004	-0.00004
	B	0.00004	0.00004	0.00004
	B	0.00046	0.00051	0.00057
	C	0.00123	0.00129	0.00135
	C	-0.00004	-0.00004	-0.00004
	C	-0.00000	0.00000	0.00000
	C	0.00044	0.00050	0.00057

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X0P5H7H	(B * !C * !Y)	-0.00016	-0.00016	-0.00016
	(B * !C * !Y)	-0.00001	-0.00001	-0.00001
	(B * !C * !Y)	0.00001	0.00001	0.00001
	(B * !C * !Y)	0.00020	0.00020	0.00021
	(!B * C * !Y)	-0.00016	-0.00016	-0.00016
	(!B * C * !Y)	-0.00001	-0.00001	-0.00001
	(!B * C * !Y)	0.00001	0.00001	0.00001
	(!B * C * !Y)	0.00021	0.00021	0.00022
	(!B * !C * !Y)	-0.00016	-0.00016	-0.00016
	(!B * !C * !Y)	-0.00001	-0.00001	-0.00001
	(!B * !C * !Y)	0.00001	0.00001	0.00001
	(!B * !C * !Y)	0.00020	0.00021	0.00021

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X0P5H7H	(B * !C * !Y)	0.00016	0.00016	0.00016
	(B * !C * !Y)	0.00001	0.00001	0.00001
	(B * !C * !Y)	-0.00001	-0.00001	-0.00001
	(B * !C * !Y)	-0.00020	-0.00019	-0.00018
	(!B * C * !Y)	0.00016	0.00016	0.00016
	(!B * C * !Y)	0.00001	0.00001	0.00001
	(!B * C * !Y)	-0.00001	-0.00001	-0.00001
	(!B * C * !Y)	-0.00021	-0.00020	-0.00019
	(!B * !C * !Y)	0.00016	0.00016	0.00016
	(!B * !C * !Y)	0.00001	0.00001	0.00001
	(!B * !C * !Y)	-0.00001	-0.00001	-0.00001
	(!B * !C * !Y)	-0.00021	-0.00020	-0.00019

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X0P5H7H	(A * !C * !Y)	-0.00013	-0.00013	-0.00012
	(A * !C * !Y)	-0.00001	-0.00001	-0.00001
	(A * !C * !Y)	0.00001	0.00001	0.00002
	(A * !C * !Y)	0.00018	0.00019	0.00019
	(!A * C * !Y)	-0.00013	-0.00013	-0.00013
	(!A * C * !Y)	-0.00001	-0.00001	-0.00001
	(!A * C * !Y)	0.00004	0.00004	0.00004
	(!A * C * !Y)	0.00006	0.00007	0.00007
	(!A * !C * !Y)	-0.00013	-0.00013	-0.00013
	(!A * !C * !Y)	-0.00001	-0.00001	-0.00001
	(!A * !C * !Y)	0.00005	0.00005	0.00005
	(!A * !C * !Y)	0.00007	0.00007	0.00007

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X0P5H7H	(A * !C * !Y)	0.00013	0.00013	0.00014
	(A * !C * !Y)	0.00001	0.00001	0.00001
	(A * !C * !Y)	-0.00002	-0.00001	-0.00001
	(A * !C * !Y)	-0.00019	-0.00018	-0.00016
	(!A * C * !Y)	0.00013	0.00013	0.00013
	(!A * C * !Y)	0.00001	0.00001	0.00001
	(!A * C * !Y)	-0.00004	-0.00004	-0.00004
	(!A * C * !Y)	-0.00007	-0.00007	-0.00006
	(!A * !C * !Y)	0.00013	0.00013	0.00013
	(!A * !C * !Y)	0.00001	0.00001	0.00001
	(!A * !C * !Y)	-0.00005	-0.00005	-0.00005
	(!A * !C * !Y)	-0.00007	-0.00007	-0.00007

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X0P5H7H	(!B * !Y)	-0.00023	-0.00023	-0.00023
	(!B * !Y)	-0.00001	-0.00001	-0.00001
	(!B * !Y)	0.00003	0.00003	0.00003
	(!B * !Y)	0.00006	0.00006	0.00006
	(!A * B * !Y)	-0.00023	-0.00023	-0.00023
	(!A * B * !Y)	-0.00001	-0.00001	-0.00001
	(!A * B * !Y)	0.00002	0.00003	0.00003
	(!A * B * !Y)	0.00006	0.00006	0.00006

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

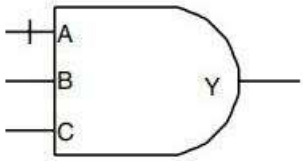
Cell Name	When	Power(pJ)		
		min	avg	max
AND3X0P5H7H	(!B * !Y)	0.00023	0.00023	0.00023
	(!B * !Y)	0.00001	0.00001	0.00001
	(!B * !Y)	-0.00003	-0.00003	-0.00002
	(!B * !Y)	-0.00006	-0.00006	-0.00006
	(!A * B * !Y)	0.00023	0.00023	0.00023
	(!A * B * !Y)	0.00001	0.00001	0.00001
	(!A * B * !Y)	-0.00002	-0.00002	-0.00002
	(!A * B * !Y)	-0.00006	-0.00006	-0.00006

AND3X0P7H7H

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

Cell Description

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



Truth Table

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

Footprint

Cell Name	Area
AND3X0P7H7H	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
AND3X0P7H7H	0.00086	0.00077	0.00088	0.03443

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AND3X0P7H7H	0.00000	0.01392	0.02992

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND3X0P7H7H	A->Y (RR)	0.10661	0.27721	0.69828
	B->Y (RR)	0.10159	0.27683	0.70610
	C->Y (RR)	0.09883	0.27019	0.68925

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND3X0P7H7H	A->Y (FF)	0.07774	0.22341	0.57429
	B->Y (FF)	0.07243	0.21597	0.56063
	C->Y (FF)	0.06942	0.21026	0.54842

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND3X0P7H7H	A	0.00044	0.00051	0.00058
	A	0.00004	0.00004	0.00004
	A	-0.00007	-0.00007	-0.00007
	A	0.00158	0.00165	0.00171
	B	0.00047	0.00052	0.00058
	B	0.00004	0.00004	0.00004
	B	-0.00004	-0.00003	-0.00003
	B	0.00139	0.00144	0.00150
	C	0.00044	0.00050	0.00057
	C	0.00004	0.00004	0.00004
	C	0.00000	0.00000	0.00001
	C	0.00125	0.00131	0.00138

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND3X0P7H7H	A	0.00158	0.00164	0.00170
	A	-0.00004	-0.00004	-0.00004
	A	0.00007	0.00007	0.00007
	A	0.00050	0.00056	0.00062
	B	0.00143	0.00149	0.00154
	B	-0.00004	-0.00004	-0.00004
	B	0.00003	0.00003	0.00004
	B	0.00054	0.00060	0.00065
	C	0.00132	0.00139	0.00146
	C	-0.00004	-0.00004	-0.00004
	C	-0.00000	-0.00000	-0.00000
	C	0.00051	0.00058	0.00065

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X0P7H7H	(B * !C * !Y)	-0.00017	-0.00017	-0.00017
	(B * !C * !Y)	-0.00001	-0.00001	-0.00001
	(B * !C * !Y)	0.00001	0.00001	0.00001
	(B * !C * !Y)	0.00020	0.00020	0.00020
	(!B * C * !Y)	-0.00017	-0.00017	-0.00017
	(!B * C * !Y)	-0.00001	-0.00001	-0.00001
	(!B * C * !Y)	0.00001	0.00001	0.00001
	(!B * C * !Y)	0.00020	0.00020	0.00021
	(!B * !C * !Y)	-0.00017	-0.00017	-0.00017
	(!B * !C * !Y)	-0.00001	-0.00001	-0.00001
	(!B * !C * !Y)	0.00001	0.00001	0.00001
	(!B * !C * !Y)	0.00020	0.00020	0.00020

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X0P7H7H	(B * !C * !Y)	0.00017	0.00017	0.00017
	(B * !C * !Y)	0.00001	0.00001	0.00001
	(B * !C * !Y)	-0.00001	-0.00001	-0.00001
	(B * !C * !Y)	-0.00020	-0.00019	-0.00017
	(!B * C * !Y)	0.00017	0.00017	0.00017
	(!B * C * !Y)	0.00001	0.00001	0.00001
	(!B * C * !Y)	-0.00001	-0.00001	-0.00001
	(!B * C * !Y)	-0.00020	-0.00019	-0.00018
	(!B * !C * !Y)	0.00017	0.00017	0.00017
	(!B * !C * !Y)	0.00001	0.00001	0.00001
	(!B * !C * !Y)	-0.00001	-0.00001	-0.00001
	(!B * !C * !Y)	-0.00020	-0.00019	-0.00018

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X0P7H7H	(A * !C * !Y)	-0.00013	-0.00013	-0.00012
	(A * !C * !Y)	-0.00001	-0.00001	-0.00001
	(A * !C * !Y)	0.00001	0.00001	0.00002
	(A * !C * !Y)	0.00018	0.00018	0.00018
	(!A * C * !Y)	-0.00013	-0.00013	-0.00013
	(!A * C * !Y)	-0.00001	-0.00001	-0.00001
	(!A * C * !Y)	0.00004	0.00004	0.00004
	(!A * C * !Y)	0.00006	0.00006	0.00006
	(!A * !C * !Y)	-0.00013	-0.00013	-0.00013
	(!A * !C * !Y)	-0.00001	-0.00001	-0.00001
	(!A * !C * !Y)	0.00005	0.00005	0.00005
	(!A * !C * !Y)	0.00006	0.00006	0.00006

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X0P7H7H	(A * !C * !Y)	0.00013	0.00013	0.00014
	(A * !C * !Y)	0.00001	0.00001	0.00001
	(A * !C * !Y)	-0.00002	-0.00001	-0.00001
	(A * !C * !Y)	-0.00018	-0.00017	-0.00015
	(!A * C * !Y)	0.00013	0.00013	0.00013
	(!A * C * !Y)	0.00001	0.00001	0.00001
	(!A * C * !Y)	-0.00004	-0.00004	-0.00004
	(!A * C * !Y)	-0.00006	-0.00006	-0.00006
	(!A * !C * !Y)	0.00013	0.00013	0.00013
	(!A * !C * !Y)	0.00001	0.00001	0.00001
	(!A * !C * !Y)	-0.00005	-0.00005	-0.00005
	(!A * !C * !Y)	-0.00006	-0.00006	-0.00006

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X0P7H7H	(!B * !Y)	-0.00024	-0.00024	-0.00024
	(!B * !Y)	-0.00001	-0.00001	-0.00001
	(!B * !Y)	0.00002	0.00003	0.00003
	(!B * !Y)	0.00006	0.00006	0.00007
	(!A * B * !Y)	-0.00024	-0.00024	-0.00024
	(!A * B * !Y)	-0.00001	-0.00001	-0.00001
	(!A * B * !Y)	0.00002	0.00002	0.00002
	(!A * B * !Y)	0.00006	0.00006	0.00007

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

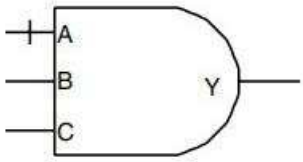
Cell Name	When	Power(pJ)		
		min	avg	max
AND3X0P7H7H	(!B * !Y)	0.00024	0.00024	0.00024
	(!B * !Y)	0.00001	0.00001	0.00001
	(!B * !Y)	-0.00002	-0.00002	-0.00002
	(!B * !Y)	-0.00006	-0.00006	-0.00006
	(!A * B * !Y)	0.00024	0.00024	0.00024
	(!A * B * !Y)	0.00001	0.00001	0.00001
	(!A * B * !Y)	-0.00002	-0.00002	-0.00002
	(!A * B * !Y)	-0.00006	-0.00006	-0.00006

AND3X1H7H

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

Cell Description

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



Truth Table

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

Footprint

Cell Name	Area
AND3X1H7H	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
AND3X1H7H	0.00083	0.00080	0.00089	0.04116

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AND3X1H7H	0.00000	0.01422	0.03432

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND3X1H7H	A->Y (RR)	0.10332	0.27555	0.69871
	B->Y (RR)	0.09949	0.27601	0.70711
	C->Y (RR)	0.09663	0.26938	0.68998

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND3X1H7H	A->Y (FF)	0.07642	0.22596	0.58622
	B->Y (FF)	0.07157	0.21893	0.57259
	C->Y (FF)	0.06860	0.21330	0.56087

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND3X1H7H	A	0.00049	0.00056	0.00062
	A	0.00003	0.00003	0.00003
	A	-0.00007	-0.00006	-0.00006
	A	0.00159	0.00166	0.00172
	B	0.00051	0.00056	0.00062
	B	0.00003	0.00003	0.00003
	B	-0.00003	-0.00003	-0.00002
	B	0.00141	0.00146	0.00152
	C	0.00048	0.00054	0.00062
	C	0.00003	0.00003	0.00003
	C	0.00000	0.00001	0.00002
	C	0.00126	0.00133	0.00140

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND3X1H7H	A	0.00158	0.00164	0.00170
	A	-0.00003	-0.00003	-0.00003
	A	0.00006	0.00006	0.00007
	A	0.00053	0.00060	0.00065
	B	0.00144	0.00150	0.00156
	B	-0.00003	-0.00003	-0.00002
	B	0.00002	0.00003	0.00003
	B	0.00056	0.00062	0.00068
	C	0.00133	0.00140	0.00147
	C	-0.00003	-0.00003	-0.00003
	C	-0.00001	-0.00001	-0.00000
	C	0.00055	0.00062	0.00069

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X1H7H	(B * !C * !Y)	-0.00015	-0.00015	-0.00015
	(B * !C * !Y)	-0.00001	-0.00001	-0.00001
	(B * !C * !Y)	0.00001	0.00001	0.00001
	(B * !C * !Y)	0.00020	0.00020	0.00021
	(!B * C * !Y)	-0.00015	-0.00015	-0.00015
	(!B * C * !Y)	-0.00001	-0.00001	-0.00001
	(!B * C * !Y)	0.00001	0.00001	0.00001
	(!B * C * !Y)	0.00021	0.00021	0.00022
	(!B * !C * !Y)	-0.00015	-0.00015	-0.00015
	(!B * !C * !Y)	-0.00001	-0.00001	-0.00001
	(!B * !C * !Y)	0.00001	0.00001	0.00001
	(!B * !C * !Y)	0.00020	0.00021	0.00021

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X1H7H	(B * !C * !Y)	0.00015	0.00015	0.00015
	(B * !C * !Y)	0.00001	0.00001	0.00001
	(B * !C * !Y)	-0.00001	-0.00001	-0.00001
	(B * !C * !Y)	-0.00020	-0.00019	-0.00018
	(!B * C * !Y)	0.00015	0.00015	0.00015
	(!B * C * !Y)	0.00001	0.00001	0.00001
	(!B * C * !Y)	-0.00001	-0.00001	-0.00001
	(!B * C * !Y)	-0.00021	-0.00020	-0.00019
	(!B * !C * !Y)	0.00015	0.00015	0.00015
	(!B * !C * !Y)	0.00001	0.00001	0.00001
	(!B * !C * !Y)	-0.00001	-0.00001	-0.00001
	(!B * !C * !Y)	-0.00021	-0.00020	-0.00019

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X1H7H	(A * !C * !Y)	-0.00013	-0.00013	-0.00013
	(A * !C * !Y)	-0.00001	-0.00001	-0.00001
	(A * !C * !Y)	0.00001	0.00001	0.00002
	(A * !C * !Y)	0.00019	0.00019	0.00020
	(!A * C * !Y)	-0.00013	-0.00013	-0.00013
	(!A * C * !Y)	-0.00001	-0.00001	-0.00001
	(!A * C * !Y)	0.00003	0.00004	0.00004
	(!A * C * !Y)	0.00007	0.00007	0.00007
	(!A * !C * !Y)	-0.00013	-0.00013	-0.00013
	(!A * !C * !Y)	-0.00001	-0.00001	-0.00001
	(!A * !C * !Y)	0.00005	0.00005	0.00005
	(!A * !C * !Y)	0.00007	0.00007	0.00007

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X1H7H	(A * !C * !Y)	0.00013	0.00014	0.00015
	(A * !C * !Y)	0.00001	0.00001	0.00001
	(A * !C * !Y)	-0.00002	-0.00001	-0.00001
	(A * !C * !Y)	-0.00019	-0.00018	-0.00017
	(!A * C * !Y)	0.00013	0.00013	0.00013
	(!A * C * !Y)	0.00001	0.00001	0.00001
	(!A * C * !Y)	-0.00004	-0.00004	-0.00003
	(!A * C * !Y)	-0.00007	-0.00007	-0.00007
	(!A * !C * !Y)	0.00013	0.00013	0.00013
	(!A * !C * !Y)	0.00001	0.00001	0.00001
	(!A * !C * !Y)	-0.00005	-0.00005	-0.00005
	(!A * !C * !Y)	-0.00007	-0.00007	-0.00007

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X1H7H	(!B * !Y)	-0.00024	-0.00024	-0.00024
	(!B * !Y)	-0.00001	-0.00001	-0.00001
	(!B * !Y)	0.00002	0.00003	0.00003
	(!B * !Y)	0.00006	0.00007	0.00007
	(!A * B * !Y)	-0.00024	-0.00024	-0.00024
	(!A * B * !Y)	-0.00001	-0.00001	-0.00001
	(!A * B * !Y)	0.00001	0.00002	0.00002
	(!A * B * !Y)	0.00006	0.00007	0.00008

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

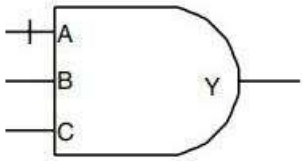
Cell Name	When	Power(pJ)		
		min	avg	max
AND3X1H7H	(!B * !Y)	0.00024	0.00024	0.00024
	(!B * !Y)	0.00001	0.00001	0.00001
	(!B * !Y)	-0.00003	-0.00002	-0.00002
	(!B * !Y)	-0.00007	-0.00006	-0.00006
	(!A * B * !Y)	0.00024	0.00024	0.00024
	(!A * B * !Y)	0.00001	0.00001	0.00001
	(!A * B * !Y)	-0.00002	-0.00002	-0.00001
	(!A * B * !Y)	-0.00006	-0.00006	-0.00006

AND3X1P4H7H

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

Cell Description

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



Truth Table

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

Footprint

Cell Name	Area
AND3X1P4H7H	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
AND3X1P4H7H	0.00084	0.00077	0.00089	0.04708

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AND3X1P4H7H	0.00000	0.01504	0.03974

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND3X1P4H7H	A->Y (RR)	0.10603	0.27993	0.70645
	B->Y (RR)	0.10106	0.27975	0.71557
	C->Y (RR)	0.09863	0.27381	0.69974

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND3X1P4H7H	A->Y (FF)	0.07832	0.23048	0.59707
	B->Y (FF)	0.07288	0.22302	0.58382
	C->Y (FF)	0.07016	0.21771	0.57225

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND3X1P4H7H	A	0.00054	0.00061	0.00069
	A	0.00002	0.00003	0.00003
	A	-0.00006	-0.00006	-0.00006
	A	0.00165	0.00172	0.00179
	B	0.00056	0.00062	0.00069
	B	0.00002	0.00003	0.00003
	B	-0.00003	-0.00003	-0.00002
	B	0.00145	0.00151	0.00157
	C	0.00054	0.00060	0.00068
	C	0.00002	0.00003	0.00003
	C	0.00000	0.00001	0.00002
	C	0.00133	0.00139	0.00147

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND3X1P4H7H	A	0.00164	0.00171	0.00178
	A	-0.00003	-0.00003	-0.00002
	A	0.00006	0.00006	0.00006
	A	0.00059	0.00066	0.00073
	B	0.00149	0.00156	0.00162
	B	-0.00003	-0.00003	-0.00001
	B	0.00002	0.00003	0.00003
	B	0.00063	0.00069	0.00075
	C	0.00139	0.00147	0.00154
	C	-0.00003	-0.00003	-0.00002
	C	-0.00001	-0.00001	0.00000
	C	0.00060	0.00068	0.00075

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X1P4H7H	(B * !C * !Y)	-0.00017	-0.00017	-0.00017
	(B * !C * !Y)	-0.00001	-0.00001	-0.00001
	(B * !C * !Y)	0.00001	0.00001	0.00002
	(B * !C * !Y)	0.00019	0.00019	0.00020
	(!B * C * !Y)	-0.00017	-0.00017	-0.00017
	(!B * C * !Y)	-0.00001	-0.00001	-0.00001
	(!B * C * !Y)	0.00001	0.00001	0.00001
	(!B * C * !Y)	0.00020	0.00020	0.00020
	(!B * !C * !Y)	-0.00017	-0.00017	-0.00017
	(!B * !C * !Y)	-0.00001	-0.00001	-0.00001
	(!B * !C * !Y)	0.00001	0.00001	0.00001
	(!B * !C * !Y)	0.00019	0.00019	0.00020

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X1P4H7H	(B * !C * !Y)	0.00017	0.00017	0.00017
	(B * !C * !Y)	0.00001	0.00001	0.00001
	(B * !C * !Y)	-0.00002	-0.00001	-0.00001
	(B * !C * !Y)	-0.00019	-0.00018	-0.00017
	(!B * C * !Y)	0.00017	0.00017	0.00017
	(!B * C * !Y)	0.00001	0.00001	0.00001
	(!B * C * !Y)	-0.00001	-0.00001	-0.00001
	(!B * C * !Y)	-0.00020	-0.00019	-0.00018
	(!B * !C * !Y)	0.00017	0.00017	0.00017
	(!B * !C * !Y)	0.00001	0.00001	0.00001
	(!B * !C * !Y)	-0.00001	-0.00001	-0.00001
	(!B * !C * !Y)	-0.00020	-0.00019	-0.00018

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X1P4H7H	(A * !C * !Y)	-0.00013	-0.00013	-0.00013
	(A * !C * !Y)	-0.00001	-0.00001	-0.00001
	(A * !C * !Y)	0.00001	0.00001	0.00002
	(A * !C * !Y)	0.00018	0.00018	0.00018
	(!A * C * !Y)	-0.00013	-0.00013	-0.00013
	(!A * C * !Y)	-0.00001	-0.00001	-0.00001
	(!A * C * !Y)	0.00004	0.00004	0.00004
	(!A * C * !Y)	0.00006	0.00006	0.00006
	(!A * !C * !Y)	-0.00013	-0.00013	-0.00013
	(!A * !C * !Y)	-0.00001	-0.00001	-0.00001
	(!A * !C * !Y)	0.00005	0.00005	0.00005
	(!A * !C * !Y)	0.00006	0.00006	0.00006

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X1P4H7H	(A * !C * !Y)	0.00013	0.00013	0.00014
	(A * !C * !Y)	0.00001	0.00001	0.00001
	(A * !C * !Y)	-0.00001	-0.00001	-0.00001
	(A * !C * !Y)	-0.00018	-0.00017	-0.00016
	(!A * C * !Y)	0.00013	0.00013	0.00013
	(!A * C * !Y)	0.00001	0.00001	0.00001
	(!A * C * !Y)	-0.00004	-0.00004	-0.00004
	(!A * C * !Y)	-0.00006	-0.00006	-0.00005
	(!A * !C * !Y)	0.00013	0.00013	0.00013
	(!A * !C * !Y)	0.00001	0.00001	0.00001
	(!A * !C * !Y)	-0.00005	-0.00005	-0.00005
	(!A * !C * !Y)	-0.00006	-0.00006	-0.00006

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X1P4H7H	(!B * !Y)	-0.00024	-0.00024	-0.00024
	(!B * !Y)	-0.00001	-0.00001	-0.00001
	(!B * !Y)	0.00002	0.00003	0.00003
	(!B * !Y)	0.00006	0.00006	0.00007
	(!A * B * !Y)	-0.00024	-0.00024	-0.00024
	(!A * B * !Y)	-0.00001	-0.00001	-0.00001
	(!A * B * !Y)	0.00002	0.00003	0.00003
	(!A * B * !Y)	0.00005	0.00006	0.00007

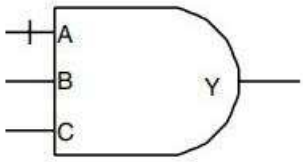
Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X1P4H7H	(!B * !Y)	0.00024	0.00024	0.00024
	(!B * !Y)	0.00001	0.00001	0.00001
	(!B * !Y)	-0.00003	-0.00002	-0.00002
	(!B * !Y)	-0.00006	-0.00006	-0.00006
	(!A * B * !Y)	0.00024	0.00024	0.00024
	(!A * B * !Y)	0.00001	0.00001	0.00001
	(!A * B * !Y)	-0.00002	-0.00002	-0.00002
	(!A * B * !Y)	-0.00007	-0.00006	-0.00005

AND3X2H7H

Cell Description

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



Truth Table

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

Footprint

Cell Name	Area
AND3X2H7H	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
AND3X2H7H	0.00084	0.00075	0.00089	0.06045

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AND3X2H7H	0.00000	0.02195	0.03122

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND3X2H7H	A->Y (RR)	0.11323	0.29085	0.72315
	B->Y (RR)	0.10858	0.29118	0.73390
	C->Y (RR)	0.10600	0.28503	0.71801

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND3X2H7H	A->Y (FF)	0.08521	0.23736	0.60242
	B->Y (FF)	0.07982	0.23015	0.58965
	C->Y (FF)	0.07692	0.22493	0.57920

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND3X2H7H	A	0.00081	0.00089	0.00099
	A	0.00002	0.00002	0.00003
	A	-0.00006	-0.00006	-0.00005
	A	0.00191	0.00199	0.00209
	B	0.00083	0.00090	0.00099
	B	0.00002	0.00002	0.00002
	B	-0.00002	-0.00002	-0.00002
	B	0.00171	0.00178	0.00187
	C	0.00080	0.00088	0.00099
	C	0.00002	0.00002	0.00002
	C	0.00002	0.00002	0.00003
	C	0.00157	0.00166	0.00176

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND3X2H7H	A	0.00191	0.00200	0.00209
	A	-0.00002	-0.00002	-0.00002
	A	0.00005	0.00006	0.00006
	A	0.00087	0.00096	0.00105
	B	0.00176	0.00185	0.00193
	B	-0.00002	-0.00002	-0.00002
	B	0.00002	0.00002	0.00002
	B	0.00091	0.00100	0.00108
	C	0.00165	0.00175	0.00185
	C	-0.00002	-0.00002	-0.00002
	C	-0.00002	-0.00002	-0.00002
	C	0.00088	0.00097	0.00107

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X2H7H	(B * !C * !Y)	-0.00016	-0.00016	-0.00016
	(B * !C * !Y)	-0.00001	-0.00001	-0.00001
	(B * !C * !Y)	0.00001	0.00002	0.00002
	(B * !C * !Y)	0.00019	0.00020	0.00020
	(!B * C * !Y)	-0.00016	-0.00016	-0.00016
	(!B * C * !Y)	-0.00001	-0.00001	-0.00001
	(!B * C * !Y)	0.00000	0.00001	0.00001
	(!B * C * !Y)	0.00021	0.00021	0.00021
	(!B * !C * !Y)	-0.00016	-0.00016	-0.00016
	(!B * !C * !Y)	-0.00001	-0.00001	-0.00001
	(!B * !C * !Y)	0.00001	0.00001	0.00001
	(!B * !C * !Y)	0.00020	0.00020	0.00021

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X2H7H	(B * !C * !Y)	0.00016	0.00016	0.00016
	(B * !C * !Y)	0.00001	0.00001	0.00001
	(B * !C * !Y)	-0.00001	-0.00001	-0.00001
	(B * !C * !Y)	-0.00020	-0.00019	-0.00018
	(!B * C * !Y)	0.00016	0.00016	0.00016
	(!B * C * !Y)	0.00001	0.00001	0.00001
	(!B * C * !Y)	-0.00001	-0.00001	-0.00000
	(!B * C * !Y)	-0.00021	-0.00020	-0.00018
	(!B * !C * !Y)	0.00016	0.00016	0.00017
	(!B * !C * !Y)	0.00001	0.00001	0.00001
	(!B * !C * !Y)	-0.00001	-0.00001	-0.00001
	(!B * !C * !Y)	-0.00021	-0.00020	-0.00018

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X2H7H	(A * !C * !Y)	-0.00012	-0.00012	-0.00012
	(A * !C * !Y)	-0.00001	-0.00001	-0.00001
	(A * !C * !Y)	0.00000	0.00001	0.00001
	(A * !C * !Y)	0.00019	0.00019	0.00020
	(!A * C * !Y)	-0.00012	-0.00012	-0.00012
	(!A * C * !Y)	-0.00001	-0.00001	-0.00001
	(!A * C * !Y)	0.00004	0.00004	0.00004
	(!A * C * !Y)	0.00006	0.00006	0.00006
	(!A * !C * !Y)	-0.00012	-0.00012	-0.00012
	(!A * !C * !Y)	-0.00001	-0.00001	-0.00001
	(!A * !C * !Y)	0.00005	0.00005	0.00006
	(!A * !C * !Y)	0.00005	0.00006	0.00006

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X2H7H	(A * !C * !Y)	0.00012	0.00013	0.00014
	(A * !C * !Y)	0.00001	0.00001	0.00001
	(A * !C * !Y)	-0.00001	-0.00001	-0.00000
	(A * !C * !Y)	-0.00019	-0.00018	-0.00017
	(!A * C * !Y)	0.00012	0.00012	0.00013
	(!A * C * !Y)	0.00001	0.00001	0.00001
	(!A * C * !Y)	-0.00004	-0.00004	-0.00004
	(!A * C * !Y)	-0.00006	-0.00006	-0.00006
	(!A * !C * !Y)	0.00013	0.00013	0.00013
	(!A * !C * !Y)	0.00001	0.00001	0.00001
	(!A * !C * !Y)	-0.00006	-0.00005	-0.00005
	(!A * !C * !Y)	-0.00006	-0.00006	-0.00005

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X2H7H	(!B * !Y)	-0.00024	-0.00024	-0.00024
	(!B * !Y)	-0.00001	-0.00001	-0.00001
	(!B * !Y)	0.00002	0.00003	0.00003
	(!B * !Y)	0.00007	0.00007	0.00008
	(!A * B * !Y)	-0.00024	-0.00024	-0.00024
	(!A * B * !Y)	-0.00001	-0.00001	-0.00001
	(!A * B * !Y)	0.00001	0.00002	0.00003
	(!A * B * !Y)	0.00007	0.00007	0.00008

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

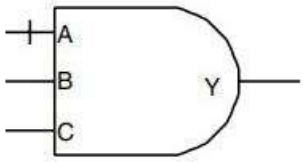
Cell Name	When	Power(pJ)		
		min	avg	max
AND3X2H7H	(!B * !Y)	0.00024	0.00024	0.00024
	(!B * !Y)	0.00001	0.00001	0.00001
	(!B * !Y)	-0.00003	-0.00002	-0.00002
	(!B * !Y)	-0.00007	-0.00007	-0.00007
	(!A * B * !Y)	0.00024	0.00024	0.00024
	(!A * B * !Y)	0.00001	0.00001	0.00001
	(!A * B * !Y)	-0.00003	-0.00002	-0.00001
	(!A * B * !Y)	-0.00007	-0.00007	-0.00007

AND3X3H7H

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

Cell Description

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



Truth Table

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

Footprint

Cell Name	Area
AND3X3H7H	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
AND3X3H7H	0.00088	0.00079	0.00093	0.08585

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AND3X3H7H	0.00000	0.02274	0.04567

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND3X3H7H	A->Y (RR)	0.12444	0.30681	0.74618
	B->Y (RR)	0.11954	0.30795	0.76097
	C->Y (RR)	0.11727	0.30311	0.74858

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND3X3H7H	A->Y (FF)	0.07674	0.23136	0.60062
	B->Y (FF)	0.07236	0.22549	0.58976
	C->Y (FF)	0.07031	0.22149	0.58147

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND3X3H7H	A	0.00098	0.00108	0.00119
	A	0.00001	0.00002	0.00002
	A	-0.00003	-0.00003	-0.00003
	A	0.00208	0.00218	0.00229
	B	0.00100	0.00109	0.00119
	B	0.00001	0.00002	0.00002
	B	-0.00000	-0.00000	0.00000
	B	0.00188	0.00197	0.00207
	C	0.00097	0.00106	0.00119
	C	0.00001	0.00002	0.00002
	C	0.00003	0.00004	0.00004
	C	0.00176	0.00186	0.00198

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND3X3H7H	A	0.00212	0.00223	0.00232
	A	-0.00002	-0.00002	-0.00001
	A	0.00003	0.00003	0.00003
	A	0.00108	0.00118	0.00128
	B	0.00197	0.00208	0.00217
	B	-0.00002	-0.00002	0.00000
	B	0.00000	0.00000	0.00000
	B	0.00111	0.00122	0.00132
	C	0.00187	0.00199	0.00210
	C	-0.00002	-0.00001	-0.00001
	C	-0.00004	-0.00004	-0.00003
	C	0.00108	0.00120	0.00131

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X3H7H	(B * !C * !Y)	-0.00019	-0.00018	-0.00018
	(B * !C * !Y)	-0.00001	-0.00001	-0.00001
	(B * !C * !Y)	0.00001	0.00001	0.00001
	(B * !C * !Y)	0.00020	0.00020	0.00021
	(!B * C * !Y)	-0.00019	-0.00018	-0.00018
	(!B * C * !Y)	-0.00001	-0.00001	-0.00001
	(!B * C * !Y)	0.00001	0.00001	0.00001
	(!B * C * !Y)	0.00020	0.00020	0.00021
	(!B * !C * !Y)	-0.00019	-0.00018	-0.00018
	(!B * !C * !Y)	-0.00001	-0.00001	-0.00001
	(!B * !C * !Y)	0.00001	0.00001	0.00001
	(!B * !C * !Y)	0.00020	0.00020	0.00020

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X3H7H	(B * !C * !Y)	0.00018	0.00018	0.00019
	(B * !C * !Y)	0.00001	0.00001	0.00001
	(B * !C * !Y)	-0.00001	-0.00001	-0.00001
	(B * !C * !Y)	-0.00020	-0.00019	-0.00018
	(!B * C * !Y)	0.00018	0.00018	0.00019
	(!B * C * !Y)	0.00001	0.00001	0.00001
	(!B * C * !Y)	-0.00001	-0.00001	-0.00001
	(!B * C * !Y)	-0.00021	-0.00020	-0.00018
	(!B * !C * !Y)	0.00018	0.00018	0.00019
	(!B * !C * !Y)	0.00001	0.00001	0.00001
	(!B * !C * !Y)	-0.00001	-0.00001	-0.00001
	(!B * !C * !Y)	-0.00020	-0.00019	-0.00018

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X3H7H	(A * !C * !Y)	-0.00014	-0.00014	-0.00014
	(A * !C * !Y)	-0.00001	-0.00001	-0.00001
	(A * !C * !Y)	0.00001	0.00001	0.00002
	(A * !C * !Y)	0.00018	0.00018	0.00019
	(!A * C * !Y)	-0.00014	-0.00014	-0.00014
	(!A * C * !Y)	-0.00001	-0.00001	-0.00001
	(!A * C * !Y)	0.00004	0.00004	0.00005
	(!A * C * !Y)	0.00005	0.00006	0.00006
	(!A * !C * !Y)	-0.00014	-0.00014	-0.00014
	(!A * !C * !Y)	-0.00001	-0.00001	-0.00001
	(!A * !C * !Y)	0.00005	0.00005	0.00005
	(!A * !C * !Y)	0.00006	0.00006	0.00006

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X3H7H	(A * !C * !Y)	0.00014	0.00015	0.00016
	(A * !C * !Y)	0.00001	0.00001	0.00001
	(A * !C * !Y)	-0.00002	-0.00001	-0.00001
	(A * !C * !Y)	-0.00019	-0.00017	-0.00015
	(!A * C * !Y)	0.00014	0.00014	0.00014
	(!A * C * !Y)	0.00001	0.00001	0.00001
	(!A * C * !Y)	-0.00004	-0.00004	-0.00003
	(!A * C * !Y)	-0.00006	-0.00006	-0.00005
	(!A * !C * !Y)	0.00014	0.00015	0.00015
	(!A * !C * !Y)	0.00001	0.00001	0.00001
	(!A * !C * !Y)	-0.00005	-0.00005	-0.00005
	(!A * !C * !Y)	-0.00006	-0.00006	-0.00006

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X3H7H	(!B * !Y)	-0.00026	-0.00026	-0.00026
	(!B * !Y)	-0.00001	-0.00001	-0.00001
	(!B * !Y)	0.00002	0.00003	0.00003
	(!B * !Y)	0.00007	0.00007	0.00008
	(!A * B * !Y)	-0.00026	-0.00026	-0.00026
	(!A * B * !Y)	-0.00001	-0.00001	-0.00001
	(!A * B * !Y)	0.00002	0.00002	0.00002
	(!A * B * !Y)	0.00007	0.00007	0.00008

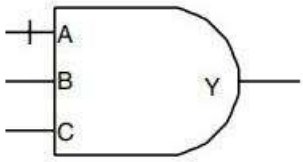
Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X3H7H	(!B * !Y)	0.00026	0.00026	0.00026
	(!B * !Y)	0.00001	0.00001	0.00001
	(!B * !Y)	-0.00003	-0.00003	-0.00002
	(!B * !Y)	-0.00007	-0.00007	-0.00007
	(!A * B * !Y)	0.00026	0.00026	0.00026
	(!A * B * !Y)	0.00001	0.00001	0.00001
	(!A * B * !Y)	-0.00002	-0.00002	-0.00002
	(!A * B * !Y)	-0.00007	-0.00007	-0.00007

AND3X4H7H

Cell Description

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



Truth Table

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

Footprint

Cell Name	Area
AND3X4H7H	4.48000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
AND3X4H7H	0.00198	0.00179	0.00160	0.11991

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AND3X4H7H	0.00000	0.04123	0.04545

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND3X4H7H	A->Y (RR)	0.11714	0.29648	0.72992
	B->Y (RR)	0.11179	0.29684	0.74276
	C->Y (RR)	0.10397	0.28681	0.72434

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND3X4H7H	A->Y (FF)	0.08944	0.24221	0.60666
	B->Y (FF)	0.08346	0.23459	0.59448
	C->Y (FF)	0.07723	0.22644	0.58047

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND3X4H7H	A	0.00156	0.00174	0.00195
	A	0.00003	0.00003	0.00004
	A	-0.00010	-0.00010	-0.00010
	A	0.00380	0.00399	0.00419
	B	0.00161	0.00176	0.00195
	B	0.00003	0.00003	0.00004
	B	-0.00003	-0.00003	-0.00003
	B	0.00340	0.00356	0.00375
	C	0.00161	0.00175	0.00195
	C	0.00002	0.00003	0.00003
	C	0.00002	0.00004	0.00005
	C	0.00299	0.00315	0.00334

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND3X4H7H	A	0.00392	0.00411	0.00430
	A	-0.00003	-0.00003	-0.00003
	A	0.00010	0.00010	0.00010
	A	0.00179	0.00197	0.00216
	B	0.00362	0.00380	0.00397
	B	-0.00003	-0.00003	-0.00003
	B	0.00003	0.00003	0.00003
	B	0.00187	0.00205	0.00222
	C	0.00331	0.00349	0.00366
	C	-0.00003	-0.00003	-0.00002
	C	-0.00004	-0.00004	-0.00002
	C	0.00192	0.00210	0.00227

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X4H7H	(B * !C * !Y)	-0.00039	-0.00039	-0.00039
	(B * !C * !Y)	-0.00002	-0.00002	-0.00002
	(B * !C * !Y)	0.00001	0.00003	0.00004
	(B * !C * !Y)	0.00042	0.00043	0.00045
	(!B * C * !Y)	-0.00039	-0.00039	-0.00039
	(!B * C * !Y)	-0.00002	-0.00002	-0.00002
	(!B * C * !Y)	0.00000	0.00002	0.00002
	(!B * C * !Y)	0.00043	0.00044	0.00045
	(!B * !C * !Y)	-0.00039	-0.00039	-0.00039
	(!B * !C * !Y)	-0.00002	-0.00002	-0.00002
	(!B * !C * !Y)	0.00001	0.00002	0.00003
	(!B * !C * !Y)	0.00043	0.00043	0.00044

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X4H7H	(B * !C * !Y)	0.00039	0.00039	0.00039
	(B * !C * !Y)	0.00002	0.00002	0.00002
	(B * !C * !Y)	-0.00004	-0.00003	-0.00001
	(B * !C * !Y)	-0.00043	-0.00040	-0.00036
	(!B * C * !Y)	0.00039	0.00039	0.00039
	(!B * C * !Y)	0.00002	0.00002	0.00002
	(!B * C * !Y)	-0.00002	-0.00002	-0.00000
	(!B * C * !Y)	-0.00043	-0.00041	-0.00037
	(!B * !C * !Y)	0.00039	0.00039	0.00039
	(!B * !C * !Y)	0.00002	0.00002	0.00002
	(!B * !C * !Y)	-0.00003	-0.00002	-0.00001
	(!B * !C * !Y)	-0.00043	-0.00042	-0.00040

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X4H7H	(A * !C * !Y)	-0.00029	-0.00029	-0.00029
	(A * !C * !Y)	-0.00002	-0.00002	-0.00002
	(A * !C * !Y)	0.00000	0.00002	0.00004
	(A * !C * !Y)	0.00040	0.00041	0.00043
	(!A * C * !Y)	-0.00029	-0.00029	-0.00029
	(!A * C * !Y)	-0.00002	-0.00002	-0.00002
	(!A * C * !Y)	0.00006	0.00008	0.00008
	(!A * C * !Y)	0.00015	0.00015	0.00017
	(!A * !C * !Y)	-0.00029	-0.00029	-0.00029
	(!A * !C * !Y)	-0.00002	-0.00002	-0.00002
	(!A * !C * !Y)	0.00008	0.00009	0.00010
	(!A * !C * !Y)	0.00015	0.00015	0.00016

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X4H7H	(A * !C * !Y)	0.00029	0.00030	0.00032
	(A * !C * !Y)	0.00002	0.00002	0.00002
	(A * !C * !Y)	-0.00003	-0.00002	0.00000
	(A * !C * !Y)	-0.00040	-0.00038	-0.00034
	(!A * C * !Y)	0.00029	0.00029	0.00029
	(!A * C * !Y)	0.00002	0.00002	0.00002
	(!A * C * !Y)	-0.00008	-0.00008	-0.00006
	(!A * C * !Y)	-0.00016	-0.00015	-0.00014
	(!A * !C * !Y)	0.00029	0.00030	0.00030
	(!A * !C * !Y)	0.00002	0.00002	0.00002
	(!A * !C * !Y)	-0.00010	-0.00009	-0.00008
	(!A * !C * !Y)	-0.00015	-0.00015	-0.00015

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X4H7H	(!B * !Y)	-0.00036	-0.00035	-0.00035
	(!B * !Y)	-0.00002	-0.00002	-0.00002
	(!B * !Y)	0.00004	0.00005	0.00006
	(!B * !Y)	0.00012	0.00013	0.00013
	(!A * B * !Y)	-0.00036	-0.00035	-0.00035
	(!A * B * !Y)	-0.00002	-0.00002	-0.00001
	(!A * B * !Y)	0.00004	0.00005	0.00006
	(!A * B * !Y)	0.00012	0.00013	0.00014

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

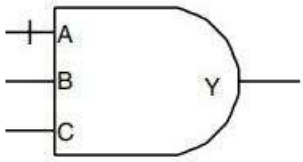
Cell Name	When	Power(pJ)		
		min	avg	max
AND3X4H7H	(!B * !Y)	0.00035	0.00035	0.00036
	(!B * !Y)	0.00002	0.00002	0.00002
	(!B * !Y)	-0.00006	-0.00005	-0.00004
	(!B * !Y)	-0.00013	-0.00013	-0.00012
	(!A * B * !Y)	0.00035	0.00035	0.00036
	(!A * B * !Y)	0.00001	0.00002	0.00002
	(!A * B * !Y)	-0.00005	-0.00005	-0.00004
	(!A * B * !Y)	-0.00013	-0.00013	-0.00012

AND3X6H7H

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

Cell Description

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



Truth Table

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

Footprint

Cell Name	Area
AND3X6H7H	4.48000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
AND3X6H7H	0.00202	0.00187	0.00171	0.17199

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AND3X6H7H	0.00000	0.04553	0.09135

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND3X6H7H	A->Y (RR)	0.12231	0.30676	0.74816
	B->Y (RR)	0.11777	0.30825	0.76345
	C->Y (RR)	0.11006	0.29872	0.74734

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND3X6H7H	A->Y (FF)	0.07496	0.23104	0.60203
	B->Y (FF)	0.07090	0.22539	0.59206
	C->Y (FF)	0.06632	0.21902	0.58026

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND3X6H7H	A	0.00187	0.00207	0.00230
	A	0.00003	0.00003	0.00003
	A	-0.00007	-0.00006	-0.00006
	A	0.00412	0.00432	0.00455
	B	0.00190	0.00208	0.00230
	B	0.00003	0.00003	0.00004
	B	0.00000	0.00000	0.00000
	B	0.00373	0.00391	0.00413
	C	0.00190	0.00207	0.00230
	C	0.00003	0.00003	0.00003
	C	0.00008	0.00008	0.00009
	C	0.00332	0.00351	0.00372

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND3X6H7H	A	0.00426	0.00448	0.00469
	A	-0.00003	-0.00003	-0.00003
	A	0.00006	0.00006	0.00007
	A	0.00212	0.00233	0.00254
	B	0.00397	0.00419	0.00438
	B	-0.00003	-0.00003	-0.00001
	B	0.00000	0.00000	0.00000
	B	0.00219	0.00241	0.00260
	C	0.00367	0.00388	0.00407
	C	-0.00003	-0.00003	-0.00001
	C	-0.00008	-0.00008	-0.00007
	C	0.00223	0.00244	0.00264

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X6H7H	(B * !C * !Y)	-0.00042	-0.00041	-0.00041
	(B * !C * !Y)	-0.00002	-0.00002	-0.00002
	(B * !C * !Y)	0.00002	0.00003	0.00004
	(B * !C * !Y)	0.00041	0.00042	0.00043
	(!B * C * !Y)	-0.00042	-0.00041	-0.00041
	(!B * C * !Y)	-0.00002	-0.00002	-0.00002
	(!B * C * !Y)	0.00002	0.00003	0.00004
	(!B * C * !Y)	0.00042	0.00043	0.00044
	(!B * !C * !Y)	-0.00042	-0.00041	-0.00041
	(!B * !C * !Y)	-0.00002	-0.00002	-0.00002
	(!B * !C * !Y)	0.00003	0.00003	0.00003
	(!B * !C * !Y)	0.00042	0.00043	0.00043

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X6H7H	(B * !C * !Y)	0.00041	0.00041	0.00042
	(B * !C * !Y)	0.00002	0.00002	0.00002
	(B * !C * !Y)	-0.00004	-0.00003	-0.00002
	(B * !C * !Y)	-0.00042	-0.00040	-0.00037
	(!B * C * !Y)	0.00041	0.00042	0.00042
	(!B * C * !Y)	0.00002	0.00002	0.00002
	(!B * C * !Y)	-0.00004	-0.00003	-0.00002
	(!B * C * !Y)	-0.00043	-0.00042	-0.00039
	(!B * !C * !Y)	0.00041	0.00042	0.00042
	(!B * !C * !Y)	0.00002	0.00002	0.00002
	(!B * !C * !Y)	-0.00003	-0.00003	-0.00003
	(!B * !C * !Y)	-0.00043	-0.00042	-0.00039

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X6H7H	(A * !C * !Y)	-0.00034	-0.00034	-0.00034
	(A * !C * !Y)	-0.00002	-0.00002	-0.00002
	(A * !C * !Y)	0.00001	0.00002	0.00003
	(A * !C * !Y)	0.00040	0.00040	0.00042
	(!A * C * !Y)	-0.00034	-0.00034	-0.00034
	(!A * C * !Y)	-0.00002	-0.00002	-0.00002
	(!A * C * !Y)	0.00007	0.00008	0.00009
	(!A * C * !Y)	0.00014	0.00015	0.00016
	(!A * !C * !Y)	-0.00034	-0.00034	-0.00034
	(!A * !C * !Y)	-0.00002	-0.00002	-0.00002
	(!A * !C * !Y)	0.00009	0.00010	0.00010
	(!A * !C * !Y)	0.00014	0.00014	0.00015

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X6H7H	(A * !C * !Y)	0.00034	0.00035	0.00037
	(A * !C * !Y)	0.00002	0.00002	0.00002
	(A * !C * !Y)	-0.00003	-0.00002	-0.00001
	(A * !C * !Y)	-0.00040	-0.00037	-0.00032
	(!A * C * !Y)	0.00034	0.00034	0.00034
	(!A * C * !Y)	0.00002	0.00002	0.00002
	(!A * C * !Y)	-0.00008	-0.00008	-0.00007
	(!A * C * !Y)	-0.00015	-0.00014	-0.00013
	(!A * !C * !Y)	0.00034	0.00034	0.00034
	(!A * !C * !Y)	0.00002	0.00002	0.00002
	(!A * !C * !Y)	-0.00010	-0.00010	-0.00009
	(!A * !C * !Y)	-0.00015	-0.00014	-0.00014

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X6H7H	(!B * !Y)	-0.00041	-0.00041	-0.00040
	(!B * !Y)	-0.00002	-0.00002	-0.00002
	(!B * !Y)	0.00005	0.00005	0.00005
	(!B * !Y)	0.00013	0.00013	0.00013
	(!A * B * !Y)	-0.00041	-0.00041	-0.00040
	(!A * B * !Y)	-0.00002	-0.00002	-0.00002
	(!A * B * !Y)	0.00004	0.00005	0.00005
	(!A * B * !Y)	0.00012	0.00013	0.00013

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

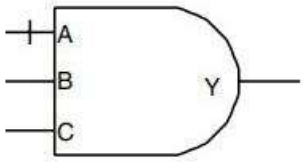
Cell Name	When	Power(pJ)		
		min	avg	max
AND3X6H7H	(!B * !Y)	0.00040	0.00041	0.00041
	(!B * !Y)	0.00002	0.00002	0.00002
	(!B * !Y)	-0.00005	-0.00005	-0.00005
	(!B * !Y)	-0.00013	-0.00013	-0.00013
	(!A * B * !Y)	0.00040	0.00041	0.00041
	(!A * B * !Y)	0.00002	0.00002	0.00002
	(!A * B * !Y)	-0.00005	-0.00005	-0.00004
	(!A * B * !Y)	-0.00013	-0.00013	-0.00012

AND3X8H7H

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

Cell Description

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



Truth Table

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

Footprint

Cell Name	Area
AND3X8H7H	4.48000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
AND3X8H7H	0.00237	0.00216	0.00201	0.22804

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AND3X8H7H	0.00000	0.06929	0.11336

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND3X8H7H	A->Y (RR)	0.09802	0.28091	0.72264
	B->Y (RR)	0.09385	0.28016	0.72909
	C->Y (RR)	0.08700	0.26826	0.70300

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND3X8H7H	A->Y (FF)	0.07145	0.22795	0.60067
	B->Y (FF)	0.06706	0.22175	0.58926
	C->Y (FF)	0.06243	0.21483	0.57604

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND3X8H7H	A	0.00251	0.00279	0.00308
	A	0.00005	0.00006	0.00006
	A	-0.00020	-0.00019	-0.00018
	A	0.00553	0.00581	0.00610
	B	0.00255	0.00280	0.00308
	B	0.00005	0.00006	0.00006
	B	-0.00006	-0.00006	-0.00005
	B	0.00493	0.00519	0.00546
	C	0.00253	0.00278	0.00307
	C	0.00005	0.00005	0.00006
	C	0.00005	0.00008	0.00009
	C	0.00433	0.00458	0.00487

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND3X8H7H	A	0.00549	0.00577	0.00604
	A	-0.00006	-0.00005	-0.00004
	A	0.00018	0.00019	0.00020
	A	0.00266	0.00295	0.00322
	B	0.00505	0.00534	0.00560
	B	-0.00006	-0.00005	0.00001
	B	0.00005	0.00006	0.00006
	B	0.00276	0.00304	0.00331
	C	0.00459	0.00489	0.00515
	C	-0.00006	-0.00005	-0.00004
	C	-0.00009	-0.00008	-0.00005
	C	0.00280	0.00308	0.00336

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X8H7H	(B * !C * !Y)	-0.00050	-0.00049	-0.00049
	(B * !C * !Y)	-0.00002	-0.00002	-0.00002
	(B * !C * !Y)	0.00005	0.00005	0.00007
	(B * !C * !Y)	0.00049	0.00051	0.00052
	(!B * C * !Y)	-0.00050	-0.00049	-0.00049
	(!B * C * !Y)	-0.00002	-0.00002	-0.00002
	(!B * C * !Y)	0.00004	0.00005	0.00007
	(!B * C * !Y)	0.00051	0.00053	0.00054
	(!B * !C * !Y)	-0.00050	-0.00049	-0.00049
	(!B * !C * !Y)	-0.00002	-0.00002	-0.00002
	(!B * !C * !Y)	0.00005	0.00005	0.00005
	(!B * !C * !Y)	0.00053	0.00053	0.00053

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X8H7H	(B * !C * !Y)	0.00049	0.00050	0.00050
	(B * !C * !Y)	0.00002	0.00002	0.00003
	(B * !C * !Y)	-0.00007	-0.00005	-0.00005
	(B * !C * !Y)	-0.00052	-0.00049	-0.00044
	(!B * C * !Y)	0.00049	0.00049	0.00050
	(!B * C * !Y)	0.00002	0.00002	0.00003
	(!B * C * !Y)	-0.00007	-0.00005	-0.00004
	(!B * C * !Y)	-0.00053	-0.00051	-0.00047
	(!B * !C * !Y)	0.00049	0.00049	0.00050
	(!B * !C * !Y)	0.00002	0.00002	0.00002
	(!B * !C * !Y)	-0.00005	-0.00005	-0.00005
	(!B * !C * !Y)	-0.00053	-0.00051	-0.00047

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X8H7H	(A * !C * !Y)	-0.00040	-0.00040	-0.00040
	(A * !C * !Y)	-0.00002	-0.00002	-0.00002
	(A * !C * !Y)	0.00002	0.00004	0.00005
	(A * !C * !Y)	0.00049	0.00049	0.00051
	(!A * C * !Y)	-0.00041	-0.00040	-0.00040
	(!A * C * !Y)	-0.00002	-0.00002	-0.00002
	(!A * C * !Y)	0.00014	0.00015	0.00017
	(!A * C * !Y)	0.00009	0.00012	0.00012
	(!A * !C * !Y)	-0.00041	-0.00040	-0.00040
	(!A * !C * !Y)	-0.00002	-0.00002	-0.00002
	(!A * !C * !Y)	0.00016	0.00017	0.00018
	(!A * !C * !Y)	0.00011	0.00012	0.00013

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X8H7H	(A * !C * !Y)	0.00041	0.00042	0.00044
	(A * !C * !Y)	0.00002	0.00002	0.00002
	(A * !C * !Y)	-0.00005	-0.00004	-0.00002
	(A * !C * !Y)	-0.00048	-0.00045	-0.00041
	(!A * C * !Y)	0.00041	0.00041	0.00041
	(!A * C * !Y)	0.00002	0.00002	0.00003
	(!A * C * !Y)	-0.00014	-0.00014	-0.00014
	(!A * C * !Y)	-0.00012	-0.00012	-0.00009
	(!A * !C * !Y)	0.00041	0.00041	0.00041
	(!A * !C * !Y)	0.00002	0.00002	0.00003
	(!A * !C * !Y)	-0.00018	-0.00017	-0.00016
	(!A * !C * !Y)	-0.00012	-0.00012	-0.00011

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X8H7H	(!B * !Y)	-0.00055	-0.00055	-0.00054
	(!B * !Y)	-0.00003	-0.00002	-0.00002
	(!B * !Y)	0.00007	0.00008	0.00009
	(!B * !Y)	0.00010	0.00010	0.00012
	(!A * B * !Y)	-0.00055	-0.00055	-0.00054
	(!A * B * !Y)	-0.00003	-0.00002	-0.00002
	(!A * B * !Y)	0.00007	0.00008	0.00008
	(!A * B * !Y)	0.00009	0.00010	0.00012

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

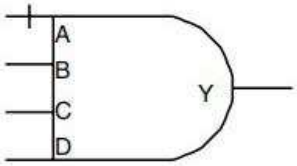
Cell Name	When	Power(pJ)		
		min	avg	max
AND3X8H7H	(!B * !Y)	0.00054	0.00055	0.00055
	(!B * !Y)	0.00002	0.00002	0.00003
	(!B * !Y)	-0.00008	-0.00008	-0.00007
	(!B * !Y)	-0.00010	-0.00010	-0.00009
	(!A * B * !Y)	0.00054	0.00055	0.00055
	(!A * B * !Y)	0.00002	0.00002	0.00003
	(!A * B * !Y)	-0.00008	-0.00008	-0.00007
	(!A * B * !Y)	-0.00010	-0.00010	-0.00009

AND4X0P5H7H

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

Cell Description

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



Truth Table

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

Footprint

Cell Name	Area
AND4X0P5H7H	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A	B	C	D	Y
AND4X0P5H7H	0.00085	0.00078	0.00077	0.00091	0.03021

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AND4X0P5H7H	0.00000	0.01364	0.03608

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND4X0P5H7H	A->Y (RR)	0.14435	0.31667	0.73758
	B->Y (RR)	0.14052	0.31672	0.74856
	C->Y (RR)	0.13367	0.31313	0.75230
	D->Y (RR)	0.12906	0.30403	0.73225

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND4X0P5H7H	A->Y (FF)	0.08530	0.23309	0.59067
	B->Y (FF)	0.08137	0.22737	0.57995
	C->Y (FF)	0.07667	0.22060	0.56690
	D->Y (FF)	0.07391	0.21535	0.55589

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND4X0P5H7H	A	0.00042	0.00048	0.00054
	A	0.00006	0.00007	0.00007
	A	-0.00011	-0.00011	-0.00010
	A	0.00183	0.00189	0.00195
	B	0.00043	0.00048	0.00054
	B	0.00006	0.00007	0.00007
	B	-0.00007	-0.00007	-0.00007
	B	0.00162	0.00167	0.00173
	C	0.00044	0.00049	0.00054
	C	0.00006	0.00007	0.00007
	C	-0.00004	-0.00004	-0.00003
	C	0.00146	0.00151	0.00156
	D	0.00041	0.00047	0.00053
	D	0.00006	0.00007	0.00007
	D	-0.00000	0.00000	0.00002
	D	0.00133	0.00139	0.00146

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND4X0P5H7H	A	0.00179	0.00184	0.00190
	A	-0.00007	-0.00007	-0.00006
	A	0.00010	0.00011	0.00011
	A	0.00046	0.00052	0.00057
	B	0.00166	0.00171	0.00177
	B	-0.00007	-0.00007	-0.00006
	B	0.00007	0.00007	0.00007
	B	0.00052	0.00058	0.00063
	C	0.00152	0.00158	0.00162
	C	-0.00007	-0.00007	-0.00006
	C	0.00003	0.00004	0.00004
	C	0.00052	0.00058	0.00063
	D	0.00142	0.00148	0.00154
	D	-0.00007	-0.00007	-0.00006
	D	-0.00000	0.00000	0.00000
	D	0.00050	0.00056	0.00062

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X0P5H7H	(B * C * !D * !Y)	-0.00016	-0.00016	-0.00016
	(B * C * !D * !Y)	-0.00001	-0.00001	-0.00001
	(B * C * !D * !Y)	0.00001	0.00002	0.00002
	(B * C * !D * !Y)	0.00022	0.00022	0.00023
	(B * !C * D * !Y)	-0.00016	-0.00016	-0.00016
	(B * !C * D * !Y)	-0.00001	-0.00001	-0.00001
	(B * !C * D * !Y)	0.00001	0.00001	0.00002
	(B * !C * D * !Y)	0.00022	0.00023	0.00023
	(B * !C * !D * !Y)	-0.00016	-0.00016	-0.00016
	(B * !C * !D * !Y)	-0.00001	-0.00001	-0.00001
	(B * !C * !D * !Y)	0.00001	0.00001	0.00001
	(B * !C * !D * !Y)	0.00022	0.00023	0.00023
	(!B * C * D * !Y)	-0.00016	-0.00016	-0.00016
	(!B * C * D * !Y)	-0.00001	-0.00001	-0.00001
	(!B * C * D * !Y)	0.00001	0.00001	0.00002
	(!B * C * D * !Y)	0.00023	0.00023	0.00023
	(!B * !D * !Y)	-0.00016	-0.00016	-0.00016
	(!B * !D * !Y)	-0.00001	-0.00001	-0.00001
	(!B * !D * !Y)	0.00001	0.00001	0.00001
	(!B * !D * !Y)	0.00023	0.00023	0.00023
	(!B * !C * D * !Y)	-0.00016	-0.00016	-0.00016
	(!B * !C * D * !Y)	-0.00001	-0.00001	-0.00001
	(!B * !C * D * !Y)	0.00001	0.00001	0.00001
	(!B * !C * D * !Y)	0.00023	0.00023	0.00023

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X0P5H7H	(B * C * !D * !Y)	0.00016	0.00016	0.00016
	(B * C * !D * !Y)	0.00001	0.00001	0.00001
	(B * C * !D * !Y)	-0.00002	-0.00002	-0.00001
	(B * C * !D * !Y)	-0.00023	-0.00021	-0.00020
	(B * !C * D * !Y)	0.00016	0.00016	0.00016
	(B * !C * D * !Y)	0.00001	0.00001	0.00001
	(B * !C * D * !Y)	-0.00002	-0.00001	-0.00001
	(B * !C * D * !Y)	-0.00023	-0.00022	-0.00019
	(B * !C * !D * !Y)	0.00016	0.00016	0.00016
	(B * !C * !D * !Y)	0.00001	0.00001	0.00001
	(B * !C * !D * !Y)	-0.00001	-0.00001	-0.00001
	(B * !C * !D * !Y)	-0.00023	-0.00022	-0.00020
	(!B * C * D * !Y)	0.00016	0.00016	0.00016
	(!B * C * D * !Y)	0.00001	0.00001	0.00001
	(!B * C * D * !Y)	-0.00002	-0.00001	-0.00001
	(!B * C * D * !Y)	-0.00023	-0.00022	-0.00021
	(!B * !D * !Y)	0.00016	0.00016	0.00016
	(!B * !D * !Y)	0.00001	0.00001	0.00001
	(!B * !D * !Y)	-0.00001	-0.00001	-0.00001
	(!B * !D * !Y)	-0.00023	-0.00022	-0.00021
	(!B * !C * D * !Y)	0.00016	0.00016	0.00016
	(!B * !C * D * !Y)	0.00001	0.00001	0.00001
	(!B * !C * D * !Y)	-0.00001	-0.00001	-0.00001
	(!B * !C * D * !Y)	-0.00023	-0.00022	-0.00021

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X0P5H7H	(A * C * !D * !Y)	-0.00014	-0.00014	-0.00014
	(A * C * !D * !Y)	-0.00001	-0.00001	-0.00001
	(A * C * !D * !Y)	0.00001	0.00001	0.00002
	(A * C * !D * !Y)	0.00018	0.00018	0.00018
	(A * !C * D * !Y)	-0.00014	-0.00014	-0.00014
	(A * !C * D * !Y)	-0.00001	-0.00001	-0.00001
	(A * !C * D * !Y)	0.00001	0.00001	0.00001
	(A * !C * D * !Y)	0.00018	0.00019	0.00019
	(A * !C * !D * !Y)	-0.00014	-0.00014	-0.00014
	(A * !C * !D * !Y)	-0.00001	-0.00001	-0.00001
	(A * !C * !D * !Y)	0.00001	0.00001	0.00001
	(A * !C * !D * !Y)	0.00018	0.00018	0.00018
	(!A * C * D * !Y)	-0.00014	-0.00014	-0.00014
	(!A * C * D * !Y)	-0.00001	-0.00001	-0.00001
	(!A * C * D * !Y)	0.00004	0.00004	0.00005
	(!A * C * D * !Y)	0.00006	0.00006	0.00006
	(!A * C * !D * !Y)	-0.00014	-0.00014	-0.00014
	(!A * C * !D * !Y)	-0.00001	-0.00001	-0.00001
	(!A * C * !D * !Y)	0.00005	0.00005	0.00005
	(!A * C * !D * !Y)	0.00006	0.00006	0.00006
	(!A * !C * D * !Y)	-0.00014	-0.00014	-0.00014
	(!A * !C * D * !Y)	-0.00001	-0.00001	-0.00001
	(!A * !C * D * !Y)	0.00005	0.00005	0.00005
	(!A * !C * D * !Y)	0.00006	0.00006	0.00006
	(!A * !C * !D * !Y)	-0.00014	-0.00014	-0.00014
	(!A * !C * !D * !Y)	-0.00001	-0.00001	-0.00001
	(!A * !C * !D * !Y)	0.00005	0.00005	0.00005
	(!A * !C * !D * !Y)	0.00006	0.00006	0.00006

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X0P5H7H	(A * C * !D * !Y)	0.00014	0.00014	0.00014
	(A * C * !D * !Y)	0.00001	0.00001	0.00001
	(A * C * !D * !Y)	-0.00002	-0.00001	-0.00001
	(A * C * !D * !Y)	-0.00018	-0.00016	-0.00014
	(A * !C * D * !Y)	0.00014	0.00014	0.00014
	(A * !C * D * !Y)	0.00001	0.00001	0.00001
	(A * !C * D * !Y)	-0.00001	-0.00001	-0.00001
	(A * !C * D * !Y)	-0.00019	-0.00017	-0.00016
	(A * !C * !D * !Y)	0.00014	0.00014	0.00014
	(A * !C * !D * !Y)	0.00001	0.00001	0.00001
	(A * !C * !D * !Y)	-0.00001	-0.00001	-0.00001
	(A * !C * !D * !Y)	-0.00018	-0.00018	-0.00016
	(!A * C * D * !Y)	0.00014	0.00014	0.00014
	(!A * C * D * !Y)	0.00001	0.00001	0.00001
	(!A * C * D * !Y)	-0.00004	-0.00004	-0.00004
	(!A * C * D * !Y)	-0.00006	-0.00006	-0.00006
	(!A * C * !D * !Y)	0.00014	0.00014	0.00014
	(!A * C * !D * !Y)	0.00001	0.00001	0.00001
	(!A * C * !D * !Y)	-0.00005	-0.00005	-0.00005
	(!A * C * !D * !Y)	-0.00006	-0.00006	-0.00006
	(!A * !C * D * !Y)	0.00014	0.00014	0.00014
	(!A * !C * D * !Y)	0.00001	0.00001	0.00001
	(!A * !C * D * !Y)	-0.00005	-0.00005	-0.00005
	(!A * !C * D * !Y)	-0.00006	-0.00006	-0.00006
	(!A * !C * !D * !Y)	0.00014	0.00014	0.00014
	(!A * !C * !D * !Y)	0.00001	0.00001	0.00001
	(!A * !C * !D * !Y)	-0.00005	-0.00005	-0.00005
	(!A * !C * !D * !Y)	-0.00006	-0.00006	-0.00006

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X0P5H7H	(A * B * !D * !Y)	-0.00013	-0.00013	-0.00012
	(A * B * !D * !Y)	-0.00001	-0.00001	-0.00001
	(A * B * !D * !Y)	0.00001	0.00001	0.00002
	(A * B * !D * !Y)	0.00019	0.00019	0.00019
	(!B * D * !Y)	-0.00013	-0.00013	-0.00012
	(!B * D * !Y)	-0.00001	-0.00001	-0.00001
	(!B * D * !Y)	0.00004	0.00004	0.00005
	(!B * D * !Y)	0.00006	0.00006	0.00007
	(!B * !D * !Y)	-0.00013	-0.00013	-0.00012
	(!B * !D * !Y)	-0.00001	-0.00001	-0.00001
	(!B * !D * !Y)	0.00005	0.00005	0.00005
	(!B * !D * !Y)	0.00006	0.00006	0.00007
	(!A * B * D * !Y)	-0.00013	-0.00013	-0.00012
	(!A * B * D * !Y)	-0.00001	-0.00001	-0.00001
	(!A * B * D * !Y)	0.00004	0.00004	0.00005
	(!A * B * D * !Y)	0.00006	0.00006	0.00007
	(!A * B * !D * !Y)	-0.00013	-0.00013	-0.00012
	(!A * B * !D * !Y)	-0.00001	-0.00001	-0.00001
	(!A * B * !D * !Y)	0.00005	0.00005	0.00005
	(!A * B * !D * !Y)	0.00006	0.00006	0.00007

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X0P5H7H	(A * B * !D * !Y)	0.00013	0.00013	0.00014
	(A * B * !D * !Y)	0.00001	0.00001	0.00001
	(A * B * !D * !Y)	-0.00001	-0.00001	-0.00001
	(A * B * !D * !Y)	-0.00019	-0.00018	-0.00017
	(!B * D * !Y)	0.00012	0.00013	0.00013
	(!B * D * !Y)	0.00001	0.00001	0.00001
	(!B * D * !Y)	-0.00004	-0.00004	-0.00004
	(!B * D * !Y)	-0.00007	-0.00006	-0.00006
	(!B * !D * !Y)	0.00013	0.00013	0.00013
	(!B * !D * !Y)	0.00001	0.00001	0.00001
	(!B * !D * !Y)	-0.00005	-0.00005	-0.00005
	(!B * !D * !Y)	-0.00006	-0.00006	-0.00006
	(!A * B * D * !Y)	0.00012	0.00013	0.00013
	(!A * B * D * !Y)	0.00001	0.00001	0.00001
	(!A * B * D * !Y)	-0.00005	-0.00004	-0.00004
	(!A * B * D * !Y)	-0.00007	-0.00006	-0.00006
	(!A * B * !D * !Y)	0.00013	0.00013	0.00013
	(!A * B * !D * !Y)	0.00001	0.00001	0.00001
	(!A * B * !D * !Y)	-0.00005	-0.00005	-0.00005
	(!A * B * !D * !Y)	-0.00006	-0.00006	-0.00006

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X0P5H7H	(!C * !Y)	-0.00024	-0.00024	-0.00024
	(!C * !Y)	-0.00001	-0.00001	-0.00001
	(!C * !Y)	0.00003	0.00003	0.00003
	(!C * !Y)	0.00007	0.00007	0.00007
	(!B * C * !Y)	-0.00024	-0.00024	-0.00024
	(!B * C * !Y)	-0.00001	-0.00001	-0.00001
	(!B * C * !Y)	0.00002	0.00002	0.00002
	(!B * C * !Y)	0.00007	0.00007	0.00008
	(!A * B * C * !Y)	-0.00024	-0.00024	-0.00024
	(!A * B * C * !Y)	-0.00001	-0.00001	-0.00001
	(!A * B * C * !Y)	0.00002	0.00003	0.00003
	(!A * B * C * !Y)	0.00007	0.00007	0.00008

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

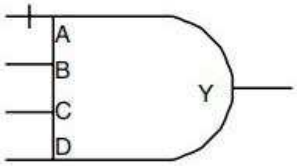
Cell Name	When	Power(pJ)		
		min	avg	max
AND4X0P5H7H	(!C * !Y)	0.00024	0.00024	0.00024
	(!C * !Y)	0.00001	0.00001	0.00001
	(!C * !Y)	-0.00003	-0.00003	-0.00002
	(!C * !Y)	-0.00007	-0.00007	-0.00007
	(!B * C * !Y)	0.00024	0.00024	0.00024
	(!B * C * !Y)	0.00001	0.00001	0.00001
	(!B * C * !Y)	-0.00002	-0.00002	-0.00002
	(!B * C * !Y)	-0.00007	-0.00007	-0.00007
	(!A * B * C * !Y)	0.00024	0.00024	0.00024
	(!A * B * C * !Y)	0.00001	0.00001	0.00001
	(!A * B * C * !Y)	-0.00002	-0.00002	-0.00002
	(!A * B * C * !Y)	-0.00008	-0.00007	-0.00007

AND4X0P7H7H

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

Cell Description

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



Truth Table

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

Footprint

Cell Name	Area
AND4X0P7H7H	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A	B	C	D	Y
AND4X0P7H7H	0.00087	0.00080	0.00076	0.00091	0.03436

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AND4X0P7H7H	0.00000	0.01347	0.03813

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND4X0P7H7H	A->Y (RR)	0.14423	0.31783	0.74030
	B->Y (RR)	0.14046	0.31796	0.75150
	C->Y (RR)	0.13317	0.31411	0.75569
	D->Y (RR)	0.12854	0.30513	0.73595

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND4X0P7H7H	A->Y (FF)	0.08536	0.23467	0.59587
	B->Y (FF)	0.08141	0.22895	0.58503
	C->Y (FF)	0.07646	0.22207	0.57234
	D->Y (FF)	0.07372	0.21685	0.56122

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND4X0P7H7H	A	0.00044	0.00050	0.00057
	A	0.00006	0.00006	0.00007
	A	-0.00010	-0.00010	-0.00010
	A	0.00186	0.00192	0.00198
	B	0.00045	0.00051	0.00057
	B	0.00006	0.00006	0.00007
	B	-0.00007	-0.00007	-0.00007
	B	0.00165	0.00171	0.00177
	C	0.00047	0.00051	0.00057
	C	0.00006	0.00006	0.00007
	C	-0.00003	-0.00003	-0.00003
	C	0.00149	0.00154	0.00159
	D	0.00044	0.00049	0.00056
	D	0.00006	0.00006	0.00006
	D	0.00000	0.00000	0.00001
	D	0.00136	0.00142	0.00149

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND4X0P7H7H	A	0.00181	0.00187	0.00193
	A	-0.00006	-0.00006	-0.00005
	A	0.00010	0.00010	0.00010
	A	0.00048	0.00054	0.00060
	B	0.00169	0.00175	0.00180
	B	-0.00006	-0.00006	-0.00006
	B	0.00007	0.00007	0.00007
	B	0.00054	0.00060	0.00066
	C	0.00155	0.00160	0.00165
	C	-0.00006	-0.00006	-0.00006
	C	0.00003	0.00003	0.00003
	C	0.00055	0.00060	0.00065
	D	0.00144	0.00151	0.00158
	D	-0.00006	-0.00006	-0.00006
	D	-0.00000	-0.00000	0.00000
	D	0.00052	0.00059	0.00065

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X0P7H7H	(B * C * !D * !Y)	-0.00017	-0.00017	-0.00017
	(B * C * !D * !Y)	-0.00001	-0.00001	-0.00001
	(B * C * !D * !Y)	0.00001	0.00001	0.00002
	(B * C * !D * !Y)	0.00022	0.00022	0.00023
	(B * !C * D * !Y)	-0.00017	-0.00017	-0.00017
	(B * !C * D * !Y)	-0.00001	-0.00001	-0.00001
	(B * !C * D * !Y)	0.00001	0.00001	0.00002
	(B * !C * D * !Y)	0.00023	0.00023	0.00023
	(B * !C * !D * !Y)	-0.00017	-0.00017	-0.00017
	(B * !C * !D * !Y)	-0.00001	-0.00001	-0.00001
	(B * !C * !D * !Y)	0.00001	0.00001	0.00002
	(B * !C * !D * !Y)	0.00023	0.00023	0.00023
	(!B * C * D * !Y)	-0.00017	-0.00017	-0.00017
	(!B * C * D * !Y)	-0.00001	-0.00001	-0.00001
	(!B * C * D * !Y)	0.00001	0.00001	0.00001
	(!B * C * D * !Y)	0.00023	0.00023	0.00024
	(!B * !D * !Y)	-0.00017	-0.00017	-0.00017
	(!B * !D * !Y)	-0.00001	-0.00001	-0.00001
	(!B * !D * !Y)	0.00001	0.00001	0.00001
	(!B * !D * !Y)	0.00023	0.00023	0.00023
	(!B * !C * D * !Y)	-0.00017	-0.00017	-0.00017
	(!B * !C * D * !Y)	-0.00001	-0.00001	-0.00001
	(!B * !C * D * !Y)	0.00001	0.00001	0.00001
	(!B * !C * D * !Y)	0.00023	0.00023	0.00023

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X0P7H7H	(B * C * !D * !Y)	0.00017	0.00017	0.00017
	(B * C * !D * !Y)	0.00001	0.00001	0.00001
	(B * C * !D * !Y)	-0.00001	-0.00001	-0.00001
	(B * C * !D * !Y)	-0.00023	-0.00022	-0.00021
	(B * !C * D * !Y)	0.00017	0.00017	0.00017
	(B * !C * D * !Y)	0.00001	0.00001	0.00001
	(B * !C * D * !Y)	-0.00002	-0.00001	-0.00001
	(B * !C * D * !Y)	-0.00023	-0.00022	-0.00021
	(B * !C * !D * !Y)	0.00017	0.00017	0.00017
	(B * !C * !D * !Y)	0.00001	0.00001	0.00001
	(B * !C * !D * !Y)	-0.00002	-0.00001	-0.00001
	(B * !C * !D * !Y)	-0.00023	-0.00022	-0.00020
	(!B * C * D * !Y)	0.00017	0.00017	0.00017
	(!B * C * D * !Y)	0.00001	0.00001	0.00001
	(!B * C * D * !Y)	-0.00001	-0.00001	-0.00001
	(!B * C * D * !Y)	-0.00023	-0.00023	-0.00021
	(!B * !D * !Y)	0.00017	0.00017	0.00017
	(!B * !D * !Y)	0.00001	0.00001	0.00001
	(!B * !D * !Y)	-0.00001	-0.00001	-0.00001
	(!B * !D * !Y)	-0.00023	-0.00022	-0.00021
	(!B * !C * D * !Y)	0.00017	0.00017	0.00017
	(!B * !C * D * !Y)	0.00001	0.00001	0.00001
	(!B * !C * D * !Y)	-0.00001	-0.00001	-0.00001
	(!B * !C * D * !Y)	-0.00023	-0.00023	-0.00021

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X0P7H7H	(A * C * !D * !Y)	-0.00015	-0.00015	-0.00015
	(A * C * !D * !Y)	-0.00001	-0.00001	-0.00001
	(A * C * !D * !Y)	0.00001	0.00002	0.00002
	(A * C * !D * !Y)	0.00018	0.00018	0.00018
	(A * !C * D * !Y)	-0.00015	-0.00015	-0.00015
	(A * !C * D * !Y)	-0.00001	-0.00001	-0.00001
	(A * !C * D * !Y)	0.00001	0.00001	0.00002
	(A * !C * D * !Y)	0.00019	0.00019	0.00019
	(A * !C * !D * !Y)	-0.00015	-0.00015	-0.00015
	(A * !C * !D * !Y)	-0.00001	-0.00001	-0.00001
	(A * !C * !D * !Y)	0.00001	0.00001	0.00001
	(A * !C * !D * !Y)	0.00018	0.00018	0.00019
	(!A * C * D * !Y)	-0.00015	-0.00015	-0.00014
	(!A * C * D * !Y)	-0.00001	-0.00001	-0.00001
	(!A * C * D * !Y)	0.00004	0.00004	0.00004
	(!A * C * D * !Y)	0.00006	0.00006	0.00006
	(!A * C * !D * !Y)	-0.00015	-0.00015	-0.00015
	(!A * C * !D * !Y)	-0.00001	-0.00001	-0.00001
	(!A * C * !D * !Y)	0.00005	0.00005	0.00005
	(!A * C * !D * !Y)	0.00006	0.00006	0.00007
	(!A * !C * D * !Y)	-0.00015	-0.00015	-0.00015
	(!A * !C * D * !Y)	-0.00001	-0.00001	-0.00001
	(!A * !C * D * !Y)	0.00005	0.00005	0.00005
	(!A * !C * D * !Y)	0.00006	0.00006	0.00007
	(!A * !C * !D * !Y)	-0.00015	-0.00015	-0.00015
	(!A * !C * !D * !Y)	-0.00001	-0.00001	-0.00001
	(!A * !C * !D * !Y)	0.00005	0.00005	0.00005
	(!A * !C * !D * !Y)	0.00006	0.00006	0.00007

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X0P7H7H	(A * C * !D * !Y)	0.00015	0.00015	0.00015
	(A * C * !D * !Y)	0.00001	0.00001	0.00001
	(A * C * !D * !Y)	-0.00002	-0.00002	-0.00001
	(A * C * !D * !Y)	-0.00018	-0.00017	-0.00014
	(A * !C * D * !Y)	0.00015	0.00015	0.00015
	(A * !C * D * !Y)	0.00001	0.00001	0.00001
	(A * !C * D * !Y)	-0.00002	-0.00001	-0.00001
	(A * !C * D * !Y)	-0.00019	-0.00018	-0.00015
	(A * !C * !D * !Y)	0.00015	0.00015	0.00015
	(A * !C * !D * !Y)	0.00001	0.00001	0.00001
	(A * !C * !D * !Y)	-0.00001	-0.00001	-0.00001
	(A * !C * !D * !Y)	-0.00018	-0.00018	-0.00016
	(!A * C * D * !Y)	0.00015	0.00015	0.00015
	(!A * C * D * !Y)	0.00001	0.00001	0.00001
	(!A * C * D * !Y)	-0.00004	-0.00004	-0.00003
	(!A * C * D * !Y)	-0.00006	-0.00006	-0.00006
	(!A * C * !D * !Y)	0.00015	0.00015	0.00015
	(!A * C * !D * !Y)	0.00001	0.00001	0.00001
	(!A * C * !D * !Y)	-0.00005	-0.00005	-0.00005
	(!A * C * !D * !Y)	-0.00006	-0.00006	-0.00006
	(!A * !C * D * !Y)	0.00015	0.00015	0.00015
	(!A * !C * D * !Y)	0.00001	0.00001	0.00001
	(!A * !C * D * !Y)	-0.00005	-0.00005	-0.00005
	(!A * !C * D * !Y)	-0.00006	-0.00006	-0.00006
	(!A * !C * !D * !Y)	0.00015	0.00015	0.00015
	(!A * !C * !D * !Y)	0.00001	0.00001	0.00001
	(!A * !C * !D * !Y)	-0.00005	-0.00005	-0.00005
	(!A * !C * !D * !Y)	-0.00007	-0.00006	-0.00006

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X0P7H7H	(A * B * !D * !Y)	-0.00013	-0.00013	-0.00012
	(A * B * !D * !Y)	-0.00001	-0.00001	-0.00001
	(A * B * !D * !Y)	0.00001	0.00001	0.00002
	(A * B * !D * !Y)	0.00019	0.00019	0.00019
	(!B * D * !Y)	-0.00013	-0.00013	-0.00012
	(!B * D * !Y)	-0.00001	-0.00001	-0.00001
	(!B * D * !Y)	0.00004	0.00004	0.00004
	(!B * D * !Y)	0.00007	0.00007	0.00007
	(!B * !D * !Y)	-0.00013	-0.00013	-0.00012
	(!B * !D * !Y)	-0.00001	-0.00001	-0.00001
	(!B * !D * !Y)	0.00005	0.00005	0.00005
	(!B * !D * !Y)	0.00006	0.00007	0.00007
	(!A * B * D * !Y)	-0.00013	-0.00013	-0.00012
	(!A * B * D * !Y)	-0.00001	-0.00001	-0.00001
	(!A * B * D * !Y)	0.00004	0.00004	0.00005
	(!A * B * D * !Y)	0.00006	0.00006	0.00007
	(!A * B * !D * !Y)	-0.00013	-0.00013	-0.00012
	(!A * B * !D * !Y)	-0.00001	-0.00001	-0.00001
	(!A * B * !D * !Y)	0.00005	0.00005	0.00005
	(!A * B * !D * !Y)	0.00007	0.00006	0.00007

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X0P7H7H	(A * B * !D * !Y)	0.00013	0.00013	0.00014
	(A * B * !D * !Y)	0.00001	0.00001	0.00001
	(A * B * !D * !Y)	-0.00002	-0.00001	-0.00001
	(A * B * !D * !Y)	-0.00019	-0.00018	-0.00016
	(!B * D * !Y)	0.00012	0.00013	0.00013
	(!B * D * !Y)	0.00001	0.00001	0.00001
	(!B * D * !Y)	-0.00004	-0.00004	-0.00004
	(!B * D * !Y)	-0.00007	-0.00006	-0.00007
	(!B * !D * !Y)	0.00013	0.00013	0.00013
	(!B * !D * !Y)	0.00001	0.00001	0.00001
	(!B * !D * !Y)	-0.00005	-0.00005	-0.00005
	(!B * !D * !Y)	-0.00007	-0.00006	-0.00006
	(!A * B * D * !Y)	0.00012	0.00013	0.00013
	(!A * B * D * !Y)	0.00001	0.00001	0.00001
	(!A * B * D * !Y)	-0.00004	-0.00004	-0.00004
	(!A * B * D * !Y)	-0.00007	-0.00006	-0.00006
	(!A * B * !D * !Y)	0.00013	0.00013	0.00013
	(!A * B * !D * !Y)	0.00001	0.00001	0.00001
	(!A * B * !D * !Y)	-0.00005	-0.00005	-0.00005
	(!A * B * !D * !Y)	-0.00007	-0.00006	-0.00006

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X0P7H7H	(!C * !Y)	-0.00024	-0.00024	-0.00024
	(!C * !Y)	-0.00001	-0.00001	-0.00001
	(!C * !Y)	0.00002	0.00003	0.00003
	(!C * !Y)	0.00007	0.00007	0.00008
	(!B * C * !Y)	-0.00024	-0.00024	-0.00024
	(!B * C * !Y)	-0.00001	-0.00001	-0.00001
	(!B * C * !Y)	0.00002	0.00002	0.00002
	(!B * C * !Y)	0.00007	0.00007	0.00008
	(!A * B * C * !Y)	-0.00024	-0.00024	-0.00024
	(!A * B * C * !Y)	-0.00001	-0.00001	-0.00001
	(!A * B * C * !Y)	0.00002	0.00002	0.00003
	(!A * B * C * !Y)	0.00007	0.00007	0.00008

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

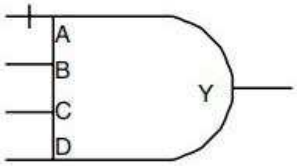
Cell Name	When	Power(pJ)		
		min	avg	max
AND4X0P7H7H	(!C * !Y)	0.00024	0.00024	0.00024
	(!C * !Y)	0.00001	0.00001	0.00001
	(!C * !Y)	-0.00003	-0.00002	-0.00002
	(!C * !Y)	-0.00007	-0.00007	-0.00007
	(!B * C * !Y)	0.00024	0.00024	0.00024
	(!B * C * !Y)	0.00001	0.00001	0.00001
	(!B * C * !Y)	-0.00002	-0.00002	-0.00002
	(!B * C * !Y)	-0.00007	-0.00007	-0.00007
	(!A * B * C * !Y)	0.00024	0.00024	0.00024
	(!A * B * C * !Y)	0.00001	0.00001	0.00001
	(!A * B * C * !Y)	-0.00002	-0.00002	-0.00002
	(!A * B * C * !Y)	-0.00007	-0.00007	-0.00007

AND4X1H7H

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

Cell Description

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



Truth Table

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

Footprint

Cell Name	Area
AND4X1H7H	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A	B	C	D	Y
AND4X1H7H	0.00087	0.00079	0.00076	0.00090	0.04112

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AND4X1H7H	0.00000	0.01348	0.04253

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND4X1H7H	A->Y (RR)	0.14291	0.31859	0.74350
	B->Y (RR)	0.13897	0.31856	0.75505
	C->Y (RR)	0.13201	0.31509	0.75989
	D->Y (RR)	0.12739	0.30615	0.74038

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND4X1H7H	A->Y (FF)	0.08508	0.23861	0.60960
	B->Y (FF)	0.08108	0.23282	0.59898
	C->Y (FF)	0.07625	0.22607	0.58652
	D->Y (FF)	0.07352	0.22089	0.57562

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND4X1H7H	A	0.00049	0.00055	0.00061
	A	0.00005	0.00006	0.00006
	A	-0.00010	-0.00010	-0.00010
	A	0.00189	0.00195	0.00201
	B	0.00050	0.00056	0.00062
	B	0.00005	0.00006	0.00006
	B	-0.00007	-0.00006	-0.00006
	B	0.00167	0.00173	0.00179
	C	0.00051	0.00056	0.00062
	C	0.00005	0.00006	0.00006
	C	-0.00003	-0.00003	-0.00003
	C	0.00151	0.00156	0.00162
	D	0.00048	0.00054	0.00061
	D	0.00005	0.00006	0.00006
	D	0.00001	0.00001	0.00001
	D	0.00138	0.00144	0.00151

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND4X1H7H	A	0.00184	0.00191	0.00196
	A	-0.00006	-0.00006	-0.00005
	A	0.00010	0.00010	0.00010
	A	0.00053	0.00059	0.00065
	B	0.00171	0.00177	0.00183
	B	-0.00006	-0.00006	-0.00005
	B	0.00006	0.00006	0.00007
	B	0.00059	0.00065	0.00071
	C	0.00157	0.00163	0.00169
	C	-0.00006	-0.00006	-0.00005
	C	0.00003	0.00003	0.00003
	C	0.00059	0.00065	0.00071
	D	0.00147	0.00154	0.00161
	D	-0.00006	-0.00006	-0.00005
	D	-0.00001	-0.00001	-0.00001
	D	0.00057	0.00064	0.00070

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X1H7H	(B * C * !D * !Y)	-0.00016	-0.00016	-0.00016
	(B * C * !D * !Y)	-0.00001	-0.00001	-0.00001
	(B * C * !D * !Y)	0.00001	0.00002	0.00002
	(B * C * !D * !Y)	0.00023	0.00023	0.00024
	(B * !C * D * !Y)	-0.00016	-0.00016	-0.00016
	(B * !C * D * !Y)	-0.00001	-0.00001	-0.00001
	(B * !C * D * !Y)	0.00001	0.00001	0.00002
	(B * !C * D * !Y)	0.00023	0.00023	0.00024
	(B * !C * !D * !Y)	-0.00016	-0.00016	-0.00016
	(B * !C * !D * !Y)	-0.00001	-0.00001	-0.00001
	(B * !C * !D * !Y)	0.00001	0.00001	0.00002
	(B * !C * !D * !Y)	0.00023	0.00023	0.00024
	(!B * C * D * !Y)	-0.00016	-0.00016	-0.00016
	(!B * C * D * !Y)	-0.00001	-0.00001	-0.00001
	(!B * C * D * !Y)	0.00001	0.00001	0.00002
	(!B * C * D * !Y)	0.00024	0.00024	0.00024
	(!B * !D * !Y)	-0.00016	-0.00016	-0.00016
	(!B * !D * !Y)	-0.00001	-0.00001	-0.00001
	(!B * !D * !Y)	0.00001	0.00001	0.00002
	(!B * !D * !Y)	0.00024	0.00024	0.00024
	(!B * !C * D * !Y)	-0.00016	-0.00016	-0.00016
	(!B * !C * D * !Y)	-0.00001	-0.00001	-0.00001
	(!B * !C * D * !Y)	0.00001	0.00001	0.00002
	(!B * !C * D * !Y)	0.00024	0.00024	0.00024

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X1H7H	(B * C * !D * !Y)	0.00016	0.00016	0.00016
	(B * C * !D * !Y)	0.00001	0.00001	0.00001
	(B * C * !D * !Y)	-0.00002	-0.00002	-0.00001
	(B * C * !D * !Y)	-0.00023	-0.00022	-0.00020
	(B * !C * D * !Y)	0.00016	0.00016	0.00016
	(B * !C * D * !Y)	0.00001	0.00001	0.00001
	(B * !C * D * !Y)	-0.00002	-0.00001	-0.00001
	(B * !C * D * !Y)	-0.00024	-0.00023	-0.00021
	(B * !C * !D * !Y)	0.00016	0.00016	0.00016
	(B * !C * !D * !Y)	0.00001	0.00001	0.00001
	(B * !C * !D * !Y)	-0.00002	-0.00001	-0.00001
	(B * !C * !D * !Y)	-0.00024	-0.00022	-0.00021
	(!B * C * D * !Y)	0.00016	0.00016	0.00016
	(!B * C * D * !Y)	0.00001	0.00001	0.00001
	(!B * C * D * !Y)	-0.00002	-0.00001	-0.00001
	(!B * C * D * !Y)	-0.00024	-0.00023	-0.00022
	(!B * !D * !Y)	0.00016	0.00016	0.00016
	(!B * !D * !Y)	0.00001	0.00001	0.00001
	(!B * !D * !Y)	-0.00002	-0.00001	-0.00001
	(!B * !D * !Y)	-0.00024	-0.00023	-0.00022
	(!B * !C * D * !Y)	0.00016	0.00016	0.00016
	(!B * !C * D * !Y)	0.00001	0.00001	0.00001
	(!B * !C * D * !Y)	-0.00002	-0.00001	-0.00001
	(!B * !C * D * !Y)	-0.00024	-0.00023	-0.00022

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X1H7H	(A * C * !D * !Y)	-0.00014	-0.00014	-0.00014
	(A * C * !D * !Y)	-0.00001	-0.00001	-0.00001
	(A * C * !D * !Y)	0.00001	0.00002	0.00002
	(A * C * !D * !Y)	0.00017	0.00018	0.00018
	(A * !C * D * !Y)	-0.00014	-0.00014	-0.00014
	(A * !C * D * !Y)	-0.00001	-0.00001	-0.00001
	(A * !C * D * !Y)	0.00001	0.00001	0.00001
	(A * !C * D * !Y)	0.00018	0.00018	0.00019
	(A * !C * !D * !Y)	-0.00014	-0.00014	-0.00014
	(A * !C * !D * !Y)	-0.00001	-0.00001	-0.00001
	(A * !C * !D * !Y)	0.00001	0.00001	0.00001
	(A * !C * !D * !Y)	0.00018	0.00018	0.00018
	(!A * C * D * !Y)	-0.00014	-0.00014	-0.00014
	(!A * C * D * !Y)	-0.00001	-0.00001	-0.00001
	(!A * C * D * !Y)	0.00004	0.00004	0.00004
	(!A * C * D * !Y)	0.00006	0.00006	0.00006
	(!A * C * !D * !Y)	-0.00014	-0.00014	-0.00014
	(!A * C * !D * !Y)	-0.00001	-0.00001	-0.00001
	(!A * C * !D * !Y)	0.00005	0.00005	0.00005
	(!A * C * !D * !Y)	0.00006	0.00006	0.00006
	(!A * !C * D * !Y)	-0.00014	-0.00014	-0.00014
	(!A * !C * D * !Y)	-0.00001	-0.00001	-0.00001
	(!A * !C * D * !Y)	0.00005	0.00005	0.00005
	(!A * !C * D * !Y)	0.00006	0.00006	0.00006
	(!A * !C * !D * !Y)	-0.00014	-0.00014	-0.00014
	(!A * !C * !D * !Y)	-0.00001	-0.00001	-0.00001
	(!A * !C * !D * !Y)	0.00005	0.00005	0.00005
	(!A * !C * !D * !Y)	0.00006	0.00006	0.00006

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X1H7H	(A * C * !D * !Y)	0.00014	0.00014	0.00014
	(A * C * !D * !Y)	0.00001	0.00001	0.00001
	(A * C * !D * !Y)	-0.00002	-0.00002	-0.00001
	(A * C * !D * !Y)	-0.00018	-0.00016	-0.00014
	(A * !C * D * !Y)	0.00014	0.00014	0.00014
	(A * !C * D * !Y)	0.00001	0.00001	0.00001
	(A * !C * D * !Y)	-0.00001	-0.00001	-0.00001
	(A * !C * D * !Y)	-0.00018	-0.00017	-0.00015
	(A * !C * !D * !Y)	0.00014	0.00014	0.00014
	(A * !C * !D * !Y)	0.00001	0.00001	0.00001
	(A * !C * !D * !Y)	-0.00001	-0.00001	-0.00001
	(A * !C * !D * !Y)	-0.00018	-0.00017	-0.00016
	(!A * C * D * !Y)	0.00014	0.00014	0.00014
	(!A * C * D * !Y)	0.00001	0.00001	0.00001
	(!A * C * D * !Y)	-0.00004	-0.00004	-0.00003
	(!A * C * D * !Y)	-0.00006	-0.00006	-0.00006
	(!A * C * !D * !Y)	0.00014	0.00014	0.00014
	(!A * C * !D * !Y)	0.00001	0.00001	0.00001
	(!A * C * !D * !Y)	-0.00005	-0.00005	-0.00005
	(!A * C * !D * !Y)	-0.00006	-0.00006	-0.00006
	(!A * !C * D * !Y)	0.00014	0.00014	0.00014
	(!A * !C * D * !Y)	0.00001	0.00001	0.00001
	(!A * !C * D * !Y)	-0.00005	-0.00005	-0.00005
	(!A * !C * D * !Y)	-0.00006	-0.00006	-0.00006
	(!A * !C * !D * !Y)	0.00014	0.00014	0.00014
	(!A * !C * !D * !Y)	0.00001	0.00001	0.00001
	(!A * !C * !D * !Y)	-0.00005	-0.00005	-0.00005
	(!A * !C * !D * !Y)	-0.00006	-0.00006	-0.00006

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X1H7H	(A * B * !D * !Y)	-0.00013	-0.00013	-0.00012
	(A * B * !D * !Y)	-0.00001	-0.00001	-0.00001
	(A * B * !D * !Y)	0.00001	0.00001	0.00001
	(A * B * !D * !Y)	0.00019	0.00019	0.00020
	(!B * D * !Y)	-0.00013	-0.00013	-0.00012
	(!B * D * !Y)	-0.00001	-0.00001	-0.00001
	(!B * D * !Y)	0.00003	0.00004	0.00004
	(!B * D * !Y)	0.00006	0.00007	0.00007
	(!B * !D * !Y)	-0.00013	-0.00013	-0.00012
	(!B * !D * !Y)	-0.00001	-0.00001	-0.00001
	(!B * !D * !Y)	0.00005	0.00005	0.00005
	(!B * !D * !Y)	0.00006	0.00006	0.00007
	(!A * B * D * !Y)	-0.00013	-0.00013	-0.00012
	(!A * B * D * !Y)	-0.00001	-0.00001	-0.00001
	(!A * B * D * !Y)	0.00004	0.00004	0.00004
	(!A * B * D * !Y)	0.00006	0.00007	0.00007
	(!A * B * !D * !Y)	-0.00013	-0.00013	-0.00012
	(!A * B * !D * !Y)	-0.00001	-0.00001	-0.00001
	(!A * B * !D * !Y)	0.00005	0.00005	0.00005
	(!A * B * !D * !Y)	0.00006	0.00006	0.00007

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X1H7H	(A * B * !D * !Y)	0.00013	0.00013	0.00014
	(A * B * !D * !Y)	0.00001	0.00001	0.00001
	(A * B * !D * !Y)	-0.00001	-0.00001	-0.00001
	(A * B * !D * !Y)	-0.00019	-0.00018	-0.00016
	(!B * D * !Y)	0.00013	0.00013	0.00013
	(!B * D * !Y)	0.00001	0.00001	0.00001
	(!B * D * !Y)	-0.00004	-0.00004	-0.00003
	(!B * D * !Y)	-0.00007	-0.00006	-0.00006
	(!B * !D * !Y)	0.00013	0.00013	0.00013
	(!B * !D * !Y)	0.00001	0.00001	0.00001
	(!B * !D * !Y)	-0.00005	-0.00005	-0.00005
	(!B * !D * !Y)	-0.00007	-0.00006	-0.00006
	(!A * B * D * !Y)	0.00012	0.00013	0.00013
	(!A * B * D * !Y)	0.00001	0.00001	0.00001
	(!A * B * D * !Y)	-0.00004	-0.00004	-0.00004
	(!A * B * D * !Y)	-0.00006	-0.00006	-0.00006
	(!A * B * !D * !Y)	0.00013	0.00013	0.00013
	(!A * B * !D * !Y)	0.00001	0.00001	0.00001
	(!A * B * !D * !Y)	-0.00005	-0.00005	-0.00005
	(!A * B * !D * !Y)	-0.00006	-0.00006	-0.00006

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X1H7H	(!C * !Y)	-0.00024	-0.00024	-0.00024
	(!C * !Y)	-0.00001	-0.00001	-0.00001
	(!C * !Y)	0.00003	0.00003	0.00003
	(!C * !Y)	0.00007	0.00007	0.00007
	(!B * C * !Y)	-0.00024	-0.00024	-0.00024
	(!B * C * !Y)	-0.00001	-0.00001	-0.00001
	(!B * C * !Y)	0.00002	0.00003	0.00004
	(!B * C * !Y)	0.00007	0.00007	0.00008
	(!A * B * C * !Y)	-0.00024	-0.00024	-0.00024
	(!A * B * C * !Y)	-0.00001	-0.00001	-0.00001
	(!A * B * C * !Y)	0.00002	0.00003	0.00003
	(!A * B * C * !Y)	0.00006	0.00007	0.00007

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

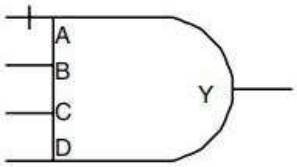
Cell Name	When	Power(pJ)		
		min	avg	max
AND4X1H7H	(!C * !Y)	0.00024	0.00024	0.00024
	(!C * !Y)	0.00001	0.00001	0.00001
	(!C * !Y)	-0.00003	-0.00003	-0.00002
	(!C * !Y)	-0.00007	-0.00007	-0.00007
	(!B * C * !Y)	0.00024	0.00024	0.00024
	(!B * C * !Y)	0.00001	0.00001	0.00001
	(!B * C * !Y)	-0.00002	-0.00002	-0.00002
	(!B * C * !Y)	-0.00008	-0.00007	-0.00007
	(!A * B * C * !Y)	0.00024	0.00024	0.00024
	(!A * B * C * !Y)	0.00001	0.00001	0.00001
	(!A * B * C * !Y)	-0.00002	-0.00002	-0.00002
	(!A * B * C * !Y)	-0.00007	-0.00007	-0.00006

AND4X1P4H7H

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

Cell Description

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



Truth Table

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

Footprint

Cell Name	Area
AND4X1P4H7H	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A	B	C	D	Y
AND4X1P4H7H	0.00085	0.00080	0.00077	0.00091	0.04682

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AND4X1P4H7H	0.00000	0.01412	0.04809

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND4X1P4H7H	A->Y (RR)	0.13789	0.31458	0.74087
	B->Y (RR)	0.13479	0.31502	0.75181
	C->Y (RR)	0.12769	0.31122	0.75572
	D->Y (RR)	0.12281	0.30164	0.73514

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND4X1P4H7H	A->Y (FF)	0.08484	0.24025	0.61525
	B->Y (FF)	0.08119	0.23477	0.60499
	C->Y (FF)	0.07612	0.22779	0.59274
	D->Y (FF)	0.07327	0.22240	0.58121

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND4X1P4H7H	A	0.00052	0.00059	0.00065
	A	0.00005	0.00005	0.00005
	A	-0.00010	-0.00010	-0.00010
	A	0.00192	0.00199	0.00205
	B	0.00053	0.00059	0.00066
	B	0.00005	0.00005	0.00005
	B	-0.00007	-0.00007	-0.00006
	B	0.00171	0.00177	0.00183
	C	0.00054	0.00059	0.00065
	C	0.00005	0.00005	0.00005
	C	-0.00003	-0.00003	-0.00003
	C	0.00154	0.00159	0.00165
	D	0.00051	0.00057	0.00065
	D	0.00005	0.00005	0.00005
	D	0.00001	0.00001	0.00001
	D	0.00141	0.00147	0.00154

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND4X1P4H7H	A	0.00187	0.00193	0.00199
	A	-0.00005	-0.00005	-0.00005
	A	0.00010	0.00010	0.00010
	A	0.00056	0.00062	0.00068
	B	0.00173	0.00180	0.00186
	B	-0.00005	-0.00005	-0.00005
	B	0.00006	0.00007	0.00007
	B	0.00062	0.00068	0.00074
	C	0.00159	0.00166	0.00171
	C	-0.00005	-0.00005	-0.00005
	C	0.00003	0.00003	0.00003
	C	0.00062	0.00068	0.00074
	D	0.00148	0.00156	0.00163
	D	-0.00005	-0.00005	-0.00005
	D	-0.00001	-0.00001	-0.00001
	D	0.00059	0.00067	0.00074

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X1P4H7H	(B * C * !D * !Y)	-0.00016	-0.00016	-0.00016
	(B * C * !D * !Y)	-0.00001	-0.00001	-0.00001
	(B * C * !D * !Y)	0.00001	0.00002	0.00002
	(B * C * !D * !Y)	0.00023	0.00023	0.00024
	(B * !C * D * !Y)	-0.00016	-0.00016	-0.00016
	(B * !C * D * !Y)	-0.00001	-0.00001	-0.00001
	(B * !C * D * !Y)	0.00001	0.00001	0.00001
	(B * !C * D * !Y)	0.00023	0.00024	0.00024
	(B * !C * !D * !Y)	-0.00016	-0.00015	-0.00012
	(B * !C * !D * !Y)	-0.00001	-0.00001	-0.00001
	(B * !C * !D * !Y)	0.00001	0.00002	0.00002
	(B * !C * !D * !Y)	0.00023	0.00023	0.00024
	(!B * C * D * !Y)	-0.00016	-0.00016	-0.00016
	(!B * C * D * !Y)	-0.00001	-0.00001	-0.00001
	(!B * C * D * !Y)	0.00001	0.00001	0.00001
	(!B * C * D * !Y)	0.00024	0.00024	0.00025
	(!B * !D * !Y)	-0.00016	-0.00016	-0.00016
	(!B * !D * !Y)	-0.00001	-0.00001	-0.00001
	(!B * !D * !Y)	0.00001	0.00001	0.00002
	(!B * !D * !Y)	0.00024	0.00024	0.00024
	(!B * !C * D * !Y)	-0.00016	-0.00016	-0.00015
	(!B * !C * D * !Y)	-0.00001	-0.00001	-0.00001
	(!B * !C * D * !Y)	0.00001	0.00001	0.00002
	(!B * !C * D * !Y)	0.00024	0.00024	0.00024

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X1P4H7H	(B * C * !D * !Y)	0.00016	0.00016	0.00016
	(B * C * !D * !Y)	0.00001	0.00001	0.00001
	(B * C * !D * !Y)	-0.00002	-0.00002	-0.00001
	(B * C * !D * !Y)	-0.00023	-0.00022	-0.00020
	(B * !C * D * !Y)	0.00016	0.00016	0.00016
	(B * !C * D * !Y)	0.00001	0.00001	0.00001
	(B * !C * D * !Y)	-0.00001	-0.00001	-0.00001
	(B * !C * D * !Y)	-0.00024	-0.00023	-0.00021
	(B * !C * !D * !Y)	0.00016	0.00016	0.00016
	(B * !C * !D * !Y)	0.00001	0.00001	0.00001
	(B * !C * !D * !Y)	-0.00002	-0.00002	-0.00001
	(B * !C * !D * !Y)	-0.00024	-0.00023	-0.00021
	(!B * C * D * !Y)	0.00016	0.00016	0.00016
	(!B * C * D * !Y)	0.00001	0.00001	0.00001
	(!B * C * D * !Y)	-0.00001	-0.00001	-0.00001
	(!B * C * D * !Y)	-0.00024	-0.00023	-0.00022
	(!B * !D * !Y)	0.00016	0.00016	0.00016
	(!B * !D * !Y)	0.00001	0.00001	0.00001
	(!B * !D * !Y)	-0.00002	-0.00001	-0.00001
	(!B * !D * !Y)	-0.00024	-0.00023	-0.00022
	(!B * !C * D * !Y)	0.00016	0.00016	0.00016
	(!B * !C * D * !Y)	0.00001	0.00001	0.00001
	(!B * !C * D * !Y)	-0.00002	-0.00001	-0.00001
	(!B * !C * D * !Y)	-0.00024	-0.00023	-0.00022

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X1P4H7H	(A * C * !D * !Y)	-0.00015	-0.00014	-0.00014
	(A * C * !D * !Y)	-0.00001	-0.00001	-0.00001
	(A * C * !D * !Y)	0.00001	0.00001	0.00001
	(A * C * !D * !Y)	0.00018	0.00018	0.00018
	(A * !C * D * !Y)	-0.00014	-0.00014	-0.00014
	(A * !C * D * !Y)	-0.00001	-0.00001	-0.00001
	(A * !C * D * !Y)	0.00001	0.00002	0.00002
	(A * !C * D * !Y)	0.00018	0.00019	0.00019
	(A * !C * !D * !Y)	-0.00014	-0.00015	-0.00014
	(A * !C * !D * !Y)	-0.00001	-0.00001	-0.00001
	(A * !C * !D * !Y)	0.00001	0.00001	0.00002
	(A * !C * !D * !Y)	0.00019	0.00019	0.00019
	(!A * C * D * !Y)	-0.00014	-0.00014	-0.00014
	(!A * C * D * !Y)	-0.00001	-0.00001	-0.00001
	(!A * C * D * !Y)	0.00004	0.00004	0.00004
	(!A * C * D * !Y)	0.00006	0.00006	0.00007
	(!A * C * !D * !Y)	-0.00015	-0.00015	-0.00014
	(!A * C * !D * !Y)	-0.00001	-0.00001	-0.00001
	(!A * C * !D * !Y)	0.00005	0.00005	0.00005
	(!A * C * !D * !Y)	0.00006	0.00006	0.00006
	(!A * !C * D * !Y)	-0.00015	-0.00015	-0.00014
	(!A * !C * D * !Y)	-0.00001	-0.00001	-0.00001
	(!A * !C * D * !Y)	0.00005	0.00005	0.00005
	(!A * !C * D * !Y)	0.00006	0.00006	0.00006
	(!A * !C * !D * !Y)	-0.00015	-0.00015	-0.00014
	(!A * !C * !D * !Y)	-0.00001	-0.00001	-0.00001
	(!A * !C * !D * !Y)	0.00005	0.00005	0.00005
	(!A * !C * !D * !Y)	0.00006	0.00006	0.00006

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X1P4H7H	(A * C * !D * !Y)	0.00014	0.00015	0.00015
	(A * C * !D * !Y)	0.00001	0.00001	0.00001
	(A * C * !D * !Y)	-0.00001	-0.00001	-0.00001
	(A * C * !D * !Y)	-0.00018	-0.00017	-0.00015
	(A * !C * D * !Y)	0.00014	0.00014	0.00015
	(A * !C * D * !Y)	0.00001	0.00001	0.00001
	(A * !C * D * !Y)	-0.00002	-0.00002	-0.00001
	(A * !C * D * !Y)	-0.00019	-0.00018	-0.00016
	(A * !C * !D * !Y)	0.00014	0.00015	0.00015
	(A * !C * !D * !Y)	0.00001	0.00001	0.00001
	(A * !C * !D * !Y)	-0.00002	-0.00001	-0.00001
	(A * !C * !D * !Y)	-0.00019	-0.00018	-0.00017
	(!A * C * D * !Y)	0.00014	0.00015	0.00015
	(!A * C * D * !Y)	0.00001	0.00001	0.00001
	(!A * C * D * !Y)	-0.00004	-0.00004	-0.00004
	(!A * C * D * !Y)	-0.00006	-0.00006	-0.00006
	(!A * C * !D * !Y)	0.00014	0.00015	0.00015
	(!A * C * !D * !Y)	0.00001	0.00001	0.00001
	(!A * C * !D * !Y)	-0.00005	-0.00005	-0.00005
	(!A * C * !D * !Y)	-0.00006	-0.00006	-0.00006
	(!A * !C * D * !Y)	0.00014	0.00015	0.00015
	(!A * !C * D * !Y)	0.00001	0.00001	0.00001
	(!A * !C * D * !Y)	-0.00005	-0.00005	-0.00005
	(!A * !C * D * !Y)	-0.00006	-0.00006	-0.00006
	(!A * !C * !D * !Y)	0.00014	0.00015	0.00015
	(!A * !C * !D * !Y)	0.00001	0.00001	0.00001
	(!A * !C * !D * !Y)	-0.00005	-0.00005	-0.00005
	(!A * !C * !D * !Y)	-0.00006	-0.00006	-0.00006

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X1P4H7H	(A * B * !D * !Y)	-0.00013	-0.00013	-0.00012
	(A * B * !D * !Y)	-0.00001	-0.00001	-0.00001
	(A * B * !D * !Y)	0.00001	0.00001	0.00001
	(A * B * !D * !Y)	0.00019	0.00020	0.00020
	(!B * D * !Y)	-0.00013	-0.00013	-0.00012
	(!B * D * !Y)	-0.00001	-0.00001	-0.00001
	(!B * D * !Y)	0.00004	0.00004	0.00004
	(!B * D * !Y)	0.00006	0.00007	0.00007
	(!B * !D * !Y)	-0.00013	-0.00013	-0.00012
	(!B * !D * !Y)	-0.00001	-0.00001	-0.00001
	(!B * !D * !Y)	0.00005	0.00005	0.00005
	(!B * !D * !Y)	0.00006	0.00006	0.00007
	(!A * B * D * !Y)	-0.00013	-0.00013	-0.00012
	(!A * B * D * !Y)	-0.00001	-0.00001	-0.00001
	(!A * B * D * !Y)	0.00004	0.00004	0.00005
	(!A * B * D * !Y)	0.00005	0.00006	0.00007
	(!A * B * !D * !Y)	-0.00013	-0.00013	-0.00012
	(!A * B * !D * !Y)	-0.00001	-0.00001	-0.00001
	(!A * B * !D * !Y)	0.00005	0.00005	0.00005
	(!A * B * !D * !Y)	0.00006	0.00006	0.00007

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X1P4H7H	(A * B * !D * !Y)	0.00013	0.00013	0.00014
	(A * B * !D * !Y)	0.00001	0.00001	0.00001
	(A * B * !D * !Y)	-0.00001	-0.00001	-0.00001
	(A * B * !D * !Y)	-0.00020	-0.00018	-0.00016
	(!B * D * !Y)	0.00013	0.00013	0.00013
	(!B * D * !Y)	0.00001	0.00001	0.00001
	(!B * D * !Y)	-0.00004	-0.00004	-0.00004
	(!B * D * !Y)	-0.00007	-0.00006	-0.00006
	(!B * !D * !Y)	0.00013	0.00013	0.00013
	(!B * !D * !Y)	0.00001	0.00001	0.00001
	(!B * !D * !Y)	-0.00005	-0.00005	-0.00005
	(!B * !D * !Y)	-0.00007	-0.00006	-0.00006
	(!A * B * D * !Y)	0.00012	0.00013	0.00013
	(!A * B * D * !Y)	0.00001	0.00001	0.00001
	(!A * B * D * !Y)	-0.00004	-0.00004	-0.00004
	(!A * B * D * !Y)	-0.00007	-0.00006	-0.00005
	(!A * B * !D * !Y)	0.00013	0.00013	0.00013
	(!A * B * !D * !Y)	0.00001	0.00001	0.00001
	(!A * B * !D * !Y)	-0.00005	-0.00005	-0.00005
	(!A * B * !D * !Y)	-0.00006	-0.00006	-0.00006

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X1P4H7H	(!C * !Y)	-0.00024	-0.00024	-0.00024
	(!C * !Y)	-0.00001	-0.00001	-0.00001
	(!C * !Y)	0.00003	0.00003	0.00003
	(!C * !Y)	0.00007	0.00007	0.00007
	(!B * C * !Y)	-0.00024	-0.00024	-0.00024
	(!B * C * !Y)	-0.00001	-0.00001	-0.00001
	(!B * C * !Y)	0.00003	0.00003	0.00003
	(!B * C * !Y)	0.00007	0.00007	0.00007
	(!A * B * C * !Y)	-0.00024	-0.00024	-0.00024
	(!A * B * C * !Y)	-0.00001	-0.00001	-0.00001
	(!A * B * C * !Y)	0.00001	0.00002	0.00003
	(!A * B * C * !Y)	0.00007	0.00007	0.00008

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

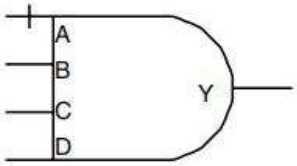
Cell Name	When	Power(pJ)		
		min	avg	max
AND4X1P4H7H	(!C * !Y)	0.00024	0.00024	0.00024
	(!C * !Y)	0.00001	0.00001	0.00001
	(!C * !Y)	-0.00003	-0.00003	-0.00003
	(!C * !Y)	-0.00007	-0.00007	-0.00007
	(!B * C * !Y)	0.00024	0.00024	0.00024
	(!B * C * !Y)	0.00001	0.00001	0.00001
	(!B * C * !Y)	-0.00003	-0.00003	-0.00002
	(!B * C * !Y)	-0.00007	-0.00007	-0.00007
	(!A * B * C * !Y)	0.00024	0.00024	0.00024
	(!A * B * C * !Y)	0.00001	0.00001	0.00001
	(!A * B * C * !Y)	-0.00003	-0.00002	-0.00001
	(!A * B * C * !Y)	-0.00007	-0.00007	-0.00007

AND4X2H7H

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

Cell Description

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



Truth Table

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

Footprint

Cell Name	Area
AND4X2H7H	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A	B	C	D	Y
AND4X2H7H	0.00084	0.00080	0.00077	0.00092	0.06021

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AND4X2H7H	0.00000	0.02213	0.03965

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND4X2H7H	A->Y (RR)	0.15326	0.33510	0.76921
	B->Y (RR)	0.14990	0.33552	0.78136
	C->Y (RR)	0.14290	0.33218	0.78737
	D->Y (RR)	0.13786	0.32271	0.76759

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND4X2H7H	A->Y (FF)	0.09562	0.25202	0.62840
	B->Y (FF)	0.09164	0.24642	0.61850
	C->Y (FF)	0.08641	0.23969	0.60669
	D->Y (FF)	0.08336	0.23454	0.59645

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND4X2H7H	A	0.00081	0.00089	0.00098
	A	0.00004	0.00005	0.00005
	A	-0.00010	-0.00010	-0.00010
	A	0.00222	0.00230	0.00239
	B	0.00082	0.00089	0.00098
	B	0.00004	0.00005	0.00005
	B	-0.00006	-0.00006	-0.00006
	B	0.00201	0.00208	0.00217
	C	0.00083	0.00089	0.00098
	C	0.00004	0.00005	0.00005
	C	-0.00002	-0.00002	-0.00001
	C	0.00183	0.00190	0.00199
	D	0.00080	0.00087	0.00098
	D	0.00004	0.00005	0.00005
	D	0.00002	0.00002	0.00002
	D	0.00170	0.00178	0.00188

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND4X2H7H	A	0.00224	0.00232	0.00241
	A	-0.00005	-0.00005	-0.00004
	A	0.00010	0.00010	0.00010
	A	0.00093	0.00102	0.00110
	B	0.00210	0.00219	0.00228
	B	-0.00005	-0.00005	-0.00004
	B	0.00006	0.00006	0.00006
	B	0.00098	0.00106	0.00115
	C	0.00196	0.00204	0.00212
	C	-0.00005	-0.00005	-0.00004
	C	0.00001	0.00002	0.00002
	C	0.00098	0.00107	0.00115
	D	0.00185	0.00195	0.00204
	D	-0.00005	-0.00005	-0.00004
	D	-0.00002	-0.00002	-0.00001
	D	0.00095	0.00105	0.00114

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X2H7H	(B * C * !D * !Y)	-0.00016	-0.00016	-0.00016
	(B * C * !D * !Y)	-0.00001	-0.00001	-0.00001
	(B * C * !D * !Y)	0.00000	0.00001	0.00002
	(B * C * !D * !Y)	0.00022	0.00022	0.00023
	(B * !C * D * !Y)	-0.00016	-0.00016	-0.00016
	(B * !C * D * !Y)	-0.00001	-0.00001	-0.00001
	(B * !C * D * !Y)	0.00000	0.00001	0.00002
	(B * !C * D * !Y)	0.00022	0.00022	0.00023
	(B * !C * !D * !Y)	-0.00016	-0.00015	-0.00012
	(B * !C * !D * !Y)	-0.00001	-0.00001	-0.00001
	(B * !C * !D * !Y)	0.00001	0.00001	0.00002
	(B * !C * !D * !Y)	0.00022	0.00022	0.00023
	(!B * C * D * !Y)	-0.00016	-0.00016	-0.00016
	(!B * C * D * !Y)	-0.00001	-0.00001	-0.00001
	(!B * C * D * !Y)	0.00001	0.00002	0.00002
	(!B * C * D * !Y)	0.00023	0.00023	0.00023
	(!B * !D * !Y)	-0.00016	-0.00016	-0.00016
	(!B * !D * !Y)	-0.00001	-0.00001	-0.00001
	(!B * !D * !Y)	0.00001	0.00001	0.00002
	(!B * !D * !Y)	0.00022	0.00023	0.00023
	(!B * !C * D * !Y)	-0.00016	-0.00016	-0.00016
	(!B * !C * D * !Y)	-0.00001	-0.00001	-0.00001
	(!B * !C * D * !Y)	0.00001	0.00002	0.00003
	(!B * !C * D * !Y)	0.00022	0.00023	0.00023

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X2H7H	(B * C * !D * !Y)	0.00016	0.00016	0.00016
	(B * C * !D * !Y)	0.00001	0.00001	0.00001
	(B * C * !D * !Y)	-0.00002	-0.00001	-0.00000
	(B * C * !D * !Y)	-0.00022	-0.00021	-0.00020
	(B * !C * D * !Y)	0.00016	0.00016	0.00016
	(B * !C * D * !Y)	0.00001	0.00001	0.00001
	(B * !C * D * !Y)	-0.00002	-0.00001	-0.00000
	(B * !C * D * !Y)	-0.00022	-0.00021	-0.00020
	(B * !C * !D * !Y)	0.00016	0.00016	0.00016
	(B * !C * !D * !Y)	0.00001	0.00001	0.00001
	(B * !C * !D * !Y)	-0.00002	-0.00001	-0.00001
	(B * !C * !D * !Y)	-0.00022	-0.00021	-0.00020
	(!B * C * D * !Y)	0.00016	0.00016	0.00016
	(!B * C * D * !Y)	0.00001	0.00001	0.00001
	(!B * C * D * !Y)	-0.00002	-0.00002	-0.00001
	(!B * C * D * !Y)	-0.00023	-0.00022	-0.00020
	(!B * !D * !Y)	0.00016	0.00016	0.00016
	(!B * !D * !Y)	0.00001	0.00001	0.00001
	(!B * !D * !Y)	-0.00002	-0.00001	-0.00001
	(!B * !D * !Y)	-0.00023	-0.00022	-0.00021
	(!B * !C * D * !Y)	0.00016	0.00016	0.00016
	(!B * !C * D * !Y)	0.00001	0.00001	0.00001
	(!B * !C * D * !Y)	-0.00002	-0.00002	-0.00001
	(!B * !C * D * !Y)	-0.00023	-0.00022	-0.00021

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X2H7H	(A * C * !D * !Y)	-0.00014	-0.00014	-0.00014
	(A * C * !D * !Y)	-0.00001	-0.00001	-0.00001
	(A * C * !D * !Y)	0.00001	0.00002	0.00003
	(A * C * !D * !Y)	0.00018	0.00018	0.00019
	(A * !C * D * !Y)	-0.00014	-0.00014	-0.00014
	(A * !C * D * !Y)	-0.00001	-0.00001	-0.00001
	(A * !C * D * !Y)	0.00001	0.00001	0.00002
	(A * !C * D * !Y)	0.00018	0.00019	0.00020
	(A * !C * !D * !Y)	-0.00014	-0.00014	-0.00014
	(A * !C * !D * !Y)	-0.00001	-0.00001	-0.00001
	(A * !C * !D * !Y)	0.00001	0.00002	0.00002
	(A * !C * !D * !Y)	0.00018	0.00019	0.00019
	(!A * C * D * !Y)	-0.00014	-0.00014	-0.00014
	(!A * C * D * !Y)	-0.00001	-0.00001	-0.00001
	(!A * C * D * !Y)	0.00004	0.00005	0.00006
	(!A * C * D * !Y)	0.00006	0.00006	0.00007
	(!A * C * !D * !Y)	-0.00014	-0.00014	-0.00014
	(!A * C * !D * !Y)	-0.00001	-0.00001	-0.00001
	(!A * C * !D * !Y)	0.00005	0.00005	0.00006
	(!A * C * !D * !Y)	0.00006	0.00006	0.00006
	(!A * !C * D * !Y)	-0.00014	-0.00014	-0.00014
	(!A * !C * D * !Y)	-0.00001	-0.00001	-0.00001
	(!A * !C * D * !Y)	0.00004	0.00005	0.00005
	(!A * !C * D * !Y)	0.00006	0.00007	0.00007
	(!A * !C * !D * !Y)	-0.00014	-0.00014	-0.00014
	(!A * !C * !D * !Y)	-0.00001	-0.00001	-0.00001
	(!A * !C * !D * !Y)	0.00005	0.00005	0.00005
	(!A * !C * !D * !Y)	0.00006	0.00006	0.00007

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X2H7H	(A * C * !D * !Y)	0.00014	0.00014	0.00014
	(A * C * !D * !Y)	0.00001	0.00001	0.00001
	(A * C * !D * !Y)	-0.00002	-0.00002	-0.00001
	(A * C * !D * !Y)	-0.00019	-0.00017	-0.00015
	(A * !C * D * !Y)	0.00014	0.00014	0.00014
	(A * !C * D * !Y)	0.00001	0.00001	0.00001
	(A * !C * D * !Y)	-0.00001	-0.00001	-0.00001
	(A * !C * D * !Y)	-0.00019	-0.00018	-0.00017
	(A * !C * !D * !Y)	0.00014	0.00014	0.00014
	(A * !C * !D * !Y)	0.00001	0.00001	0.00001
	(A * !C * !D * !Y)	-0.00002	-0.00002	-0.00001
	(A * !C * !D * !Y)	-0.00019	-0.00018	-0.00016
	(!A * C * D * !Y)	0.00014	0.00014	0.00014
	(!A * C * D * !Y)	0.00001	0.00001	0.00001
	(!A * C * D * !Y)	-0.00005	-0.00005	-0.00004
	(!A * C * D * !Y)	-0.00007	-0.00006	-0.00006
	(!A * C * !D * !Y)	0.00014	0.00014	0.00014
	(!A * C * !D * !Y)	0.00001	0.00001	0.00001
	(!A * C * !D * !Y)	-0.00005	-0.00005	-0.00005
	(!A * C * !D * !Y)	-0.00006	-0.00006	-0.00006
	(!A * !C * D * !Y)	0.00014	0.00014	0.00014
	(!A * !C * D * !Y)	0.00001	0.00001	0.00001
	(!A * !C * D * !Y)	-0.00005	-0.00005	-0.00004
	(!A * !C * D * !Y)	-0.00006	-0.00006	-0.00006
	(!A * !C * !D * !Y)	0.00014	0.00014	0.00014
	(!A * !C * !D * !Y)	0.00001	0.00001	0.00001
	(!A * !C * !D * !Y)	-0.00005	-0.00005	-0.00005
	(!A * !C * !D * !Y)	-0.00007	-0.00006	-0.00006

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X2H7H	(A * B * !D * !Y)	-0.00013	-0.00013	-0.00012
	(A * B * !D * !Y)	-0.00001	-0.00001	-0.00001
	(A * B * !D * !Y)	0.00001	0.00001	0.00002
	(A * B * !D * !Y)	0.00019	0.00020	0.00020
	(!B * D * !Y)	-0.00013	-0.00013	-0.00012
	(!B * D * !Y)	-0.00001	-0.00001	-0.00001
	(!B * D * !Y)	0.00003	0.00004	0.00005
	(!B * D * !Y)	0.00006	0.00007	0.00007
	(!B * !D * !Y)	-0.00013	-0.00013	-0.00012
	(!B * !D * !Y)	-0.00001	-0.00001	-0.00001
	(!B * !D * !Y)	0.00005	0.00005	0.00006
	(!B * !D * !Y)	0.00006	0.00006	0.00007
	(!A * B * D * !Y)	-0.00013	-0.00013	-0.00012
	(!A * B * D * !Y)	-0.00001	-0.00001	-0.00001
	(!A * B * D * !Y)	0.00003	0.00004	0.00005
	(!A * B * D * !Y)	0.00006	0.00007	0.00007
	(!A * B * !D * !Y)	-0.00013	-0.00013	-0.00012
	(!A * B * !D * !Y)	-0.00001	-0.00001	-0.00001
	(!A * B * !D * !Y)	0.00005	0.00005	0.00006
	(!A * B * !D * !Y)	0.00006	0.00006	0.00007

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X2H7H	(A * B * !D * !Y)	0.00013	0.00013	0.00014
	(A * B * !D * !Y)	0.00001	0.00001	0.00001
	(A * B * !D * !Y)	-0.00002	-0.00001	-0.00001
	(A * B * !D * !Y)	-0.00020	-0.00019	-0.00018
	(!B * D * !Y)	0.00013	0.00013	0.00013
	(!B * D * !Y)	0.00001	0.00001	0.00001
	(!B * D * !Y)	-0.00004	-0.00004	-0.00003
	(!B * D * !Y)	-0.00007	-0.00006	-0.00006
	(!B * !D * !Y)	0.00013	0.00013	0.00013
	(!B * !D * !Y)	0.00001	0.00001	0.00001
	(!B * !D * !Y)	-0.00005	-0.00005	-0.00005
	(!B * !D * !Y)	-0.00007	-0.00006	-0.00006
	(!A * B * D * !Y)	0.00013	0.00013	0.00013
	(!A * B * D * !Y)	0.00001	0.00001	0.00001
	(!A * B * D * !Y)	-0.00004	-0.00004	-0.00003
	(!A * B * D * !Y)	-0.00007	-0.00006	-0.00006
	(!A * B * !D * !Y)	0.00013	0.00013	0.00013
	(!A * B * !D * !Y)	0.00001	0.00001	0.00001
	(!A * B * !D * !Y)	-0.00005	-0.00005	-0.00005
	(!A * B * !D * !Y)	-0.00007	-0.00006	-0.00006

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X2H7H	(!C * !Y)	-0.00024	-0.00024	-0.00024
	(!C * !Y)	-0.00001	-0.00001	-0.00001
	(!C * !Y)	0.00003	0.00003	0.00004
	(!C * !Y)	0.00007	0.00008	0.00008
	(!B * C * !Y)	-0.00024	-0.00024	-0.00024
	(!B * C * !Y)	-0.00001	-0.00001	-0.00001
	(!B * C * !Y)	0.00003	0.00003	0.00003
	(!B * C * !Y)	0.00007	0.00008	0.00008
	(!A * B * C * !Y)	-0.00024	-0.00024	-0.00024
	(!A * B * C * !Y)	-0.00001	-0.00001	-0.00001
	(!A * B * C * !Y)	0.00003	0.00003	0.00004
	(!A * B * C * !Y)	0.00007	0.00008	0.00008

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

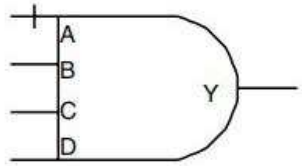
Cell Name	When	Power(pJ)		
		min	avg	max
AND4X2H7H	(!C * !Y)	0.00024	0.00024	0.00024
	(!C * !Y)	0.00001	0.00001	0.00001
	(!C * !Y)	-0.00003	-0.00003	-0.00003
	(!C * !Y)	-0.00008	-0.00008	-0.00007
	(!B * C * !Y)	0.00024	0.00024	0.00024
	(!B * C * !Y)	0.00001	0.00001	0.00001
	(!B * C * !Y)	-0.00003	-0.00003	-0.00002
	(!B * C * !Y)	-0.00008	-0.00008	-0.00007
	(!A * B * C * !Y)	0.00024	0.00024	0.00024
	(!A * B * C * !Y)	0.00001	0.00001	0.00001
	(!A * B * C * !Y)	-0.00003	-0.00003	-0.00003
	(!A * B * C * !Y)	-0.00008	-0.00008	-0.00007

AND4X3H7H

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

Cell Description

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



Truth Table

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

Footprint

Cell Name	Area
AND4X3H7H	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A	B	C	D	Y
AND4X3H7H	0.00088	0.00082	0.00079	0.00094	0.08448

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AND4X3H7H	0.00000	0.02175	0.05296

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND4X3H7H	A->Y (RR)	0.17161	0.35807	0.79404
	B->Y (RR)	0.16818	0.35920	0.80942
	C->Y (RR)	0.16115	0.35694	0.81995
	D->Y (RR)	0.15666	0.34905	0.80569

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND4X3H7H	A->Y (FF)	0.08400	0.24124	0.61678
	B->Y (FF)	0.08098	0.23689	0.60884
	C->Y (FF)	0.07709	0.23164	0.59974
	D->Y (FF)	0.07507	0.22779	0.59152

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND4X3H7H	A	0.00099	0.00107	0.00118
	A	0.00004	0.00005	0.00005
	A	-0.00007	-0.00006	-0.00006
	A	0.00238	0.00247	0.00258
	B	0.00100	0.00107	0.00118
	B	0.00004	0.00005	0.00005
	B	-0.00003	-0.00003	-0.00003
	B	0.00217	0.00225	0.00236
	C	0.00100	0.00108	0.00118
	C	0.00004	0.00005	0.00005
	C	0.00000	0.00000	0.00000
	C	0.00201	0.00209	0.00219
	D	0.00098	0.00106	0.00118
	D	0.00004	0.00004	0.00005
	D	0.00003	0.00004	0.00004
	D	0.00188	0.00196	0.00208

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND4X3H7H	A	0.00241	0.00251	0.00261
	A	-0.00005	-0.00005	-0.00004
	A	0.00006	0.00006	0.00007
	A	0.00111	0.00120	0.00130
	B	0.00229	0.00239	0.00249
	B	-0.00005	-0.00004	-0.00003
	B	0.00003	0.00003	0.00003
	B	0.00117	0.00127	0.00137
	C	0.00215	0.00225	0.00234
	C	-0.00005	-0.00005	-0.00004
	C	0.00000	0.00000	0.00000
	C	0.00117	0.00127	0.00136
	D	0.00205	0.00217	0.00227
	D	-0.00005	-0.00004	-0.00004
	D	-0.00004	-0.00004	-0.00003
	D	0.00115	0.00126	0.00136

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X3H7H	(B * C * !D * !Y)	-0.00018	-0.00018	-0.00018
	(B * C * !D * !Y)	-0.00001	-0.00001	-0.00001
	(B * C * !D * !Y)	0.00001	0.00002	0.00003
	(B * C * !D * !Y)	0.00022	0.00022	0.00023
	(B * !C * D * !Y)	-0.00018	-0.00018	-0.00018
	(B * !C * D * !Y)	-0.00001	-0.00001	-0.00001
	(B * !C * D * !Y)	0.00001	0.00001	0.00001
	(B * !C * D * !Y)	0.00023	0.00023	0.00023
	(B * !C * !D * !Y)	-0.00018	-0.00018	-0.00018
	(B * !C * !D * !Y)	-0.00001	-0.00001	-0.00001
	(B * !C * !D * !Y)	0.00001	0.00001	0.00002
	(B * !C * !D * !Y)	0.00023	0.00023	0.00023
	(!B * C * D * !Y)	-0.00018	-0.00018	-0.00018
	(!B * C * D * !Y)	-0.00001	-0.00001	-0.00001
	(!B * C * D * !Y)	0.00001	0.00001	0.00002
	(!B * C * D * !Y)	0.00022	0.00023	0.00024
	(!B * !D * !Y)	-0.00018	-0.00018	-0.00018
	(!B * !D * !Y)	-0.00001	-0.00001	-0.00001
	(!B * !D * !Y)	0.00001	0.00001	0.00001
	(!B * !D * !Y)	0.00023	0.00023	0.00024
	(!B * !C * D * !Y)	-0.00018	-0.00018	-0.00018
	(!B * !C * D * !Y)	-0.00001	-0.00001	-0.00001
	(!B * !C * D * !Y)	0.00001	0.00001	0.00001
	(!B * !C * D * !Y)	0.00023	0.00023	0.00023

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X3H7H	(B * C * !D * !Y)	0.00018	0.00018	0.00018
	(B * C * !D * !Y)	0.00001	0.00001	0.00001
	(B * C * !D * !Y)	-0.00002	-0.00001	-0.00001
	(B * C * !D * !Y)	-0.00023	-0.00022	-0.00020
	(B * !C * D * !Y)	0.00018	0.00018	0.00018
	(B * !C * D * !Y)	0.00001	0.00001	0.00001
	(B * !C * D * !Y)	-0.00001	-0.00001	-0.00001
	(B * !C * D * !Y)	-0.00023	-0.00022	-0.00020
	(B * !C * !D * !Y)	0.00018	0.00018	0.00018
	(B * !C * !D * !Y)	0.00001	0.00001	0.00001
	(B * !C * !D * !Y)	-0.00002	-0.00001	-0.00001
	(B * !C * !D * !Y)	-0.00023	-0.00022	-0.00020
	(!B * C * D * !Y)	0.00018	0.00018	0.00018
	(!B * C * D * !Y)	0.00001	0.00001	0.00001
	(!B * C * D * !Y)	-0.00002	-0.00001	-0.00001
	(!B * C * D * !Y)	-0.00024	-0.00023	-0.00021
	(!B * !D * !Y)	0.00018	0.00018	0.00018
	(!B * !D * !Y)	0.00001	0.00001	0.00001
	(!B * !D * !Y)	-0.00001	-0.00001	-0.00001
	(!B * !D * !Y)	-0.00023	-0.00022	-0.00021
	(!B * !C * D * !Y)	0.00018	0.00018	0.00018
	(!B * !C * D * !Y)	0.00001	0.00001	0.00001
	(!B * !C * D * !Y)	-0.00001	-0.00001	-0.00001
	(!B * !C * D * !Y)	-0.00023	-0.00022	-0.00021

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X3H7H	(A * C * !D * !Y)	-0.00016	-0.00016	-0.00016
	(A * C * !D * !Y)	-0.00001	-0.00001	-0.00001
	(A * C * !D * !Y)	0.00001	0.00002	0.00002
	(A * C * !D * !Y)	0.00017	0.00018	0.00018
	(A * !C * D * !Y)	-0.00016	-0.00016	-0.00016
	(A * !C * D * !Y)	-0.00001	-0.00001	-0.00001
	(A * !C * D * !Y)	0.00000	0.00001	0.00002
	(A * !C * D * !Y)	0.00018	0.00018	0.00019
	(A * !C * !D * !Y)	-0.00016	-0.00016	-0.00016
	(A * !C * !D * !Y)	-0.00001	-0.00001	-0.00001
	(A * !C * !D * !Y)	0.00000	0.00001	0.00001
	(A * !C * !D * !Y)	0.00018	0.00018	0.00019
	(!A * C * D * !Y)	-0.00016	-0.00016	-0.00016
	(!A * C * D * !Y)	-0.00001	-0.00001	-0.00001
	(!A * C * D * !Y)	0.00004	0.00004	0.00004
	(!A * C * D * !Y)	0.00006	0.00006	0.00006
	(!A * C * !D * !Y)	-0.00016	-0.00016	-0.00016
	(!A * C * !D * !Y)	-0.00001	-0.00001	-0.00001
	(!A * C * !D * !Y)	0.00004	0.00005	0.00005
	(!A * C * !D * !Y)	0.00006	0.00006	0.00007
	(!A * !C * D * !Y)	-0.00016	-0.00016	-0.00016
	(!A * !C * D * !Y)	-0.00001	-0.00001	-0.00001
	(!A * !C * D * !Y)	0.00005	0.00005	0.00005
	(!A * !C * D * !Y)	0.00006	0.00006	0.00006
	(!A * !C * !D * !Y)	-0.00016	-0.00016	-0.00016
	(!A * !C * !D * !Y)	-0.00001	-0.00001	-0.00001
	(!A * !C * !D * !Y)	0.00005	0.00005	0.00005
	(!A * !C * !D * !Y)	0.00006	0.00006	0.00006

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X3H7H	(A * C * !D * !Y)	0.00016	0.00016	0.00016
	(A * C * !D * !Y)	0.00001	0.00001	0.00001
	(A * C * !D * !Y)	-0.00002	-0.00002	-0.00001
	(A * C * !D * !Y)	-0.00018	-0.00016	-0.00014
	(A * !C * D * !Y)	0.00016	0.00016	0.00016
	(A * !C * D * !Y)	0.00001	0.00001	0.00001
	(A * !C * D * !Y)	-0.00002	-0.00001	-0.00000
	(A * !C * D * !Y)	-0.00018	-0.00017	-0.00016
	(A * !C * !D * !Y)	0.00016	0.00016	0.00016
	(A * !C * !D * !Y)	0.00001	0.00001	0.00001
	(A * !C * !D * !Y)	-0.00001	-0.00001	-0.00000
	(A * !C * !D * !Y)	-0.00018	-0.00017	-0.00016
	(!A * C * D * !Y)	0.00016	0.00016	0.00016
	(!A * C * D * !Y)	0.00001	0.00001	0.00001
	(!A * C * D * !Y)	-0.00004	-0.00004	-0.00004
	(!A * C * D * !Y)	-0.00006	-0.00006	-0.00006
	(!A * C * !D * !Y)	0.00016	0.00016	0.00016
	(!A * C * !D * !Y)	0.00001	0.00001	0.00001
	(!A * C * !D * !Y)	-0.00005	-0.00005	-0.00004
	(!A * C * !D * !Y)	-0.00006	-0.00006	-0.00006
	(!A * !C * D * !Y)	0.00016	0.00016	0.00016
	(!A * !C * D * !Y)	0.00001	0.00001	0.00001
	(!A * !C * D * !Y)	-0.00005	-0.00005	-0.00005
	(!A * !C * D * !Y)	-0.00006	-0.00006	-0.00006
	(!A * !C * !D * !Y)	0.00016	0.00016	0.00016
	(!A * !C * !D * !Y)	0.00001	0.00001	0.00001
	(!A * !C * !D * !Y)	-0.00005	-0.00005	-0.00005
	(!A * !C * !D * !Y)	-0.00006	-0.00006	-0.00006

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X3H7H	(A * B * !D * !Y)	-0.00014	-0.00014	-0.00014
	(A * B * !D * !Y)	-0.00001	-0.00001	-0.00001
	(A * B * !D * !Y)	0.00001	0.00001	0.00002
	(A * B * !D * !Y)	0.00018	0.00019	0.00019
	(!B * D * !Y)	-0.00014	-0.00014	-0.00014
	(!B * D * !Y)	-0.00001	-0.00001	-0.00001
	(!B * D * !Y)	0.00003	0.00004	0.00004
	(!B * D * !Y)	0.00006	0.00007	0.00007
	(!B * !D * !Y)	-0.00014	-0.00014	-0.00014
	(!B * !D * !Y)	-0.00001	-0.00001	-0.00001
	(!B * !D * !Y)	0.00005	0.00005	0.00005
	(!B * !D * !Y)	0.00006	0.00006	0.00007
	(!A * B * D * !Y)	-0.00014	-0.00014	-0.00014
	(!A * B * D * !Y)	-0.00001	-0.00001	-0.00001
	(!A * B * D * !Y)	0.00003	0.00004	0.00004
	(!A * B * D * !Y)	0.00006	0.00007	0.00008
	(!A * B * !D * !Y)	-0.00015	-0.00014	-0.00014
	(!A * B * !D * !Y)	-0.00001	-0.00001	-0.00001
	(!A * B * !D * !Y)	0.00005	0.00005	0.00005
	(!A * B * !D * !Y)	0.00006	0.00006	0.00007

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X3H7H	(A * B * !D * !Y)	0.00014	0.00015	0.00016
	(A * B * !D * !Y)	0.00001	0.00001	0.00001
	(A * B * !D * !Y)	-0.00002	-0.00001	-0.00001
	(A * B * !D * !Y)	-0.00019	-0.00018	-0.00016
	(!B * D * !Y)	0.00014	0.00015	0.00014
	(!B * D * !Y)	0.00001	0.00001	0.00001
	(!B * D * !Y)	-0.00004	-0.00004	-0.00003
	(!B * D * !Y)	-0.00007	-0.00006	-0.00006
	(!B * !D * !Y)	0.00014	0.00015	0.00015
	(!B * !D * !Y)	0.00001	0.00001	0.00001
	(!B * !D * !Y)	-0.00005	-0.00005	-0.00005
	(!B * !D * !Y)	-0.00007	-0.00006	-0.00006
	(!A * B * D * !Y)	0.00014	0.00014	0.00015
	(!A * B * D * !Y)	0.00001	0.00001	0.00001
	(!A * B * D * !Y)	-0.00004	-0.00004	-0.00003
	(!A * B * D * !Y)	-0.00007	-0.00006	-0.00006
	(!A * B * !D * !Y)	0.00014	0.00015	0.00015
	(!A * B * !D * !Y)	0.00001	0.00001	0.00001
	(!A * B * !D * !Y)	-0.00005	-0.00005	-0.00005
	(!A * B * !D * !Y)	-0.00007	-0.00006	-0.00006

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X3H7H	(!C * !Y)	-0.00026	-0.00026	-0.00026
	(!C * !Y)	-0.00001	-0.00001	-0.00001
	(!C * !Y)	0.00002	0.00003	0.00003
	(!C * !Y)	0.00007	0.00007	0.00008
	(!B * C * !Y)	-0.00026	-0.00026	-0.00026
	(!B * C * !Y)	-0.00001	-0.00001	-0.00001
	(!B * C * !Y)	0.00001	0.00002	0.00003
	(!B * C * !Y)	0.00007	0.00007	0.00008
	(!A * B * C * !Y)	-0.00026	-0.00026	-0.00026
	(!A * B * C * !Y)	-0.00001	-0.00001	-0.00001
	(!A * B * C * !Y)	0.00002	0.00002	0.00003
	(!A * B * C * !Y)	0.00007	0.00007	0.00008

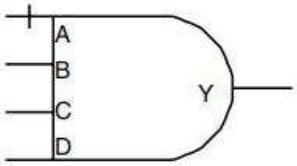
Passive power(pJ) for D falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X3H7H	(!C * !Y)	0.00026	0.00026	0.00026
	(!C * !Y)	0.00001	0.00001	0.00001
	(!C * !Y)	-0.00003	-0.00002	-0.00002
	(!C * !Y)	-0.00008	-0.00007	-0.00007
	(!B * C * !Y)	0.00026	0.00026	0.00026
	(!B * C * !Y)	0.00001	0.00001	0.00001
	(!B * C * !Y)	-0.00002	-0.00002	-0.00001
	(!B * C * !Y)	-0.00008	-0.00007	-0.00007
	(!A * B * C * !Y)	0.00026	0.00026	0.00026
	(!A * B * C * !Y)	0.00001	0.00001	0.00001
	(!A * B * C * !Y)	-0.00002	-0.00002	-0.00002
	(!A * B * C * !Y)	-0.00007	-0.00007	-0.00007

AND4X4H7H

Cell Description

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



Truth Table

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

Footprint

Cell Name	Area
AND4X4H7H	5.88000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A	B	C	D	Y
AND4X4H7H	0.00149	0.00147	0.00144	0.00156	0.11890

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AND4X4H7H	0.00000	0.04077	0.04464

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND4X4H7H	A->Y (RR)	0.15743	0.34412	0.78124
	B->Y (RR)	0.15477	0.34398	0.79169
	C->Y (RR)	0.14798	0.34004	0.79688
	D->Y (RR)	0.13428	0.32213	0.76800

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND4X4H7H	A->Y (FF)	0.10455	0.26045	0.63303
	B->Y (FF)	0.09964	0.25350	0.62086
	C->Y (FF)	0.09359	0.24576	0.60771
	D->Y (FF)	0.08629	0.23585	0.59060

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND4X4H7H	A	0.00174	0.00188	0.00206
	A	0.00005	0.00006	0.00007
	A	-0.00017	-0.00016	-0.00016
	A	0.00439	0.00454	0.00472
	B	0.00174	0.00188	0.00206
	B	0.00005	0.00006	0.00007
	B	-0.00010	-0.00010	-0.00010
	B	0.00398	0.00412	0.00430
	C	0.00174	0.00187	0.00206
	C	0.00005	0.00006	0.00006
	C	-0.00003	-0.00003	-0.00001
	C	0.00357	0.00371	0.00390
	D	0.00170	0.00184	0.00205
	D	0.00005	0.00006	0.00006
	D	0.00003	0.00004	0.00005
	D	0.00316	0.00331	0.00352

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND4X4H7H	A	0.00446	0.00463	0.00482
	A	-0.00006	-0.00006	-0.00004
	A	0.00016	0.00016	0.00017
	A	0.00205	0.00221	0.00240
	B	0.00414	0.00432	0.00451
	B	-0.00006	-0.00006	-0.00005
	B	0.00010	0.00010	0.00010
	B	0.00206	0.00223	0.00242
	C	0.00383	0.00401	0.00419
	C	-0.00006	-0.00006	-0.00005
	C	0.00001	0.00003	0.00003
	C	0.00208	0.00224	0.00242
	D	0.00347	0.00366	0.00384
	D	-0.00006	-0.00006	-0.00005
	D	-0.00004	-0.00004	-0.00003
	D	0.00200	0.00219	0.00239

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X4H7H	(B * C * !D * !Y)	-0.00022	-0.00022	-0.00022
	(B * C * !D * !Y)	-0.00002	-0.00002	-0.00002
	(B * C * !D * !Y)	0.00003	0.00003	0.00005
	(B * C * !D * !Y)	0.00043	0.00044	0.00044
	(B * !C * D * !Y)	-0.00022	-0.00022	-0.00022
	(B * !C * D * !Y)	-0.00002	-0.00002	-0.00001
	(B * !C * D * !Y)	0.00002	0.00003	0.00005
	(B * !C * D * !Y)	0.00044	0.00045	0.00046
	(B * !C * !D * !Y)	-0.00022	-0.00022	-0.00022
	(B * !C * !D * !Y)	-0.00002	-0.00002	-0.00002
	(B * !C * !D * !Y)	0.00002	0.00003	0.00003
	(B * !C * !D * !Y)	0.00045	0.00045	0.00046
	(!B * C * D * !Y)	-0.00022	-0.00022	-0.00021
	(!B * C * D * !Y)	-0.00002	-0.00002	-0.00001
	(!B * C * D * !Y)	0.00002	0.00003	0.00004
	(!B * C * D * !Y)	0.00045	0.00047	0.00047
	(!B * !D * !Y)	-0.00022	-0.00022	-0.00022
	(!B * !D * !Y)	-0.00002	-0.00002	-0.00002
	(!B * !D * !Y)	0.00003	0.00003	0.00004
	(!B * !D * !Y)	0.00045	0.00046	0.00047
	(!B * !C * D * !Y)	-0.00022	-0.00022	-0.00022
	(!B * !C * D * !Y)	-0.00002	-0.00002	-0.00002
	(!B * !C * D * !Y)	0.00003	0.00003	0.00004
	(!B * !C * D * !Y)	0.00045	0.00046	0.00047

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X4H7H	(B * C * !D * !Y)	0.00022	0.00022	0.00022
	(B * C * !D * !Y)	0.00002	0.00002	0.00002
	(B * C * !D * !Y)	-0.00005	-0.00003	-0.00003
	(B * C * !D * !Y)	-0.00044	-0.00041	-0.00037
	(B * !C * D * !Y)	0.00022	0.00022	0.00022
	(B * !C * D * !Y)	0.00002	0.00002	0.00002
	(B * !C * D * !Y)	-0.00003	-0.00003	-0.00002
	(B * !C * D * !Y)	-0.00045	-0.00042	-0.00039
	(B * !C * !D * !Y)	0.00022	0.00022	0.00022
	(B * !C * !D * !Y)	0.00002	0.00002	0.00002
	(B * !C * !D * !Y)	-0.00003	-0.00003	-0.00002
	(B * !C * !D * !Y)	-0.00045	-0.00042	-0.00039
	(!B * C * D * !Y)	0.00022	0.00022	0.00022
	(!B * C * D * !Y)	0.00002	0.00002	0.00002
	(!B * C * D * !Y)	-0.00004	-0.00003	-0.00002
	(!B * C * D * !Y)	-0.00047	-0.00044	-0.00040
	(!B * !D * !Y)	0.00022	0.00022	0.00022
	(!B * !D * !Y)	0.00002	0.00002	0.00002
	(!B * !D * !Y)	-0.00003	-0.00003	-0.00002
	(!B * !D * !Y)	-0.00047	-0.00045	-0.00042
	(!B * !C * D * !Y)	0.00022	0.00022	0.00022
	(!B * !C * D * !Y)	0.00002	0.00002	0.00002
	(!B * !C * D * !Y)	-0.00003	-0.00003	-0.00002
	(!B * !C * D * !Y)	-0.00047	-0.00044	-0.00042

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X4H7H	(A * C * !D * !Y)	-0.00022	-0.00022	-0.00022
	(A * C * !D * !Y)	-0.00002	-0.00002	-0.00002
	(A * C * !D * !Y)	0.00001	0.00002	0.00003
	(A * C * !D * !Y)	0.00043	0.00043	0.00044
	(A * !C * D * !Y)	-0.00022	-0.00022	-0.00022
	(A * !C * D * !Y)	-0.00002	-0.00002	-0.00002
	(A * !C * D * !Y)	0.00002	0.00003	0.00004
	(A * !C * D * !Y)	0.00043	0.00044	0.00045
	(A * !C * !D * !Y)	-0.00022	-0.00022	-0.00022
	(A * !C * !D * !Y)	-0.00002	-0.00002	-0.00001
	(A * !C * !D * !Y)	0.00003	0.00003	0.00004
	(A * !C * !D * !Y)	0.00042	0.00043	0.00044
	(!A * C * D * !Y)	-0.00022	-0.00022	-0.00022
	(!A * C * D * !Y)	-0.00002	-0.00002	-0.00002
	(!A * C * D * !Y)	0.00006	0.00007	0.00008
	(!A * C * D * !Y)	0.00015	0.00015	0.00016
	(!A * C * !D * !Y)	-0.00023	-0.00023	-0.00023
	(!A * C * !D * !Y)	-0.00002	-0.00002	-0.00002
	(!A * C * !D * !Y)	0.00008	0.00009	0.00009
	(!A * C * !D * !Y)	0.00016	0.00016	0.00016
	(!A * !C * D * !Y)	-0.00022	-0.00022	-0.00022
	(!A * !C * D * !Y)	-0.00002	-0.00002	-0.00002
	(!A * !C * D * !Y)	0.00009	0.00009	0.00011
	(!A * !C * D * !Y)	0.00013	0.00015	0.00016
	(!A * !C * !D * !Y)	-0.00023	-0.00022	-0.00022
	(!A * !C * !D * !Y)	-0.00002	-0.00002	-0.00002
	(!A * !C * !D * !Y)	0.00009	0.00009	0.00009
	(!A * !C * !D * !Y)	0.00015	0.00015	0.00016

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X4H7H	(A * C * !D * !Y)	0.00022	0.00022	0.00023
	(A * C * !D * !Y)	0.00002	0.00002	0.00002
	(A * C * !D * !Y)	-0.00003	-0.00002	-0.00001
	(A * C * !D * !Y)	-0.00043	-0.00040	-0.00034
	(A * !C * D * !Y)	0.00022	0.00022	0.00022
	(A * !C * D * !Y)	0.00002	0.00002	0.00002
	(A * !C * D * !Y)	-0.00004	-0.00003	-0.00002
	(A * !C * D * !Y)	-0.00044	-0.00041	-0.00036
	(A * !C * !D * !Y)	0.00022	0.00022	0.00022
	(A * !C * !D * !Y)	0.00002	0.00002	0.00002
	(A * !C * !D * !Y)	-0.00004	-0.00003	-0.00003
	(A * !C * !D * !Y)	-0.00044	-0.00041	-0.00036
	(!A * C * D * !Y)	0.00023	0.00023	0.00023
	(!A * C * D * !Y)	0.00002	0.00002	0.00002
	(!A * C * D * !Y)	-0.00008	-0.00007	-0.00006
	(!A * C * D * !Y)	-0.00015	-0.00015	-0.00014
	(!A * C * !D * !Y)	0.00023	0.00023	0.00023
	(!A * C * !D * !Y)	0.00002	0.00002	0.00002
	(!A * C * !D * !Y)	-0.00009	-0.00008	-0.00007
	(!A * C * !D * !Y)	-0.00016	-0.00016	-0.00016
	(!A * !C * D * !Y)	0.00022	0.00022	0.00023
	(!A * !C * D * !Y)	0.00002	0.00002	0.00002
	(!A * !C * D * !Y)	-0.00010	-0.00009	-0.00009
	(!A * !C * D * !Y)	-0.00016	-0.00015	-0.00013
	(!A * !C * !D * !Y)	0.00022	0.00022	0.00023
	(!A * !C * !D * !Y)	0.00002	0.00002	0.00002
	(!A * !C * !D * !Y)	-0.00009	-0.00009	-0.00009
	(!A * !C * !D * !Y)	-0.00016	-0.00015	-0.00015

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X4H7H	(A * B * !D * !Y)	-0.00022	-0.00022	-0.00022
	(A * B * !D * !Y)	-0.00002	-0.00002	-0.00002
	(A * B * !D * !Y)	0.00001	0.00002	0.00003
	(A * B * !D * !Y)	0.00044	0.00045	0.00046
	(!B * D * !Y)	-0.00024	-0.00023	-0.00023
	(!B * D * !Y)	-0.00002	-0.00002	-0.00002
	(!B * D * !Y)	0.00006	0.00007	0.00007
	(!B * D * !Y)	0.00016	0.00017	0.00018
	(!B * !D * !Y)	-0.00024	-0.00024	-0.00023
	(!B * !D * !Y)	-0.00002	-0.00002	-0.00001
	(!B * !D * !Y)	0.00008	0.00009	0.00010
	(!B * !D * !Y)	0.00015	0.00017	0.00017
	(!A * B * D * !Y)	-0.00023	-0.00023	-0.00023
	(!A * B * D * !Y)	-0.00002	-0.00002	-0.00002
	(!A * B * D * !Y)	0.00006	0.00007	0.00007
	(!A * B * D * !Y)	0.00016	0.00016	0.00017
	(!A * B * !D * !Y)	-0.00023	-0.00023	-0.00023
	(!A * B * !D * !Y)	-0.00002	-0.00002	-0.00002
	(!A * B * !D * !Y)	0.00008	0.00009	0.00009
	(!A * B * !D * !Y)	0.00016	0.00016	0.00016

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X4H7H	(A * B * !D * !Y)	0.00022	0.00023	0.00025
	(A * B * !D * !Y)	0.00002	0.00002	0.00002
	(A * B * !D * !Y)	-0.00003	-0.00002	-0.00001
	(A * B * !D * !Y)	-0.00045	-0.00043	-0.00038
	(!B * D * !Y)	0.00024	0.00024	0.00024
	(!B * D * !Y)	0.00002	0.00002	0.00002
	(!B * D * !Y)	-0.00007	-0.00007	-0.00006
	(!B * D * !Y)	-0.00017	-0.00016	-0.00015
	(!B * !D * !Y)	0.00024	0.00024	0.00024
	(!B * !D * !Y)	0.00002	0.00002	0.00002
	(!B * !D * !Y)	-0.00009	-0.00009	-0.00008
	(!B * !D * !Y)	-0.00017	-0.00017	-0.00015
	(!A * B * D * !Y)	0.00024	0.00024	0.00024
	(!A * B * D * !Y)	0.00002	0.00002	0.00002
	(!A * B * D * !Y)	-0.00007	-0.00007	-0.00006
	(!A * B * D * !Y)	-0.00015	-0.00015	-0.00014
	(!A * B * !D * !Y)	0.00023	0.00023	0.00023
	(!A * B * !D * !Y)	0.00002	0.00002	0.00002
	(!A * B * !D * !Y)	-0.00009	-0.00009	-0.00008
	(!A * B * !D * !Y)	-0.00016	-0.00016	-0.00015

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X4H7H	(!C * !Y)	-0.00043	-0.00042	-0.00042
	(!C * !Y)	-0.00002	-0.00002	-0.00002
	(!C * !Y)	0.00004	0.00004	0.00005
	(!C * !Y)	0.00016	0.00016	0.00017
	(!B * C * !Y)	-0.00042	-0.00042	-0.00042
	(!B * C * !Y)	-0.00002	-0.00002	-0.00002
	(!B * C * !Y)	0.00004	0.00004	0.00005
	(!B * C * !Y)	0.00014	0.00014	0.00015
	(!A * B * C * !Y)	-0.00042	-0.00042	-0.00042
	(!A * B * C * !Y)	-0.00002	-0.00002	-0.00002
	(!A * B * C * !Y)	0.00003	0.00004	0.00005
	(!A * B * C * !Y)	0.00013	0.00014	0.00015

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

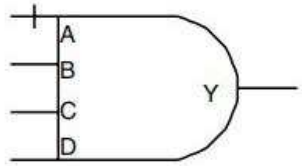
Cell Name	When	Power(pJ)		
		min	avg	max
AND4X4H7H	(!C * !Y)	0.00042	0.00042	0.00043
	(!C * !Y)	0.00002	0.00002	0.00002
	(!C * !Y)	-0.00004	-0.00004	-0.00004
	(!C * !Y)	-0.00016	-0.00016	-0.00015
	(!B * C * !Y)	0.00042	0.00042	0.00043
	(!B * C * !Y)	0.00002	0.00002	0.00002
	(!B * C * !Y)	-0.00005	-0.00004	-0.00004
	(!B * C * !Y)	-0.00015	-0.00014	-0.00014
	(!A * B * C * !Y)	0.00042	0.00042	0.00043
	(!A * B * C * !Y)	0.00002	0.00002	0.00002
	(!A * B * C * !Y)	-0.00004	-0.00004	-0.00003
	(!A * B * C * !Y)	-0.00014	-0.00014	-0.00013

AND4X6H7H

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

Cell Description

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



Truth Table

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

Footprint

Cell Name	Area
AND4X6H7H	5.88000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A	B	C	D	Y
AND4X6H7H	0.00161	0.00157	0.00156	0.00166	0.16879

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AND4X6H7H	0.00000	0.04355	0.10591

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND4X6H7H	A->Y (RR)	0.16945	0.36150	0.80315
	B->Y (RR)	0.16659	0.36157	0.81533
	C->Y (RR)	0.16005	0.35837	0.82371
	D->Y (RR)	0.14589	0.34034	0.79709

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND4X6H7H	A->Y (FF)	0.08261	0.24149	0.61960
	B->Y (FF)	0.07937	0.23648	0.60952
	C->Y (FF)	0.07554	0.23095	0.59945
	D->Y (FF)	0.07039	0.22341	0.58543

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND4X6H7H	A	0.00197	0.00214	0.00234
	A	0.00009	0.00009	0.00009
	A	-0.00013	-0.00013	-0.00012
	A	0.00478	0.00494	0.00515
	B	0.00198	0.00213	0.00234
	B	0.00008	0.00009	0.00010
	B	-0.00006	-0.00006	-0.00006
	B	0.00436	0.00452	0.00473
	C	0.00197	0.00213	0.00234
	C	0.00009	0.00009	0.00010
	C	0.00000	0.00000	0.00000
	C	0.00396	0.00412	0.00433
	D	0.00194	0.00210	0.00233
	D	0.00009	0.00009	0.00010
	D	0.00006	0.00008	0.00008
	D	0.00354	0.00371	0.00395

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND4X6H7H	A	0.00495	0.00515	0.00536
	A	-0.00009	-0.00009	-0.00007
	A	0.00012	0.00013	0.00013
	A	0.00238	0.00258	0.00279
	B	0.00463	0.00484	0.00504
	B	-0.00009	-0.00009	-0.00008
	B	0.00006	0.00006	0.00006
	B	0.00240	0.00260	0.00281
	C	0.00432	0.00454	0.00473
	C	-0.00009	-0.00009	-0.00009
	C	0.00000	0.00000	0.00000
	C	0.00240	0.00262	0.00281
	D	0.00395	0.00417	0.00437
	D	-0.00009	-0.00009	-0.00008
	D	-0.00008	-0.00008	-0.00006
	D	0.00234	0.00256	0.00277

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X6H7H	(B * C * !D * !Y)	-0.00029	-0.00029	-0.00029
	(B * C * !D * !Y)	-0.00002	-0.00002	-0.00002
	(B * C * !D * !Y)	0.00001	0.00003	0.00003
	(B * C * !D * !Y)	0.00043	0.00044	0.00044
	(B * !C * D * !Y)	-0.00029	-0.00029	-0.00029
	(B * !C * D * !Y)	-0.00002	-0.00002	-0.00002
	(B * !C * D * !Y)	0.00002	0.00003	0.00003
	(B * !C * D * !Y)	0.00044	0.00045	0.00046
	(B * !C * !D * !Y)	-0.00029	-0.00029	-0.00028
	(B * !C * !D * !Y)	-0.00002	-0.00002	-0.00002
	(B * !C * !D * !Y)	0.00003	0.00003	0.00004
	(B * !C * !D * !Y)	0.00043	0.00044	0.00044
	(!B * C * D * !Y)	-0.00029	-0.00029	-0.00028
	(!B * C * D * !Y)	-0.00002	-0.00002	-0.00002
	(!B * C * D * !Y)	0.00002	0.00003	0.00005
	(!B * C * D * !Y)	0.00044	0.00046	0.00047
	(!B * !D * !Y)	-0.00029	-0.00029	-0.00028
	(!B * !D * !Y)	-0.00002	-0.00002	-0.00002
	(!B * !D * !Y)	0.00003	0.00003	0.00004
	(!B * !D * !Y)	0.00045	0.00046	0.00046
	(!B * !C * D * !Y)	-0.00029	-0.00029	-0.00028
	(!B * !C * D * !Y)	-0.00002	-0.00002	-0.00002
	(!B * !C * D * !Y)	0.00003	0.00003	0.00004
	(!B * !C * D * !Y)	0.00045	0.00046	0.00046

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X6H7H	(B * C * !D * !Y)	0.00029	0.00029	0.00029
	(B * C * !D * !Y)	0.00002	0.00002	0.00002
	(B * C * !D * !Y)	-0.00003	-0.00003	-0.00001
	(B * C * !D * !Y)	-0.00044	-0.00041	-0.00038
	(B * !C * D * !Y)	0.00029	0.00029	0.00029
	(B * !C * D * !Y)	0.00002	0.00002	0.00002
	(B * !C * D * !Y)	-0.00003	-0.00003	-0.00002
	(B * !C * D * !Y)	-0.00044	-0.00041	-0.00035
	(B * !C * !D * !Y)	0.00028	0.00029	0.00029
	(B * !C * !D * !Y)	0.00002	0.00002	0.00002
	(B * !C * !D * !Y)	-0.00004	-0.00003	-0.00003
	(B * !C * !D * !Y)	-0.00044	-0.00041	-0.00037
	(!B * C * D * !Y)	0.00028	0.00029	0.00029
	(!B * C * D * !Y)	0.00002	0.00002	0.00002
	(!B * C * D * !Y)	-0.00003	-0.00003	-0.00002
	(!B * C * D * !Y)	-0.00046	-0.00044	-0.00041
	(!B * !D * !Y)	0.00028	0.00029	0.00029
	(!B * !D * !Y)	0.00002	0.00002	0.00002
	(!B * !D * !Y)	-0.00004	-0.00003	-0.00003
	(!B * !D * !Y)	-0.00046	-0.00044	-0.00039
	(!B * !C * D * !Y)	0.00028	0.00029	0.00029
	(!B * !C * D * !Y)	0.00002	0.00002	0.00002
	(!B * !C * D * !Y)	-0.00004	-0.00003	-0.00003
	(!B * !C * D * !Y)	-0.00046	-0.00044	-0.00039

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X6H7H	(A * C * !D * !Y)	-0.00029	-0.00029	-0.00029
	(A * C * !D * !Y)	-0.00002	-0.00002	-0.00002
	(A * C * !D * !Y)	0.00001	0.00003	0.00003
	(A * C * !D * !Y)	0.00041	0.00042	0.00042
	(A * !C * D * !Y)	-0.00029	-0.00028	-0.00028
	(A * !C * D * !Y)	-0.00002	-0.00002	-0.00002
	(A * !C * D * !Y)	0.00001	0.00003	0.00003
	(A * !C * D * !Y)	0.00043	0.00043	0.00044
	(A * !C * !D * !Y)	-0.00029	-0.00029	-0.00029
	(A * !C * !D * !Y)	-0.00002	-0.00002	-0.00002
	(A * !C * !D * !Y)	0.00003	0.00003	0.00003
	(A * !C * !D * !Y)	0.00042	0.00042	0.00043
	(!A * C * D * !Y)	-0.00029	-0.00029	-0.00028
	(!A * C * D * !Y)	-0.00002	-0.00002	-0.00002
	(!A * C * D * !Y)	0.00007	0.00007	0.00008
	(!A * C * D * !Y)	0.00013	0.00015	0.00015
	(!A * C * !D * !Y)	-0.00030	-0.00030	-0.00029
	(!A * C * !D * !Y)	-0.00002	-0.00002	-0.00002
	(!A * C * !D * !Y)	0.00008	0.00008	0.00008
	(!A * C * !D * !Y)	0.00016	0.00016	0.00016
	(!A * !C * D * !Y)	-0.00029	-0.00029	-0.00029
	(!A * !C * D * !Y)	-0.00002	-0.00002	-0.00002
	(!A * !C * D * !Y)	0.00009	0.00009	0.00009
	(!A * !C * D * !Y)	0.00014	0.00015	0.00015
	(!A * !C * !D * !Y)	-0.00029	-0.00029	-0.00029
	(!A * !C * !D * !Y)	-0.00002	-0.00002	-0.00002
	(!A * !C * !D * !Y)	0.00008	0.00009	0.00009
	(!A * !C * !D * !Y)	0.00015	0.00015	0.00015

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X6H7H	(A * C * !D * !Y)	0.00029	0.00029	0.00029
	(A * C * !D * !Y)	0.00002	0.00002	0.00002
	(A * C * !D * !Y)	-0.00003	-0.00003	-0.00001
	(A * C * !D * !Y)	-0.00042	-0.00039	-0.00035
	(A * !C * D * !Y)	0.00029	0.00029	0.00029
	(A * !C * D * !Y)	0.00002	0.00002	0.00002
	(A * !C * D * !Y)	-0.00003	-0.00003	-0.00001
	(A * !C * D * !Y)	-0.00043	-0.00040	-0.00038
	(A * !C * !D * !Y)	0.00029	0.00029	0.00029
	(A * !C * !D * !Y)	0.00002	0.00002	0.00002
	(A * !C * !D * !Y)	-0.00003	-0.00003	-0.00003
	(A * !C * !D * !Y)	-0.00043	-0.00040	-0.00038
	(!A * C * D * !Y)	0.00029	0.00029	0.00029
	(!A * C * D * !Y)	0.00002	0.00002	0.00002
	(!A * C * D * !Y)	-0.00007	-0.00007	-0.00006
	(!A * C * D * !Y)	-0.00015	-0.00014	-0.00013
	(!A * C * !D * !Y)	0.00029	0.00030	0.00030
	(!A * C * !D * !Y)	0.00002	0.00002	0.00002
	(!A * C * !D * !Y)	-0.00008	-0.00008	-0.00008
	(!A * C * !D * !Y)	-0.00016	-0.00016	-0.00015
	(!A * !C * D * !Y)	0.00029	0.00029	0.00029
	(!A * !C * D * !Y)	0.00002	0.00002	0.00002
	(!A * !C * D * !Y)	-0.00009	-0.00009	-0.00009
	(!A * !C * D * !Y)	-0.00015	-0.00015	-0.00013
	(!A * !C * !D * !Y)	0.00029	0.00029	0.00029
	(!A * !C * !D * !Y)	0.00002	0.00002	0.00002
	(!A * !C * !D * !Y)	-0.00009	-0.00009	-0.00008
	(!A * !C * !D * !Y)	-0.00015	-0.00015	-0.00015

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X6H7H	(A * B * !D * !Y)	-0.00029	-0.00029	-0.00029
	(A * B * !D * !Y)	-0.00002	-0.00002	-0.00002
	(A * B * !D * !Y)	0.00001	0.00002	0.00002
	(A * B * !D * !Y)	0.00045	0.00045	0.00046
	(!B * D * !Y)	-0.00030	-0.00030	-0.00030
	(!B * D * !Y)	-0.00002	-0.00002	-0.00002
	(!B * D * !Y)	0.00005	0.00007	0.00007
	(!B * D * !Y)	0.00016	0.00017	0.00018
	(!B * !D * !Y)	-0.00031	-0.00030	-0.00030
	(!B * !D * !Y)	-0.00002	-0.00002	-0.00002
	(!B * !D * !Y)	0.00008	0.00008	0.00009
	(!B * !D * !Y)	0.00016	0.00017	0.00017
	(!A * B * D * !Y)	-0.00030	-0.00030	-0.00030
	(!A * B * D * !Y)	-0.00002	-0.00002	-0.00002
	(!A * B * D * !Y)	0.00007	0.00007	0.00009
	(!A * B * D * !Y)	0.00013	0.00015	0.00016
	(!A * B * !D * !Y)	-0.00030	-0.00030	-0.00030
	(!A * B * !D * !Y)	-0.00002	-0.00002	-0.00002
	(!A * B * !D * !Y)	0.00008	0.00008	0.00008
	(!A * B * !D * !Y)	0.00016	0.00016	0.00016

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X6H7H	(A * B * !D * !Y)	0.00029	0.00030	0.00032
	(A * B * !D * !Y)	0.00002	0.00002	0.00002
	(A * B * !D * !Y)	-0.00002	-0.00002	-0.00001
	(A * B * !D * !Y)	-0.00045	-0.00042	-0.00038
	(!B * D * !Y)	0.00030	0.00031	0.00031
	(!B * D * !Y)	0.00002	0.00002	0.00002
	(!B * D * !Y)	-0.00007	-0.00007	-0.00005
	(!B * D * !Y)	-0.00016	-0.00016	-0.00016
	(!B * !D * !Y)	0.00030	0.00031	0.00031
	(!B * !D * !Y)	0.00002	0.00002	0.00002
	(!B * !D * !Y)	-0.00009	-0.00008	-0.00008
	(!B * !D * !Y)	-0.00017	-0.00017	-0.00016
	(!A * B * D * !Y)	0.00030	0.00031	0.00031
	(!A * B * D * !Y)	0.00002	0.00002	0.00002
	(!A * B * D * !Y)	-0.00007	-0.00007	-0.00006
	(!A * B * D * !Y)	-0.00015	-0.00014	-0.00013
	(!A * B * !D * !Y)	0.00030	0.00030	0.00030
	(!A * B * !D * !Y)	0.00002	0.00002	0.00002
	(!A * B * !D * !Y)	-0.00008	-0.00008	-0.00008
	(!A * B * !D * !Y)	-0.00016	-0.00016	-0.00016

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X6H7H	(!C * !Y)	-0.00049	-0.00048	-0.00048
	(!C * !Y)	-0.00002	-0.00002	-0.00002
	(!C * !Y)	0.00004	0.00004	0.00006
	(!C * !Y)	0.00014	0.00015	0.00015
	(!B * C * !Y)	-0.00049	-0.00048	-0.00048
	(!B * C * !Y)	-0.00002	-0.00002	-0.00002
	(!B * C * !Y)	0.00003	0.00004	0.00004
	(!B * C * !Y)	0.00013	0.00014	0.00014
	(!A * B * C * !Y)	-0.00049	-0.00048	-0.00048
	(!A * B * C * !Y)	-0.00002	-0.00002	-0.00002
	(!A * B * C * !Y)	0.00004	0.00005	0.00006
	(!A * B * C * !Y)	0.00012	0.00013	0.00013

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X6H7H	(!C * !Y)	0.00048	0.00049	0.00049
	(!C * !Y)	0.00002	0.00002	0.00002
	(!C * !Y)	-0.00006	-0.00004	-0.00003
	(!C * !Y)	-0.00015	-0.00015	-0.00013
	(!B * C * !Y)	0.00048	0.00049	0.00049
	(!B * C * !Y)	0.00002	0.00002	0.00002
	(!B * C * !Y)	-0.00004	-0.00004	-0.00003
	(!B * C * !Y)	-0.00014	-0.00014	-0.00013
	(!A * B * C * !Y)	0.00048	0.00049	0.00049
	(!A * B * C * !Y)	0.00002	0.00002	0.00002
	(!A * B * C * !Y)	-0.00004	-0.00004	-0.00004
	(!A * B * C * !Y)	-0.00013	-0.00013	-0.00012

AO211X0P5H7H

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

Cell Description

Y=(A0 & A1)B0C0

Truth Table

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

Footprint

Cell Name	Area
AO211X0P5H7H	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	Y
AO211X0P5H7H	0.00084	0.00085	0.00083	0.00093	0.03039

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO211X0P5H7H	0.00000	0.01302	0.01857

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO211X0P5H7H	A0->Y (RR)	0.08909	0.26484	0.69940
	A1->Y (RR)	0.08573	0.26017	0.68639
	B0->Y (RR)	0.05545	0.22559	0.63991
	C0->Y (RR)	0.05423	0.22254	0.63251

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO211X0P5H7H	A0->Y (FF)	0.16136	0.31138	0.66588
	A1->Y (FF)	0.14808	0.29620	0.64669
	B0->Y (FF)	0.14978	0.29930	0.65942
	C0->Y (FF)	0.14432	0.28889	0.64129

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO211X0P5H7H	A0	0.00036	0.00042	0.00047
	A0	0.00010	0.00010	0.00010
	A0	-0.00009	-0.00009	-0.00009
	A0	0.00175	0.00181	0.00187
	A1	0.00036	0.00041	0.00047
	A1	0.00010	0.00010	0.00010
	A1	-0.00005	-0.00005	-0.00005
	A1	0.00154	0.00160	0.00166
	B0	0.00035	0.00041	0.00046
	B0	0.00004	0.00005	0.00005
	B0	-0.00005	-0.00005	-0.00005
	B0	0.00149	0.00155	0.00160
	C0	0.00035	0.00041	0.00047
	C0	-0.00000	0.00000	0.00000
	C0	-0.00005	-0.00005	-0.00005
	C0	0.00142	0.00149	0.00154

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO211X0P5H7H	A0	0.00191	0.00196	0.00202
	A0	-0.00010	-0.00010	-0.00010
	A0	0.00009	0.00009	0.00009
	A0	0.00045	0.00050	0.00056
	A1	0.00177	0.00182	0.00188
	A1	-0.00010	-0.00010	-0.00010
	A1	0.00005	0.00005	0.00005
	A1	0.00049	0.00055	0.00061
	B0	0.00159	0.00164	0.00169
	B0	-0.00005	-0.00005	-0.00004
	B0	0.00008	0.00009	0.00009
	B0	0.00044	0.00049	0.00055
	C0	0.00145	0.00150	0.00157
	C0	0.00000	0.00000	0.00000
	C0	0.00009	0.00009	0.00009
	C0	0.00040	0.00045	0.00052

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X0P5H7H	(A1 * B0 * C0 * Y)	-0.00010	-0.00009	-0.00007
	(A1 * B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * Y)	0.00029	0.00029	0.00030
	(A1 * B0 * !C0 * Y)	-0.00010	-0.00009	-0.00006
	(A1 * B0 * !C0 * Y)	-0.00003	-0.00002	-0.00002
	(A1 * B0 * !C0 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !C0 * Y)	0.00029	0.00029	0.00029
	(A1 * !B0 * C0 * Y)	-0.00010	-0.00008	-0.00006
	(A1 * !B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00001
	(A1 * !B0 * C0 * Y)	0.00029	0.00029	0.00029
	(!A1 * B0 * Y)	-0.00014	-0.00014	-0.00014
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * Y)	0.00026	0.00026	0.00026
	(!A1 * !B0 * C0 * Y)	-0.00014	-0.00014	-0.00013
	(!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * Y)	0.00026	0.00026	0.00026
	(!A1 * !B0 * !C0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * !C0 * !Y)	0.00020	0.00021	0.00021

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X0P5H7H	(A1 * B0 * C0 * Y)	0.00010	0.00010	0.00010
	(A1 * B0 * C0 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * Y)	-0.00029	-0.00029	-0.00029
	(A1 * B0 * !C0 * Y)	0.00010	0.00010	0.00010
	(A1 * B0 * !C0 * Y)	0.00002	0.00002	0.00003
	(A1 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * Y)	-0.00029	-0.00029	-0.00029
	(A1 * !B0 * C0 * Y)	0.00010	0.00010	0.00010
	(A1 * !B0 * C0 * Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * C0 * Y)	-0.00029	-0.00029	-0.00029
	(!A1 * B0 * Y)	0.00014	0.00014	0.00014
	(!A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * Y)	-0.00026	-0.00025	-0.00024
	(!A1 * !B0 * C0 * Y)	0.00014	0.00014	0.00014
	(!A1 * !B0 * C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * Y)	-0.00026	-0.00025	-0.00024
	(!A1 * !B0 * !C0 * !Y)	0.00019	0.00019	0.00020
	(!A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * !Y)	-0.00021	-0.00020	-0.00018

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X0P5H7H	(A0 * B0 * C0 * Y)	-0.00010	-0.00009	-0.00007
	(A0 * B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00001
	(A0 * B0 * C0 * Y)	0.00024	0.00024	0.00024
	(A0 * B0 * !C0 * Y)	-0.00010	-0.00009	-0.00007
	(A0 * B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * Y)	0.00024	0.00024	0.00025
	(A0 * !B0 * C0 * Y)	-0.00010	-0.00008	-0.00006
	(A0 * !B0 * C0 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * C0 * Y)	0.00024	0.00024	0.00024
	(!A0 * B0 * C0 * Y)	-0.00015	-0.00015	-0.00014
	(!A0 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * C0 * Y)	0.00020	0.00021	0.00021
	(!A0 * B0 * !C0 * Y)	-0.00015	-0.00015	-0.00014
	(!A0 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * !C0 * Y)	0.00021	0.00021	0.00021
	(!A0 * !B0 * C0 * Y)	-0.00015	-0.00014	-0.00014
	(!A0 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * Y)	0.00020	0.00021	0.00021
	(!A0 * !B0 * !C0 * !Y)	-0.00024	-0.00023	-0.00023
	(!A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !B0 * !C0 * !Y)	0.00005	0.00005	0.00005

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X0P5H7H	(A0 * B0 * C0 * Y)	0.00010	0.00010	0.00010
	(A0 * B0 * C0 * Y)	0.00002	0.00002	0.00002
	(A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * Y)	-0.00024	-0.00024	-0.00023
	(A0 * B0 * !C0 * Y)	0.00010	0.00010	0.00010
	(A0 * B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(A0 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !C0 * Y)	-0.00024	-0.00024	-0.00024
	(A0 * !B0 * C0 * Y)	0.00010	0.00010	0.00010
	(A0 * !B0 * C0 * Y)	0.00002	0.00003	0.00003
	(A0 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * C0 * Y)	-0.00024	-0.00024	-0.00024
	(!A0 * B0 * C0 * Y)	0.00014	0.00015	0.00015
	(!A0 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * C0 * Y)	-0.00021	-0.00020	-0.00019
	(!A0 * B0 * !C0 * Y)	0.00015	0.00015	0.00015
	(!A0 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !C0 * Y)	-0.00021	-0.00020	-0.00019
	(!A0 * !B0 * C0 * Y)	0.00015	0.00015	0.00015
	(!A0 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * Y)	-0.00021	-0.00020	-0.00019
	(!A0 * !B0 * !C0 * !Y)	0.00023	0.00023	0.00024
	(!A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !C0 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * !B0 * !C0 * !Y)	-0.00005	-0.00005	-0.00005

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X0P5H7H	(A0 * A1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * C0 * Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * Y)	0.00025	0.00026	0.00026
	(A0 * A1 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !C0 * Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * Y)	0.00025	0.00025	0.00025
	(!A1 * C0 * Y)	-0.00012	-0.00011	-0.00010
	(!A1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * C0 * Y)	0.00024	0.00024	0.00025
	(!A0 * A1 * C0 * Y)	-0.00012	-0.00011	-0.00010
	(!A0 * A1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * C0 * Y)	0.00024	0.00024	0.00024

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X0P5H7H	(A0 * A1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * Y)	0.00005	0.00005	0.00005
	(A0 * A1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * C0 * Y)	-0.00025	-0.00025	-0.00025
	(A0 * A1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * Y)	0.00004	0.00004	0.00005
	(A0 * A1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !C0 * Y)	-0.00025	-0.00025	-0.00025
	(!A1 * C0 * Y)	0.00012	0.00012	0.00012
	(!A1 * C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * C0 * Y)	-0.00024	-0.00024	-0.00023
	(!A0 * A1 * C0 * Y)	0.00012	0.00012	0.00012
	(!A0 * A1 * C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * C0 * Y)	-0.00024	-0.00024	-0.00023

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X0P5H7H	(A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00034	0.00035	0.00035
	(A0 * A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * Y)	0.00034	0.00035	0.00035
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * Y)	0.00034	0.00035	0.00035

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X0P5H7H	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00004	0.00004	0.00004
	(A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * Y)	-0.00035	-0.00035	-0.00034
	(A0 * A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B0 * Y)	-0.00035	-0.00035	-0.00034
	(!A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * Y)	0.00003	0.00003	0.00003
	(!A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * Y)	-0.00035	-0.00034	-0.00034

AO211X0P7H7H

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

Cell Description

Y=(A0 & A1)B0C0

Truth Table

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

Footprint

Cell Name	Area
AO211X0P7H7H	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	Y
AO211X0P7H7H	0.00084	0.00085	0.00083	0.00093	0.03455

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO211X0P7H7H	0.00000	0.01463	0.01809

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO211X0P7H7H	A0->Y (RR)	0.08821	0.26471	0.70052
	A1->Y (RR)	0.08477	0.26011	0.68773
	B0->Y (RR)	0.05416	0.22496	0.64092
	C0->Y (RR)	0.05298	0.22199	0.63365

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO211X0P7H7H	A0->Y (FF)	0.16207	0.31410	0.67188
	A1->Y (FF)	0.14871	0.29889	0.65290
	B0->Y (FF)	0.15023	0.30184	0.66505
	C0->Y (FF)	0.14497	0.29161	0.64756

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO211X0P7H7H	A0	0.00039	0.00045	0.00051
	A0	0.00010	0.00010	0.00010
	A0	-0.00009	-0.00009	-0.00008
	A0	0.00177	0.00183	0.00189
	A1	0.00039	0.00044	0.00050
	A1	0.00010	0.00010	0.00010
	A1	-0.00005	-0.00005	-0.00004
	A1	0.00157	0.00162	0.00169
	B0	0.00038	0.00044	0.00049
	B0	0.00004	0.00004	0.00004
	B0	-0.00005	-0.00005	-0.00004
	B0	0.00151	0.00157	0.00162
	C0	0.00038	0.00045	0.00051
	C0	-0.00000	-0.00000	0.00000
	C0	-0.00005	-0.00005	-0.00004
	C0	0.00144	0.00151	0.00157

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO211X0P7H7H	A0	0.00193	0.00198	0.00204
	A0	-0.00010	-0.00010	-0.00010
	A0	0.00008	0.00009	0.00009
	A0	0.00048	0.00054	0.00059
	A1	0.00179	0.00185	0.00191
	A1	-0.00010	-0.00010	-0.00010
	A1	0.00004	0.00005	0.00005
	A1	0.00052	0.00058	0.00064
	B0	0.00161	0.00166	0.00172
	B0	-0.00004	-0.00004	-0.00004
	B0	0.00008	0.00008	0.00008
	B0	0.00047	0.00052	0.00058
	C0	0.00147	0.00153	0.00160
	C0	0.00000	0.00001	0.00003
	C0	0.00008	0.00008	0.00008
	C0	0.00043	0.00048	0.00055

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X0P7H7H	(A1 * B0 * C0 * Y)	-0.00010	-0.00009	-0.00007
	(A1 * B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * Y)	0.00029	0.00029	0.00030
	(A1 * B0 * !C0 * Y)	-0.00010	-0.00009	-0.00006
	(A1 * B0 * !C0 * Y)	-0.00003	-0.00002	-0.00002
	(A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * !C0 * Y)	0.00029	0.00029	0.00029
	(A1 * !B0 * C0 * Y)	-0.00010	-0.00008	-0.00006
	(A1 * !B0 * C0 * Y)	-0.00003	-0.00002	-0.00002
	(A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * C0 * Y)	0.00029	0.00029	0.00030
	(!A1 * B0 * Y)	-0.00014	-0.00014	-0.00014
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * Y)	0.00026	0.00026	0.00026
	(!A1 * !B0 * C0 * Y)	-0.00014	-0.00014	-0.00014
	(!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * Y)	0.00025	0.00026	0.00026
	(!A1 * !B0 * !C0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * !C0 * !Y)	0.00020	0.00021	0.00021

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X0P7H7H	(A1 * B0 * C0 * Y)	0.00010	0.00010	0.00010
	(A1 * B0 * C0 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * Y)	-0.00029	-0.00029	-0.00029
	(A1 * B0 * !C0 * Y)	0.00009	0.00010	0.00010
	(A1 * B0 * !C0 * Y)	0.00002	0.00002	0.00003
	(A1 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * Y)	-0.00029	-0.00029	-0.00029
	(A1 * !B0 * C0 * Y)	0.00009	0.00010	0.00010
	(A1 * !B0 * C0 * Y)	0.00002	0.00003	0.00003
	(A1 * !B0 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * C0 * Y)	-0.00029	-0.00029	-0.00028
	(!A1 * B0 * Y)	0.00014	0.00014	0.00014
	(!A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * Y)	-0.00026	-0.00025	-0.00024
	(!A1 * !B0 * C0 * Y)	0.00014	0.00014	0.00014
	(!A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * Y)	-0.00026	-0.00025	-0.00024
	(!A1 * !B0 * !C0 * !Y)	0.00019	0.00020	0.00020
	(!A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * !Y)	-0.00021	-0.00020	-0.00018

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X0P7H7H	(A0 * B0 * C0 * Y)	-0.00010	-0.00009	-0.00007
	(A0 * B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00001
	(A0 * B0 * C0 * Y)	0.00024	0.00024	0.00025
	(A0 * B0 * !C0 * Y)	-0.00010	-0.00009	-0.00007
	(A0 * B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * Y)	0.00024	0.00024	0.00024
	(A0 * !B0 * C0 * Y)	-0.00010	-0.00008	-0.00006
	(A0 * !B0 * C0 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * C0 * Y)	0.00024	0.00024	0.00024
	(!A0 * B0 * C0 * Y)	-0.00015	-0.00015	-0.00014
	(!A0 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * C0 * Y)	0.00001	0.00001	0.00002
	(!A0 * B0 * C0 * Y)	0.00021	0.00021	0.00021
	(!A0 * B0 * !C0 * Y)	-0.00015	-0.00015	-0.00014
	(!A0 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * !C0 * Y)	0.00020	0.00021	0.00021
	(!A0 * !B0 * C0 * Y)	-0.00015	-0.00015	-0.00014
	(!A0 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * Y)	0.00020	0.00021	0.00021
	(!A0 * !B0 * !C0 * !Y)	-0.00024	-0.00023	-0.00023
	(!A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !B0 * !C0 * !Y)	0.00005	0.00005	0.00005

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X0P7H7H	(A0 * B0 * C0 * Y)	0.00010	0.00010	0.00010
	(A0 * B0 * C0 * Y)	0.00002	0.00002	0.00002
	(A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * Y)	-0.00024	-0.00024	-0.00023
	(A0 * B0 * !C0 * Y)	0.00010	0.00010	0.00010
	(A0 * B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(A0 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !C0 * Y)	-0.00024	-0.00024	-0.00024
	(A0 * !B0 * C0 * Y)	0.00010	0.00010	0.00010
	(A0 * !B0 * C0 * Y)	0.00002	0.00003	0.00003
	(A0 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * C0 * Y)	-0.00024	-0.00024	-0.00024
	(!A0 * B0 * C0 * Y)	0.00014	0.00015	0.00015
	(!A0 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * C0 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * B0 * C0 * Y)	-0.00021	-0.00020	-0.00019
	(!A0 * B0 * !C0 * Y)	0.00015	0.00015	0.00015
	(!A0 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !C0 * Y)	-0.00021	-0.00020	-0.00019
	(!A0 * !B0 * C0 * Y)	0.00015	0.00015	0.00015
	(!A0 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * Y)	-0.00021	-0.00020	-0.00019
	(!A0 * !B0 * !C0 * !Y)	0.00023	0.00023	0.00024
	(!A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !C0 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * !B0 * !C0 * !Y)	-0.00005	-0.00005	-0.00005

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X0P7H7H	(A0 * A1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * C0 * Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * Y)	0.00025	0.00026	0.00026
	(A0 * A1 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !C0 * Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * Y)	0.00025	0.00025	0.00025
	(!A1 * C0 * Y)	-0.00012	-0.00011	-0.00010
	(!A1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * C0 * Y)	0.00024	0.00024	0.00025
	(!A0 * A1 * C0 * Y)	-0.00012	-0.00011	-0.00010
	(!A0 * A1 * C0 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * C0 * Y)	0.00024	0.00024	0.00024

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X0P7H7H	(A0 * A1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * Y)	0.00005	0.00005	0.00005
	(A0 * A1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * C0 * Y)	-0.00025	-0.00025	-0.00025
	(A0 * A1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * Y)	0.00004	0.00004	0.00005
	(A0 * A1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !C0 * Y)	-0.00025	-0.00025	-0.00025
	(!A1 * C0 * Y)	0.00012	0.00012	0.00012
	(!A1 * C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * C0 * Y)	-0.00024	-0.00024	-0.00023
	(!A0 * A1 * C0 * Y)	0.00012	0.00012	0.00012
	(!A0 * A1 * C0 * Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * C0 * Y)	-0.00024	-0.00024	-0.00023

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X0P7H7H	(A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00034	0.00035	0.00035
	(A0 * A1 * !B0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * Y)	0.00034	0.00035	0.00035
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * Y)	0.00034	0.00035	0.00035

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X0P7H7H	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00004	0.00004	0.00004
	(A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * Y)	-0.00035	-0.00035	-0.00034
	(A0 * A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B0 * Y)	-0.00035	-0.00035	-0.00034
	(!A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * Y)	0.00003	0.00003	0.00003
	(!A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * Y)	-0.00035	-0.00034	-0.00034

AO211X1H7H

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

Cell Description

Y=(A0 & A1)B0C0

Truth Table

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

Footprint

Cell Name	Area
AO211X1H7H	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	Y
AO211X1H7H	0.00084	0.00085	0.00083	0.00093	0.04133

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO211X1H7H	0.00000	0.01815	0.01980

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO211X1H7H	A0->Y (RR)	0.08748	0.26541	0.70385
	A1->Y (RR)	0.08409	0.26101	0.69277
	B0->Y (RR)	0.05275	0.22476	0.64359
	C0->Y (RR)	0.05156	0.22182	0.63631

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO211X1H7H	A0->Y (FF)	0.16416	0.32123	0.68922
	A1->Y (FF)	0.15078	0.30599	0.66977
	B0->Y (FF)	0.15188	0.30861	0.68259
	C0->Y (FF)	0.14667	0.29846	0.66496

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO211X1H7H	A0	0.00043	0.00050	0.00056
	A0	0.00009	0.00009	0.00009
	A0	-0.00008	-0.00008	-0.00008
	A0	0.00180	0.00187	0.00193
	A1	0.00043	0.00049	0.00056
	A1	0.00009	0.00009	0.00009
	A1	-0.00004	-0.00004	-0.00004
	A1	0.00160	0.00166	0.00173
	B0	0.00042	0.00048	0.00054
	B0	0.00002	0.00003	0.00004
	B0	-0.00004	-0.00004	-0.00003
	B0	0.00154	0.00161	0.00166
	C0	0.00042	0.00049	0.00055
	C0	-0.00001	-0.00001	0.00000
	C0	-0.00004	-0.00004	-0.00004
	C0	0.00147	0.00154	0.00160

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO211X1H7H	A0	0.00197	0.00203	0.00209
	A0	-0.00009	-0.00009	-0.00009
	A0	0.00008	0.00008	0.00008
	A0	0.00053	0.00059	0.00065
	A1	0.00183	0.00189	0.00195
	A1	-0.00009	-0.00009	-0.00009
	A1	0.00004	0.00004	0.00004
	A1	0.00057	0.00063	0.00070
	B0	0.00164	0.00170	0.00176
	B0	-0.00004	-0.00003	-0.00002
	B0	0.00008	0.00008	0.00009
	B0	0.00052	0.00057	0.00064
	C0	0.00151	0.00156	0.00164
	C0	0.00000	0.00001	0.00004
	C0	0.00008	0.00008	0.00008
	C0	0.00048	0.00053	0.00061

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X1H7H	(A1 * B0 * C0 * Y)	-0.00010	-0.00009	-0.00007
	(A1 * B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * Y)	0.00029	0.00029	0.00030
	(A1 * B0 * !C0 * Y)	-0.00010	-0.00009	-0.00007
	(A1 * B0 * !C0 * Y)	-0.00003	-0.00002	-0.00002
	(A1 * B0 * !C0 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !C0 * Y)	0.00029	0.00029	0.00029
	(A1 * !B0 * C0 * Y)	-0.00010	-0.00008	-0.00006
	(A1 * !B0 * C0 * Y)	-0.00003	-0.00002	-0.00002
	(A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00001
	(A1 * !B0 * C0 * Y)	0.00029	0.00029	0.00029
	(!A1 * B0 * Y)	-0.00014	-0.00014	-0.00014
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * Y)	0.00026	0.00026	0.00026
	(!A1 * !B0 * C0 * Y)	-0.00014	-0.00014	-0.00013
	(!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * Y)	0.00025	0.00026	0.00026
	(!A1 * !B0 * !C0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * !C0 * !Y)	0.00020	0.00020	0.00021

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X1H7H	(A1 * B0 * C0 * Y)	0.00010	0.00010	0.00010
	(A1 * B0 * C0 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * Y)	-0.00029	-0.00029	-0.00029
	(A1 * B0 * !C0 * Y)	0.00009	0.00010	0.00010
	(A1 * B0 * !C0 * Y)	0.00002	0.00002	0.00003
	(A1 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * Y)	-0.00029	-0.00029	-0.00028
	(A1 * !B0 * C0 * Y)	0.00009	0.00010	0.00010
	(A1 * !B0 * C0 * Y)	0.00002	0.00003	0.00003
	(A1 * !B0 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * C0 * Y)	-0.00029	-0.00029	-0.00028
	(!A1 * B0 * Y)	0.00014	0.00014	0.00014
	(!A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * Y)	-0.00026	-0.00025	-0.00024
	(!A1 * !B0 * C0 * Y)	0.00014	0.00014	0.00014
	(!A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * Y)	-0.00026	-0.00025	-0.00024
	(!A1 * !B0 * !C0 * !Y)	0.00019	0.00019	0.00020
	(!A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * !Y)	-0.00021	-0.00019	-0.00018

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X1H7H	(A0 * B0 * C0 * Y)	-0.00010	-0.00009	-0.00007
	(A0 * B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00001
	(A0 * B0 * C0 * Y)	0.00024	0.00024	0.00025
	(A0 * B0 * !C0 * Y)	-0.00010	-0.00009	-0.00007
	(A0 * B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * Y)	0.00024	0.00024	0.00024
	(A0 * !B0 * C0 * Y)	-0.00010	-0.00008	-0.00007
	(A0 * !B0 * C0 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * C0 * Y)	0.00024	0.00024	0.00024
	(!A0 * B0 * C0 * Y)	-0.00015	-0.00015	-0.00014
	(!A0 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * C0 * Y)	0.00021	0.00021	0.00021
	(!A0 * B0 * !C0 * Y)	-0.00015	-0.00015	-0.00014
	(!A0 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * !C0 * Y)	0.00020	0.00021	0.00021
	(!A0 * !B0 * C0 * Y)	-0.00015	-0.00015	-0.00014
	(!A0 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * Y)	0.00021	0.00021	0.00021
	(!A0 * !B0 * !C0 * !Y)	-0.00023	-0.00023	-0.00023
	(!A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !B0 * !C0 * !Y)	0.00005	0.00005	0.00006

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X1H7H	(A0 * B0 * C0 * Y)	0.00010	0.00010	0.00010
	(A0 * B0 * C0 * Y)	0.00002	0.00002	0.00002
	(A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * Y)	-0.00024	-0.00024	-0.00023
	(A0 * B0 * !C0 * Y)	0.00010	0.00010	0.00010
	(A0 * B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(A0 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !C0 * Y)	-0.00024	-0.00024	-0.00024
	(A0 * !B0 * C0 * Y)	0.00010	0.00010	0.00010
	(A0 * !B0 * C0 * Y)	0.00002	0.00003	0.00003
	(A0 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * C0 * Y)	-0.00024	-0.00024	-0.00024
	(!A0 * B0 * C0 * Y)	0.00014	0.00015	0.00015
	(!A0 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * C0 * Y)	-0.00021	-0.00020	-0.00019
	(!A0 * B0 * !C0 * Y)	0.00014	0.00015	0.00015
	(!A0 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !C0 * Y)	-0.00021	-0.00020	-0.00019
	(!A0 * !B0 * C0 * Y)	0.00014	0.00015	0.00015
	(!A0 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * Y)	-0.00021	-0.00020	-0.00019
	(!A0 * !B0 * !C0 * !Y)	0.00023	0.00023	0.00024
	(!A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * !C0 * !Y)	-0.00005	-0.00005	-0.00005

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X1H7H	(A0 * A1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * C0 * Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * Y)	0.00025	0.00025	0.00026
	(A0 * A1 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !C0 * Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * Y)	0.00025	0.00025	0.00025
	(!A1 * C0 * Y)	-0.00012	-0.00011	-0.00010
	(!A1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * C0 * Y)	0.00024	0.00024	0.00024
	(!A0 * A1 * C0 * Y)	-0.00012	-0.00011	-0.00010
	(!A0 * A1 * C0 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * C0 * Y)	0.00024	0.00024	0.00024

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X1H7H	(A0 * A1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * Y)	0.00005	0.00005	0.00005
	(A0 * A1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * C0 * Y)	-0.00025	-0.00025	-0.00025
	(A0 * A1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * Y)	0.00004	0.00005	0.00005
	(A0 * A1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !C0 * Y)	-0.00025	-0.00025	-0.00025
	(!A1 * C0 * Y)	0.00012	0.00012	0.00012
	(!A1 * C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * C0 * Y)	-0.00024	-0.00024	-0.00023
	(!A0 * A1 * C0 * Y)	0.00012	0.00012	0.00012
	(!A0 * A1 * C0 * Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * C0 * Y)	-0.00024	-0.00024	-0.00023

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X1H7H	(A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00034	0.00034	0.00035
	(A0 * A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B0 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * Y)	0.00034	0.00034	0.00035
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * Y)	0.00034	0.00034	0.00035

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X1H7H	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00004	0.00004	0.00004
	(A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * Y)	-0.00035	-0.00034	-0.00034
	(A0 * A1 * !B0 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * !B0 * Y)	0.00002	0.00003	0.00003
	(A0 * A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B0 * Y)	-0.00035	-0.00034	-0.00034
	(!A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * Y)	0.00003	0.00003	0.00003
	(!A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * Y)	-0.00035	-0.00034	-0.00034

AO211X1P4H7H

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

Cell Description

Y=(A0 & A1)B0C0

Truth Table

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

Footprint

Cell Name	Area
AO211X1P4H7H	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	Y
AO211X1P4H7H	0.00083	0.00085	0.00083	0.00093	0.04713

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO211X1P4H7H	0.00000	0.02258	0.02522

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO211X1P4H7H	A0->Y (RR)	0.08757	0.26675	0.70742
	A1->Y (RR)	0.08428	0.26246	0.69621
	B0->Y (RR)	0.05232	0.22551	0.64703
	C0->Y (RR)	0.05114	0.22262	0.64060

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO211X1P4H7H	A0->Y (FF)	0.16623	0.32596	0.69834
	A1->Y (FF)	0.15291	0.31081	0.67903
	B0->Y (FF)	0.15411	0.31372	0.69272
	C0->Y (FF)	0.14890	0.30362	0.67526

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO211X1P4H7H	A0	0.00048	0.00054	0.00061
	A0	0.00009	0.00009	0.00009
	A0	-0.00008	-0.00007	-0.00005
	A0	0.00184	0.00191	0.00197
	A1	0.00048	0.00054	0.00061
	A1	0.00009	0.00009	0.00009
	A1	-0.00004	-0.00004	-0.00002
	A1	0.00163	0.00170	0.00177
	B0	0.00046	0.00053	0.00059
	B0	0.00003	0.00003	0.00005
	B0	-0.00004	-0.00004	-0.00001
	B0	0.00158	0.00164	0.00170
	C0	0.00046	0.00054	0.00060
	C0	-0.00002	-0.00002	0.00000
	C0	-0.00004	-0.00004	-0.00003
	C0	0.00151	0.00158	0.00165

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO211X1P4H7H	A0	0.00200	0.00206	0.00213
	A0	-0.00009	-0.00009	-0.00009
	A0	0.00007	0.00008	0.00008
	A0	0.00058	0.00064	0.00070
	A1	0.00186	0.00193	0.00199
	A1	-0.00009	-0.00009	-0.00009
	A1	0.00004	0.00004	0.00004
	A1	0.00062	0.00068	0.00075
	B0	0.00168	0.00174	0.00181
	B0	-0.00003	-0.00003	-0.00002
	B0	0.00008	0.00008	0.00008
	B0	0.00057	0.00062	0.00069
	C0	0.00155	0.00161	0.00168
	C0	0.00000	0.00002	0.00003
	C0	0.00007	0.00007	0.00008
	C0	0.00053	0.00059	0.00066

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X1P4H7H	(A1 * B0 * C0 * Y)	-0.00010	-0.00009	-0.00007
	(A1 * B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * Y)	0.00029	0.00029	0.00030
	(A1 * B0 * !C0 * Y)	-0.00010	-0.00009	-0.00006
	(A1 * B0 * !C0 * Y)	-0.00003	-0.00002	-0.00002
	(A1 * B0 * !C0 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !C0 * Y)	0.00029	0.00029	0.00029
	(A1 * !B0 * C0 * Y)	-0.00010	-0.00008	-0.00006
	(A1 * !B0 * C0 * Y)	-0.00003	-0.00002	-0.00002
	(A1 * !B0 * C0 * Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * C0 * Y)	0.00028	0.00029	0.00029
	(!A1 * B0 * Y)	-0.00014	-0.00014	-0.00014
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * Y)	0.00026	0.00026	0.00026
	(!A1 * !B0 * C0 * Y)	-0.00014	-0.00014	-0.00013
	(!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * Y)	0.00025	0.00026	0.00026
	(!A1 * !B0 * !C0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C0 * !Y)	0.00020	0.00021	0.00021

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X1P4H7H	(A1 * B0 * C0 * Y)	0.00010	0.00010	0.00010
	(A1 * B0 * C0 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * Y)	-0.00029	-0.00029	-0.00029
	(A1 * B0 * !C0 * Y)	0.00009	0.00010	0.00010
	(A1 * B0 * !C0 * Y)	0.00002	0.00002	0.00003
	(A1 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * Y)	-0.00029	-0.00029	-0.00029
	(A1 * !B0 * C0 * Y)	0.00009	0.00010	0.00010
	(A1 * !B0 * C0 * Y)	0.00002	0.00002	0.00003
	(A1 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * C0 * Y)	-0.00029	-0.00029	-0.00028
	(!A1 * B0 * Y)	0.00014	0.00014	0.00014
	(!A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * Y)	-0.00026	-0.00025	-0.00024
	(!A1 * !B0 * C0 * Y)	0.00013	0.00014	0.00014
	(!A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * Y)	-0.00026	-0.00025	-0.00024
	(!A1 * !B0 * !C0 * !Y)	0.00019	0.00019	0.00020
	(!A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * !Y)	-0.00020	-0.00019	-0.00018

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X1P4H7H	(A0 * B0 * C0 * Y)	-0.00010	-0.00009	-0.00007
	(A0 * B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * Y)	0.00024	0.00024	0.00025
	(A0 * B0 * !C0 * Y)	-0.00010	-0.00009	-0.00007
	(A0 * B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * Y)	0.00024	0.00024	0.00025
	(A0 * !B0 * C0 * Y)	-0.00010	-0.00008	-0.00006
	(A0 * !B0 * C0 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * C0 * Y)	0.00024	0.00024	0.00024
	(!A0 * B0 * C0 * Y)	-0.00015	-0.00014	-0.00014
	(!A0 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * C0 * Y)	0.00020	0.00021	0.00021
	(!A0 * B0 * !C0 * Y)	-0.00015	-0.00015	-0.00014
	(!A0 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * !C0 * Y)	0.00021	0.00021	0.00021
	(!A0 * !B0 * C0 * Y)	-0.00015	-0.00015	-0.00014
	(!A0 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * Y)	0.00021	0.00021	0.00021
	(!A0 * !B0 * !C0 * !Y)	-0.00024	-0.00023	-0.00023
	(!A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !B0 * !C0 * !Y)	0.00005	0.00005	0.00006

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X1P4H7H	(A0 * B0 * C0 * Y)	0.00010	0.00010	0.00010
	(A0 * B0 * C0 * Y)	0.00002	0.00002	0.00002
	(A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * Y)	-0.00024	-0.00024	-0.00024
	(A0 * B0 * !C0 * Y)	0.00010	0.00010	0.00010
	(A0 * B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(A0 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !C0 * Y)	-0.00024	-0.00024	-0.00024
	(A0 * !B0 * C0 * Y)	0.00010	0.00010	0.00010
	(A0 * !B0 * C0 * Y)	0.00002	0.00003	0.00003
	(A0 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * C0 * Y)	-0.00024	-0.00024	-0.00024
	(!A0 * B0 * C0 * Y)	0.00014	0.00015	0.00015
	(!A0 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * C0 * Y)	-0.00021	-0.00020	-0.00019
	(!A0 * B0 * !C0 * Y)	0.00014	0.00015	0.00015
	(!A0 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !C0 * Y)	-0.00021	-0.00020	-0.00019
	(!A0 * !B0 * C0 * Y)	0.00014	0.00015	0.00015
	(!A0 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * Y)	-0.00021	-0.00020	-0.00019
	(!A0 * !B0 * !C0 * !Y)	0.00023	0.00023	0.00024
	(!A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * !C0 * !Y)	-0.00005	-0.00005	-0.00005

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X1P4H7H	(A0 * A1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * C0 * Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * Y)	0.00025	0.00025	0.00025
	(A0 * A1 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !C0 * Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * Y)	0.00025	0.00025	0.00025
	(!A1 * C0 * Y)	-0.00012	-0.00011	-0.00010
	(!A1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * C0 * Y)	0.00024	0.00024	0.00024
	(!A0 * A1 * C0 * Y)	-0.00012	-0.00011	-0.00010
	(!A0 * A1 * C0 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * C0 * Y)	0.00024	0.00024	0.00024

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X1P4H7H	(A0 * A1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * Y)	0.00005	0.00005	0.00005
	(A0 * A1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * C0 * Y)	-0.00025	-0.00025	-0.00025
	(A0 * A1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * Y)	0.00004	0.00005	0.00005
	(A0 * A1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !C0 * Y)	-0.00025	-0.00025	-0.00025
	(!A1 * C0 * Y)	0.00012	0.00012	0.00012
	(!A1 * C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * C0 * Y)	-0.00024	-0.00024	-0.00023
	(!A0 * A1 * C0 * Y)	0.00012	0.00012	0.00013
	(!A0 * A1 * C0 * Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * C0 * Y)	-0.00024	-0.00024	-0.00024

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X1P4H7H	(A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00034	0.00034	0.00035
	(A0 * A1 * !B0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * Y)	0.00034	0.00035	0.00035
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * Y)	0.00034	0.00034	0.00035

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X1P4H7H	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00004	0.00004	0.00004
	(A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * Y)	-0.00035	-0.00034	-0.00034
	(A0 * A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B0 * Y)	-0.00035	-0.00034	-0.00034
	(!A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * Y)	0.00003	0.00003	0.00003
	(!A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * Y)	-0.00035	-0.00034	-0.00034

AO211X2H7H

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

Cell Description

Y=(A0 & A1)B0C0

Truth Table

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

Footprint

Cell Name	Area
AO211X2H7H	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	Y
AO211X2H7H	0.00081	0.00083	0.00081	0.00091	0.06066

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO211X2H7H	0.00000	0.01739	0.02586

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO211X2H7H	A0->Y (RR)	0.09726	0.28059	0.73017
	A1->Y (RR)	0.09539	0.27832	0.72379
	B0->Y (RR)	0.05833	0.23608	0.66846
	C0->Y (RR)	0.05757	0.23397	0.66297

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO211X2H7H	A0->Y (FF)	0.18427	0.34639	0.71776
	A1->Y (FF)	0.17460	0.33463	0.70158
	B0->Y (FF)	0.17497	0.33733	0.71786
	C0->Y (FF)	0.17172	0.32929	0.70439

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO211X2H7H	A0	0.00076	0.00083	0.00092
	A0	0.00008	0.00008	0.00008
	A0	-0.00007	-0.00007	-0.00006
	A0	0.00205	0.00213	0.00222
	A1	0.00075	0.00082	0.00092
	A1	0.00008	0.00008	0.00009
	A1	-0.00003	-0.00003	-0.00002
	A1	0.00189	0.00197	0.00207
	B0	0.00074	0.00082	0.00090
	B0	0.00001	0.00003	0.00003
	B0	-0.00003	-0.00003	-0.00003
	B0	0.00182	0.00190	0.00199
	C0	0.00075	0.00085	0.00094
	C0	-0.00002	-0.00002	-0.00001
	C0	-0.00003	-0.00003	-0.00002
	C0	0.00173	0.00183	0.00192

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO211X2H7H	A0	0.00231	0.00238	0.00246
	A0	-0.00008	-0.00008	-0.00008
	A0	0.00006	0.00007	0.00007
	A0	0.00095	0.00102	0.00110
	A1	0.00219	0.00227	0.00235
	A1	-0.00009	-0.00008	-0.00008
	A1	0.00002	0.00003	0.00003
	A1	0.00096	0.00103	0.00113
	B0	0.00202	0.00209	0.00217
	B0	-0.00003	-0.00002	-0.00001
	B0	0.00006	0.00007	0.00007
	B0	0.00094	0.00101	0.00109
	C0	0.00188	0.00196	0.00206
	C0	0.00001	0.00002	0.00004
	C0	0.00006	0.00006	0.00007
	C0	0.00092	0.00100	0.00110

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X2H7H	(A1 * B0 * C0 * Y)	-0.00010	-0.00009	-0.00007
	(A1 * B0 * C0 * Y)	-0.00003	-0.00002	-0.00002
	(A1 * B0 * C0 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * C0 * Y)	0.00026	0.00026	0.00026
	(A1 * B0 * !C0 * Y)	-0.00010	-0.00009	-0.00007
	(A1 * B0 * !C0 * Y)	-0.00002	-0.00002	-0.00001
	(A1 * B0 * !C0 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !C0 * Y)	0.00026	0.00026	0.00026
	(A1 * !B0 * C0 * Y)	-0.00010	-0.00008	-0.00006
	(A1 * !B0 * C0 * Y)	-0.00003	-0.00003	-0.00002
	(A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00001
	(A1 * !B0 * C0 * Y)	0.00026	0.00026	0.00026
	(!A1 * B0 * Y)	-0.00014	-0.00014	-0.00013
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * Y)	0.00023	0.00023	0.00023
	(!A1 * !B0 * C0 * Y)	-0.00014	-0.00014	-0.00013
	(!A1 * !B0 * C0 * Y)	-0.00002	-0.00001	-0.00001
	(!A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * Y)	0.00023	0.00023	0.00023
	(!A1 * !B0 * !C0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C0 * !Y)	0.00020	0.00020	0.00021

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X2H7H	(A1 * B0 * C0 * Y)	0.00009	0.00010	0.00010
	(A1 * B0 * C0 * Y)	0.00002	0.00002	0.00003
	(A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * Y)	-0.00026	-0.00026	-0.00026
	(A1 * B0 * !C0 * Y)	0.00010	0.00010	0.00010
	(A1 * B0 * !C0 * Y)	0.00001	0.00002	0.00002
	(A1 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * Y)	-0.00026	-0.00026	-0.00026
	(A1 * !B0 * C0 * Y)	0.00009	0.00010	0.00010
	(A1 * !B0 * C0 * Y)	0.00002	0.00003	0.00003
	(A1 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * C0 * Y)	-0.00026	-0.00026	-0.00025
	(!A1 * B0 * Y)	0.00013	0.00014	0.00014
	(!A1 * B0 * Y)	0.00001	0.00001	0.00002
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * Y)	-0.00023	-0.00022	-0.00021
	(!A1 * !B0 * C0 * Y)	0.00013	0.00014	0.00014
	(!A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * Y)	-0.00023	-0.00022	-0.00021
	(!A1 * !B0 * !C0 * !Y)	0.00017	0.00017	0.00017
	(!A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * !Y)	-0.00020	-0.00019	-0.00018

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X2H7H	(A0 * B0 * C0 * Y)	-0.00010	-0.00009	-0.00007
	(A0 * B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * Y)	0.00026	0.00026	0.00026
	(A0 * B0 * !C0 * Y)	-0.00011	-0.00009	-0.00007
	(A0 * B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * Y)	0.00026	0.00026	0.00026
	(A0 * !B0 * C0 * Y)	-0.00010	-0.00009	-0.00007
	(A0 * !B0 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * C0 * Y)	0.00026	0.00026	0.00026
	(!A0 * B0 * C0 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * C0 * Y)	0.00022	0.00023	0.00023
	(!A0 * B0 * !C0 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * !C0 * Y)	0.00022	0.00023	0.00023
	(!A0 * !B0 * C0 * Y)	-0.00015	-0.00015	-0.00014
	(!A0 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * Y)	0.00022	0.00023	0.00023
	(!A0 * !B0 * !C0 * !Y)	-0.00024	-0.00024	-0.00024
	(!A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !B0 * !C0 * !Y)	0.00007	0.00007	0.00007

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X2H7H	(A0 * B0 * C0 * Y)	0.00010	0.00011	0.00011
	(A0 * B0 * C0 * Y)	0.00002	0.00002	0.00002
	(A0 * B0 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * C0 * Y)	-0.00026	-0.00026	-0.00026
	(A0 * B0 * !C0 * Y)	0.00010	0.00011	0.00011
	(A0 * B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(A0 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !C0 * Y)	-0.00026	-0.00026	-0.00026
	(A0 * !B0 * C0 * Y)	0.00010	0.00010	0.00010
	(A0 * !B0 * C0 * Y)	0.00003	0.00003	0.00003
	(A0 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * C0 * Y)	-0.00026	-0.00026	-0.00025
	(!A0 * B0 * C0 * Y)	0.00015	0.00015	0.00015
	(!A0 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * C0 * Y)	-0.00023	-0.00022	-0.00021
	(!A0 * B0 * !C0 * Y)	0.00015	0.00015	0.00015
	(!A0 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !C0 * Y)	-0.00023	-0.00022	-0.00021
	(!A0 * !B0 * C0 * Y)	0.00015	0.00015	0.00015
	(!A0 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * Y)	-0.00023	-0.00022	-0.00021
	(!A0 * !B0 * !C0 * !Y)	0.00024	0.00024	0.00024
	(!A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !C0 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * !B0 * !C0 * !Y)	-0.00007	-0.00007	-0.00007

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X2H7H	(A0 * A1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * C0 * Y)	-0.00006	-0.00006	-0.00006
	(A0 * A1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * Y)	0.00025	0.00025	0.00025
	(A0 * A1 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !C0 * Y)	-0.00005	-0.00005	-0.00004
	(A0 * A1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * Y)	0.00024	0.00025	0.00025
	(!A1 * C0 * Y)	-0.00013	-0.00012	-0.00010
	(!A1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * C0 * Y)	0.00024	0.00024	0.00024
	(!A0 * A1 * C0 * Y)	-0.00013	-0.00012	-0.00010
	(!A0 * A1 * C0 * Y)	-0.00003	-0.00002	-0.00002
	(!A0 * A1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * C0 * Y)	0.00024	0.00024	0.00024

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X2H7H	(A0 * A1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * Y)	0.00006	0.00006	0.00006
	(A0 * A1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * C0 * Y)	-0.00025	-0.00025	-0.00025
	(A0 * A1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * Y)	0.00004	0.00005	0.00005
	(A0 * A1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !C0 * Y)	-0.00025	-0.00025	-0.00024
	(!A1 * C0 * Y)	0.00012	0.00013	0.00013
	(!A1 * C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * C0 * Y)	-0.00024	-0.00023	-0.00023
	(!A0 * A1 * C0 * Y)	0.00012	0.00012	0.00013
	(!A0 * A1 * C0 * Y)	0.00002	0.00002	0.00003
	(!A0 * A1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * C0 * Y)	-0.00024	-0.00023	-0.00023

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X2H7H	(A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00033	0.00033	0.00033
	(A0 * A1 * !B0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * Y)	0.00033	0.00033	0.00033
	(!A1 * B0 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * B0 * Y)	-0.00003	-0.00003	-0.00002
	(!A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * Y)	0.00033	0.00033	0.00033

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X2H7H	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00003	0.00003	0.00003
	(A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * Y)	-0.00033	-0.00033	-0.00033
	(A0 * A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B0 * Y)	-0.00033	-0.00033	-0.00033
	(!A1 * B0 * Y)	0.00000	0.00000	0.00001
	(!A1 * B0 * Y)	0.00002	0.00003	0.00003
	(!A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * Y)	-0.00033	-0.00033	-0.00033

AO211X3H7H

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

Cell Description

Y=(A0 & A1)B0C0

Truth Table

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

Footprint

Cell Name	Area
AO211X3H7H	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	Y
AO211X3H7H	0.00090	0.00093	0.00091	0.00101	0.08662

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO211X3H7H	0.00000	0.03433	0.03898

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO211X3H7H	A0->Y (RR)	0.08904	0.27481	0.72869
	A1->Y (RR)	0.08696	0.27071	0.71656
	B0->Y (RR)	0.05238	0.23149	0.66707
	C0->Y (RR)	0.05139	0.22900	0.66060

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO211X3H7H	A0->Y (FF)	0.16760	0.33344	0.71205
	A1->Y (FF)	0.15904	0.32274	0.69705
	B0->Y (FF)	0.15934	0.32569	0.71307
	C0->Y (FF)	0.15492	0.31652	0.69698

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO211X3H7H	A0	0.00092	0.00102	0.00112
	A0	0.00010	0.00010	0.00010
	A0	-0.00008	-0.00008	-0.00008
	A0	0.00239	0.00249	0.00259
	A1	0.00091	0.00100	0.00111
	A1	0.00010	0.00010	0.00010
	A1	-0.00003	-0.00003	-0.00003
	A1	0.00220	0.00229	0.00241
	B0	0.00090	0.00101	0.00110
	B0	0.00001	0.00002	0.00002
	B0	-0.00003	-0.00003	-0.00003
	B0	0.00211	0.00222	0.00231
	C0	0.00091	0.00104	0.00114
	C0	-0.00004	-0.00004	-0.00003
	C0	-0.00003	-0.00003	-0.00001
	C0	0.00200	0.00212	0.00222

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO211X3H7H	A0	0.00266	0.00275	0.00284
	A0	-0.00010	-0.00010	-0.00010
	A0	0.00008	0.00008	0.00008
	A0	0.00112	0.00120	0.00130
	A1	0.00252	0.00261	0.00271
	A1	-0.00010	-0.00010	-0.00010
	A1	0.00003	0.00003	0.00003
	A1	0.00113	0.00122	0.00132
	B0	0.00232	0.00240	0.00251
	B0	-0.00002	-0.00002	-0.00001
	B0	0.00008	0.00008	0.00008
	B0	0.00111	0.00119	0.00129
	C0	0.00214	0.00223	0.00235
	C0	0.00004	0.00004	0.00006
	C0	0.00008	0.00008	0.00008
	C0	0.00108	0.00118	0.00130

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X3H7H	(A1 * B0 * C0 * Y)	-0.00012	-0.00011	-0.00008
	(A1 * B0 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * C0 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * C0 * Y)	0.00028	0.00028	0.00028
	(A1 * B0 * !C0 * Y)	-0.00012	-0.00011	-0.00008
	(A1 * B0 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * !C0 * Y)	0.00028	0.00028	0.00029
	(A1 * !B0 * C0 * Y)	-0.00012	-0.00010	-0.00008
	(A1 * !B0 * C0 * Y)	-0.00004	-0.00003	-0.00003
	(A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00001
	(A1 * !B0 * C0 * Y)	0.00028	0.00028	0.00028
	(!A1 * B0 * Y)	-0.00017	-0.00016	-0.00016
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * Y)	0.00024	0.00024	0.00025
	(!A1 * !B0 * C0 * Y)	-0.00017	-0.00016	-0.00016
	(!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * C0 * Y)	0.00024	0.00024	0.00025
	(!A1 * !B0 * !C0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !C0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !C0 * !Y)	0.00022	0.00022	0.00022

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X3H7H	(A1 * B0 * C0 * Y)	0.00012	0.00012	0.00012
	(A1 * B0 * C0 * Y)	0.00003	0.00003	0.00003
	(A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * Y)	-0.00028	-0.00028	-0.00028
	(A1 * B0 * !C0 * Y)	0.00012	0.00012	0.00012
	(A1 * B0 * !C0 * Y)	0.00003	0.00003	0.00003
	(A1 * B0 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !C0 * Y)	-0.00028	-0.00028	-0.00028
	(A1 * !B0 * C0 * Y)	0.00011	0.00012	0.00012
	(A1 * !B0 * C0 * Y)	0.00003	0.00003	0.00004
	(A1 * !B0 * C0 * Y)	-0.00001	-0.00000	-0.00000
	(A1 * !B0 * C0 * Y)	-0.00028	-0.00028	-0.00027
	(!A1 * B0 * Y)	0.00016	0.00016	0.00017
	(!A1 * B0 * Y)	0.00001	0.00001	0.00002
	(!A1 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * Y)	-0.00025	-0.00024	-0.00022
	(!A1 * !B0 * C0 * Y)	0.00016	0.00017	0.00017
	(!A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * C0 * Y)	-0.00024	-0.00024	-0.00022
	(!A1 * !B0 * !C0 * !Y)	0.00019	0.00020	0.00020
	(!A1 * !B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !C0 * !Y)	-0.00022	-0.00021	-0.00020

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X3H7H	(A0 * B0 * C0 * Y)	-0.00013	-0.00011	-0.00008
	(A0 * B0 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00001
	(A0 * B0 * C0 * Y)	0.00028	0.00028	0.00028
	(A0 * B0 * !C0 * Y)	-0.00013	-0.00011	-0.00008
	(A0 * B0 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * Y)	0.00028	0.00028	0.00028
	(A0 * !B0 * C0 * Y)	-0.00012	-0.00010	-0.00007
	(A0 * !B0 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * !B0 * C0 * Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * C0 * Y)	0.00028	0.00028	0.00028
	(!A0 * B0 * C0 * Y)	-0.00018	-0.00018	-0.00017
	(!A0 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * B0 * C0 * Y)	0.00024	0.00025	0.00025
	(!A0 * B0 * !C0 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * B0 * !C0 * Y)	0.00024	0.00024	0.00025
	(!A0 * !B0 * C0 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * C0 * Y)	0.00024	0.00025	0.00025
	(!A0 * !B0 * !C0 * !Y)	-0.00028	-0.00028	-0.00027
	(!A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * !Y)	0.00003	0.00003	0.00004
	(!A0 * !B0 * !C0 * !Y)	0.00007	0.00007	0.00007

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X3H7H	(A0 * B0 * C0 * Y)	0.00013	0.00013	0.00013
	(A0 * B0 * C0 * Y)	0.00003	0.00003	0.00003
	(A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * Y)	-0.00028	-0.00028	-0.00028
	(A0 * B0 * !C0 * Y)	0.00013	0.00013	0.00013
	(A0 * B0 * !C0 * Y)	0.00003	0.00003	0.00003
	(A0 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * !C0 * Y)	-0.00028	-0.00028	-0.00028
	(A0 * !B0 * C0 * Y)	0.00012	0.00012	0.00013
	(A0 * !B0 * C0 * Y)	0.00003	0.00003	0.00003
	(A0 * !B0 * C0 * Y)	-0.00001	-0.00000	-0.00000
	(A0 * !B0 * C0 * Y)	-0.00028	-0.00028	-0.00028
	(!A0 * B0 * C0 * Y)	0.00018	0.00018	0.00018
	(!A0 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * B0 * C0 * Y)	-0.00025	-0.00024	-0.00022
	(!A0 * B0 * !C0 * Y)	0.00018	0.00018	0.00018
	(!A0 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * B0 * !C0 * Y)	-0.00025	-0.00024	-0.00023
	(!A0 * !B0 * C0 * Y)	0.00018	0.00018	0.00018
	(!A0 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * C0 * Y)	-0.00025	-0.00024	-0.00022
	(!A0 * !B0 * !C0 * !Y)	0.00028	0.00028	0.00028
	(!A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !C0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !B0 * !C0 * !Y)	-0.00007	-0.00007	-0.00007

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X3H7H	(A0 * A1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * C0 * Y)	-0.00007	-0.00007	-0.00007
	(A0 * A1 * C0 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * C0 * Y)	0.00027	0.00027	0.00027
	(A0 * A1 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !C0 * Y)	-0.00006	-0.00006	-0.00005
	(A0 * A1 * !C0 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !C0 * Y)	0.00026	0.00027	0.00027
	(!A1 * C0 * Y)	-0.00015	-0.00014	-0.00012
	(!A1 * C0 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * C0 * Y)	0.00026	0.00026	0.00026
	(!A0 * A1 * C0 * Y)	-0.00015	-0.00014	-0.00012
	(!A0 * A1 * C0 * Y)	-0.00003	-0.00002	-0.00002
	(!A0 * A1 * C0 * Y)	0.00000	0.00001	0.00000
	(!A0 * A1 * C0 * Y)	0.00026	0.00026	0.00026

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X3H7H	(A0 * A1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * Y)	0.00007	0.00007	0.00007
	(A0 * A1 * C0 * Y)	-0.00000	-0.00001	-0.00000
	(A0 * A1 * C0 * Y)	-0.00027	-0.00027	-0.00026
	(A0 * A1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * Y)	0.00005	0.00006	0.00006
	(A0 * A1 * !C0 * Y)	-0.00000	-0.00001	-0.00000
	(A0 * A1 * !C0 * Y)	-0.00027	-0.00026	-0.00026
	(!A1 * C0 * Y)	0.00015	0.00015	0.00016
	(!A1 * C0 * Y)	0.00001	0.00002	0.00002
	(!A1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * C0 * Y)	-0.00026	-0.00026	-0.00025
	(!A0 * A1 * C0 * Y)	0.00015	0.00015	0.00015
	(!A0 * A1 * C0 * Y)	0.00002	0.00002	0.00003
	(!A0 * A1 * C0 * Y)	-0.00000	-0.00001	-0.00000
	(!A0 * A1 * C0 * Y)	-0.00026	-0.00025	-0.00025

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X3H7H	(A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * Y)	-0.00004	-0.00004	-0.00004
	(A1 * B0 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * Y)	0.00036	0.00036	0.00036
	(A0 * A1 * !B0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * Y)	-0.00004	-0.00003	-0.00003
	(A0 * A1 * !B0 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B0 * Y)	0.00036	0.00036	0.00036
	(!A1 * B0 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * B0 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * B0 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * Y)	0.00036	0.00036	0.00036

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X3H7H	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00004	0.00004	0.00004
	(A1 * B0 * Y)	-0.00000	-0.00001	-0.00000
	(A1 * B0 * Y)	-0.00036	-0.00036	-0.00036
	(A0 * A1 * !B0 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * !B0 * Y)	0.00003	0.00003	0.00004
	(A0 * A1 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B0 * Y)	-0.00036	-0.00036	-0.00036
	(!A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * Y)	0.00004	0.00004	0.00005
	(!A1 * B0 * Y)	-0.00000	-0.00001	-0.00000
	(!A1 * B0 * Y)	-0.00036	-0.00036	-0.00036

AO211X4H7H

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

Cell Description

Y=(A0 & A1)B0C0

Truth Table

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

Footprint

Cell Name	Area
AO211X4H7H	3.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	Y
AO211X4H7H	0.00101	0.00104	0.00102	0.00113	0.10950

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO211X4H7H	0.00000	0.06005	0.06316

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO211X4H7H	A0->Y (RR)	0.08867	0.27605	0.73330
	A1->Y (RR)	0.08647	0.27128	0.71991
	B0->Y (RR)	0.05185	0.23236	0.67100
	C0->Y (RR)	0.05073	0.22972	0.66436

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO211X4H7H	A0->Y (FF)	0.16654	0.33431	0.71671
	A1->Y (FF)	0.15798	0.32376	0.70174
	B0->Y (FF)	0.15807	0.32654	0.71803
	C0->Y (FF)	0.15308	0.31689	0.70123

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO211X4H7H	A0	0.00119	0.00131	0.00143
	A0	0.00011	0.00011	0.00011
	A0	-0.00009	-0.00009	-0.00009
	A0	0.00285	0.00297	0.00309
	A1	0.00117	0.00129	0.00143
	A1	0.00011	0.00011	0.00011
	A1	-0.00003	-0.00003	-0.00003
	A1	0.00261	0.00273	0.00287
	B0	0.00116	0.00130	0.00142
	B0	0.00002	0.00002	0.00002
	B0	-0.00003	-0.00003	-0.00002
	B0	0.00252	0.00265	0.00277
	C0	0.00118	0.00133	0.00146
	C0	-0.00005	-0.00005	-0.00005
	C0	-0.00003	-0.00003	-0.00003
	C0	0.00238	0.00253	0.00265

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO211X4H7H	A0	0.00316	0.00327	0.00339
	A0	-0.00011	-0.00011	-0.00011
	A0	0.00009	0.00009	0.00009
	A0	0.00142	0.00152	0.00164
	A1	0.00300	0.00312	0.00324
	A1	-0.00011	-0.00011	-0.00011
	A1	0.00003	0.00003	0.00003
	A1	0.00143	0.00155	0.00168
	B0	0.00276	0.00287	0.00299
	B0	-0.00002	-0.00002	-0.00002
	B0	0.00009	0.00009	0.00009
	B0	0.00140	0.00151	0.00164
	C0	0.00254	0.00266	0.00280
	C0	0.00005	0.00005	0.00006
	C0	0.00009	0.00009	0.00009
	C0	0.00138	0.00149	0.00164

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X4H7H	(A1 * B0 * C0 * Y)	-0.00014	-0.00013	-0.00010
	(A1 * B0 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * C0 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * C0 * Y)	0.00030	0.00031	0.00031
	(A1 * B0 * !C0 * Y)	-0.00015	-0.00013	-0.00010
	(A1 * B0 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * !C0 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !C0 * Y)	0.00030	0.00031	0.00031
	(A1 * !B0 * C0 * Y)	-0.00014	-0.00012	-0.00010
	(A1 * !B0 * C0 * Y)	-0.00004	-0.00003	-0.00003
	(A1 * !B0 * C0 * Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * C0 * Y)	0.00030	0.00030	0.00031
	(!A1 * B0 * Y)	-0.00020	-0.00019	-0.00019
	(!A1 * B0 * Y)	-0.00002	-0.00001	-0.00001
	(!A1 * B0 * Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * Y)	0.00026	0.00026	0.00027
	(!A1 * !B0 * C0 * Y)	-0.00020	-0.00019	-0.00019
	(!A1 * !B0 * C0 * Y)	-0.00002	-0.00001	-0.00001
	(!A1 * !B0 * C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * C0 * Y)	0.00026	0.00026	0.00027
	(!A1 * !B0 * !C0 * !Y)	-0.00022	-0.00022	-0.00022
	(!A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !C0 * !Y)	0.00024	0.00024	0.00025

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X4H7H	(A1 * B0 * C0 * Y)	0.00014	0.00014	0.00015
	(A1 * B0 * C0 * Y)	0.00003	0.00003	0.00003
	(A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * C0 * Y)	-0.00031	-0.00030	-0.00030
	(A1 * B0 * !C0 * Y)	0.00014	0.00015	0.00015
	(A1 * B0 * !C0 * Y)	0.00003	0.00003	0.00003
	(A1 * B0 * !C0 * Y)	-0.00001	-0.00001	0.00000
	(A1 * B0 * !C0 * Y)	-0.00031	-0.00030	-0.00030
	(A1 * !B0 * C0 * Y)	0.00013	0.00014	0.00014
	(A1 * !B0 * C0 * Y)	0.00003	0.00003	0.00004
	(A1 * !B0 * C0 * Y)	-0.00001	-0.00001	0.00000
	(A1 * !B0 * C0 * Y)	-0.00030	-0.00030	-0.00030
	(!A1 * B0 * Y)	0.00019	0.00020	0.00020
	(!A1 * B0 * Y)	0.00001	0.00001	0.00002
	(!A1 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * Y)	-0.00027	-0.00026	-0.00024
	(!A1 * !B0 * C0 * Y)	0.00019	0.00019	0.00020
	(!A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * C0 * Y)	-0.00027	-0.00026	-0.00024
	(!A1 * !B0 * !C0 * !Y)	0.00022	0.00023	0.00023
	(!A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !C0 * !Y)	-0.00024	-0.00023	-0.00021

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X4H7H	(A0 * B0 * C0 * Y)	-0.00015	-0.00013	-0.00010
	(A0 * B0 * C0 * Y)	-0.00004	-0.00003	-0.00003
	(A0 * B0 * C0 * Y)	0.00000	0.00001	0.00001
	(A0 * B0 * C0 * Y)	0.00030	0.00030	0.00030
	(A0 * B0 * !C0 * Y)	-0.00015	-0.00013	-0.00010
	(A0 * B0 * !C0 * Y)	-0.00004	-0.00003	-0.00003
	(A0 * B0 * !C0 * Y)	0.00000	0.00001	0.00001
	(A0 * B0 * !C0 * Y)	0.00030	0.00030	0.00030
	(A0 * !B0 * C0 * Y)	-0.00015	-0.00013	-0.00009
	(A0 * !B0 * C0 * Y)	-0.00004	-0.00004	-0.00004
	(A0 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * C0 * Y)	0.00030	0.00030	0.00030
	(!A0 * B0 * C0 * Y)	-0.00022	-0.00021	-0.00021
	(!A0 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * B0 * C0 * Y)	0.00025	0.00026	0.00026
	(!A0 * B0 * !C0 * Y)	-0.00022	-0.00021	-0.00021
	(!A0 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * B0 * !C0 * Y)	0.00025	0.00026	0.00026
	(!A0 * !B0 * C0 * Y)	-0.00022	-0.00021	-0.00021
	(!A0 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * C0 * Y)	0.00025	0.00026	0.00026
	(!A0 * !B0 * !C0 * !Y)	-0.00032	-0.00032	-0.00032
	(!A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * !Y)	0.00003	0.00004	0.00004
	(!A0 * !B0 * !C0 * !Y)	0.00006	0.00006	0.00007

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X4H7H	(A0 * B0 * C0 * Y)	0.00015	0.00015	0.00015
	(A0 * B0 * C0 * Y)	0.00003	0.00003	0.00004
	(A0 * B0 * C0 * Y)	-0.00001	-0.00001	0.00000
	(A0 * B0 * C0 * Y)	-0.00030	-0.00030	-0.00030
	(A0 * B0 * !C0 * Y)	0.00015	0.00015	0.00015
	(A0 * B0 * !C0 * Y)	0.00003	0.00003	0.00004
	(A0 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * !C0 * Y)	-0.00030	-0.00030	-0.00029
	(A0 * !B0 * C0 * Y)	0.00015	0.00015	0.00015
	(A0 * !B0 * C0 * Y)	0.00004	0.00004	0.00004
	(A0 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * C0 * Y)	-0.00030	-0.00030	-0.00029
	(!A0 * B0 * C0 * Y)	0.00021	0.00021	0.00022
	(!A0 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * B0 * C0 * Y)	-0.00026	-0.00025	-0.00023
	(!A0 * B0 * !C0 * Y)	0.00021	0.00021	0.00022
	(!A0 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * B0 * !C0 * Y)	-0.00026	-0.00025	-0.00023
	(!A0 * !B0 * C0 * Y)	0.00021	0.00021	0.00022
	(!A0 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * C0 * Y)	-0.00026	-0.00025	-0.00023
	(!A0 * !B0 * !C0 * !Y)	0.00032	0.00032	0.00032
	(!A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !C0 * !Y)	-0.00004	-0.00004	-0.00003
	(!A0 * !B0 * !C0 * !Y)	-0.00006	-0.00006	-0.00006

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X4H7H	(A0 * A1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * C0 * Y)	-0.00009	-0.00009	-0.00009
	(A0 * A1 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * C0 * Y)	0.00029	0.00029	0.00029
	(A0 * A1 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !C0 * Y)	-0.00007	-0.00007	-0.00006
	(A0 * A1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !C0 * Y)	0.00028	0.00029	0.00029
	(!A1 * C0 * Y)	-0.00017	-0.00016	-0.00014
	(!A1 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * C0 * Y)	0.00027	0.00028	0.00028
	(!A0 * A1 * C0 * Y)	-0.00017	-0.00016	-0.00014
	(!A0 * A1 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * C0 * Y)	0.00027	0.00028	0.00028

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X4H7H	(A0 * A1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * Y)	0.00009	0.00009	0.00009
	(A0 * A1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * C0 * Y)	-0.00029	-0.00029	-0.00029
	(A0 * A1 * !C0 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * !C0 * Y)	0.00006	0.00007	0.00007
	(A0 * A1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !C0 * Y)	-0.00029	-0.00029	-0.00028
	(!A1 * C0 * Y)	0.00017	0.00017	0.00017
	(!A1 * C0 * Y)	0.00003	0.00003	0.00003
	(!A1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * C0 * Y)	-0.00027	-0.00027	-0.00027
	(!A0 * A1 * C0 * Y)	0.00017	0.00017	0.00017
	(!A0 * A1 * C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * C0 * Y)	-0.00027	-0.00027	-0.00027

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X4H7H	(A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * Y)	-0.00005	-0.00005	-0.00005
	(A1 * B0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * Y)	0.00040	0.00040	0.00040
	(A0 * A1 * !B0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * Y)	0.00040	0.00040	0.00040
	(!A1 * B0 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * B0 * Y)	-0.00005	-0.00005	-0.00005
	(!A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * Y)	0.00039	0.00040	0.00040

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X4H7H	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00005	0.00005	0.00005
	(A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * Y)	-0.00040	-0.00040	-0.00039
	(A0 * A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * Y)	0.00004	0.00004	0.00005
	(A0 * A1 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B0 * Y)	-0.00040	-0.00040	-0.00039
	(!A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * Y)	0.00005	0.00005	0.00006
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * Y)	-0.00040	-0.00040	-0.00039

AO211X6H7H

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

Cell Description

Y=(A0 & A1)B0C0

Truth Table

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

Footprint

Cell Name	Area
AO211X6H7H	3.64000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	Y
AO211X6H7H	0.00112	0.00119	0.00113	0.00129	0.16392

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO211X6H7H	0.00000	0.08739	0.09625

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO211X6H7H	A0->Y (RR)	0.09662	0.28793	0.75365
	A1->Y (RR)	0.09427	0.28324	0.74046
	B0->Y (RR)	0.05560	0.23988	0.68762
	C0->Y (RR)	0.05421	0.23705	0.68064

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO211X6H7H	A0->Y (FF)	0.18274	0.35715	0.74963
	A1->Y (FF)	0.17408	0.34671	0.73576
	B0->Y (FF)	0.17386	0.34867	0.75050
	C0->Y (FF)	0.16777	0.33792	0.73388

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO211X6H7H	A0	0.00187	0.00203	0.00222
	A0	0.00011	0.00011	0.00011
	A0	-0.00009	-0.00009	-0.00006
	A0	0.00373	0.00390	0.00409
	A1	0.00186	0.00202	0.00222
	A1	0.00011	0.00011	0.00011
	A1	-0.00002	-0.00001	0.00004
	A1	0.00348	0.00365	0.00385
	B0	0.00185	0.00204	0.00221
	B0	0.00000	0.00000	0.00001
	B0	-0.00002	-0.00001	-0.00001
	B0	0.00335	0.00354	0.00371
	C0	0.00187	0.00208	0.00227
	C0	-0.00009	-0.00009	-0.00008
	C0	-0.00002	-0.00001	0.00000
	C0	0.00319	0.00340	0.00358

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO211X6H7H	A0	0.00414	0.00428	0.00445
	A0	-0.00011	-0.00011	-0.00011
	A0	0.00008	0.00009	0.00009
	A0	0.00216	0.00230	0.00247
	A1	0.00395	0.00410	0.00428
	A1	-0.00011	-0.00011	-0.00011
	A1	0.00001	0.00001	0.00002
	A1	0.00216	0.00231	0.00250
	B0	0.00362	0.00376	0.00394
	B0	0.00000	0.00000	0.00000
	B0	0.00008	0.00009	0.00009
	B0	0.00210	0.00225	0.00243
	C0	0.00333	0.00349	0.00369
	C0	0.00009	0.00009	0.00009
	C0	0.00008	0.00009	0.00009
	C0	0.00205	0.00221	0.00241

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X6H7H	(A1 * B0 * C0 * Y)	-0.00018	-0.00016	-0.00012
	(A1 * B0 * C0 * Y)	-0.00004	-0.00004	-0.00004
	(A1 * B0 * C0 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * C0 * Y)	0.00031	0.00032	0.00032
	(A1 * B0 * !C0 * Y)	-0.00018	-0.00015	-0.00012
	(A1 * B0 * !C0 * Y)	-0.00005	-0.00004	-0.00004
	(A1 * B0 * !C0 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !C0 * Y)	0.00031	0.00032	0.00032
	(A1 * !B0 * C0 * Y)	-0.00017	-0.00015	-0.00011
	(A1 * !B0 * C0 * Y)	-0.00004	-0.00004	-0.00003
	(A1 * !B0 * C0 * Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * C0 * Y)	0.00031	0.00031	0.00032
	(!A1 * B0 * Y)	-0.00025	-0.00025	-0.00024
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * Y)	0.00002	0.00002	0.00003
	(!A1 * B0 * Y)	0.00027	0.00027	0.00027
	(!A1 * !B0 * C0 * Y)	-0.00025	-0.00025	-0.00024
	(!A1 * !B0 * C0 * Y)	-0.00002	-0.00001	-0.00001
	(!A1 * !B0 * C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * C0 * Y)	0.00026	0.00027	0.00027
	(!A1 * !B0 * !C0 * !Y)	-0.00028	-0.00028	-0.00027
	(!A1 * !B0 * !C0 * !Y)	-0.00002	-0.00001	-0.00000
	(!A1 * !B0 * !C0 * !Y)	0.00002	0.00002	0.00003
	(!A1 * !B0 * !C0 * !Y)	0.00024	0.00024	0.00025

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X6H7H	(A1 * B0 * C0 * Y)	0.00018	0.00018	0.00018
	(A1 * B0 * C0 * Y)	0.00004	0.00004	0.00004
	(A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * C0 * Y)	-0.00031	-0.00031	-0.00031
	(A1 * B0 * !C0 * Y)	0.00017	0.00018	0.00018
	(A1 * B0 * !C0 * Y)	0.00004	0.00004	0.00005
	(A1 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !C0 * Y)	-0.00031	-0.00031	-0.00031
	(A1 * !B0 * C0 * Y)	0.00017	0.00017	0.00018
	(A1 * !B0 * C0 * Y)	0.00003	0.00004	0.00004
	(A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * C0 * Y)	-0.00031	-0.00031	-0.00031
	(!A1 * B0 * Y)	0.00024	0.00025	0.00025
	(!A1 * B0 * Y)	0.00001	0.00002	0.00002
	(!A1 * B0 * Y)	-0.00003	-0.00002	-0.00002
	(!A1 * B0 * Y)	-0.00027	-0.00026	-0.00024
	(!A1 * !B0 * C0 * Y)	0.00025	0.00025	0.00025
	(!A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * C0 * Y)	-0.00027	-0.00026	-0.00024
	(!A1 * !B0 * !C0 * !Y)	0.00028	0.00028	0.00029
	(!A1 * !B0 * !C0 * !Y)	0.00000	0.00001	0.00002
	(!A1 * !B0 * !C0 * !Y)	-0.00003	-0.00002	-0.00002
	(!A1 * !B0 * !C0 * !Y)	-0.00024	-0.00023	-0.00021

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X6H7H	(A0 * B0 * C0 * Y)	-0.00019	-0.00016	-0.00013
	(A0 * B0 * C0 * Y)	-0.00004	-0.00004	-0.00004
	(A0 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * C0 * Y)	0.00032	0.00032	0.00033
	(A0 * B0 * !C0 * Y)	-0.00019	-0.00016	-0.00013
	(A0 * B0 * !C0 * Y)	-0.00004	-0.00004	-0.00004
	(A0 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * Y)	0.00032	0.00033	0.00033
	(A0 * !B0 * C0 * Y)	-0.00018	-0.00015	-0.00011
	(A0 * !B0 * C0 * Y)	-0.00005	-0.00004	-0.00003
	(A0 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * C0 * Y)	0.00032	0.00032	0.00032
	(!A0 * B0 * C0 * Y)	-0.00027	-0.00026	-0.00026
	(!A0 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * B0 * C0 * Y)	0.00027	0.00027	0.00028
	(!A0 * B0 * !C0 * Y)	-0.00026	-0.00026	-0.00026
	(!A0 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * B0 * !C0 * Y)	0.00027	0.00027	0.00028
	(!A0 * !B0 * C0 * Y)	-0.00026	-0.00026	-0.00026
	(!A0 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * C0 * Y)	0.00027	0.00027	0.00028
	(!A0 * !B0 * !C0 * !Y)	-0.00038	-0.00038	-0.00037
	(!A0 * !B0 * !C0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * !Y)	0.00004	0.00005	0.00006
	(!A0 * !B0 * !C0 * !Y)	0.00006	0.00006	0.00007

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X6H7H	(A0 * B0 * C0 * Y)	0.00018	0.00019	0.00019
	(A0 * B0 * C0 * Y)	0.00004	0.00004	0.00004
	(A0 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * C0 * Y)	-0.00032	-0.00032	-0.00032
	(A0 * B0 * !C0 * Y)	0.00019	0.00019	0.00019
	(A0 * B0 * !C0 * Y)	0.00004	0.00004	0.00004
	(A0 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * Y)	-0.00032	-0.00032	-0.00032
	(A0 * !B0 * C0 * Y)	0.00018	0.00018	0.00018
	(A0 * !B0 * C0 * Y)	0.00003	0.00004	0.00005
	(A0 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * C0 * Y)	-0.00032	-0.00032	-0.00032
	(!A0 * B0 * C0 * Y)	0.00026	0.00026	0.00027
	(!A0 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * B0 * C0 * Y)	-0.00028	-0.00026	-0.00025
	(!A0 * B0 * !C0 * Y)	0.00026	0.00026	0.00027
	(!A0 * B0 * !C0 * Y)	0.00001	0.00002	0.00002
	(!A0 * B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * B0 * !C0 * Y)	-0.00028	-0.00026	-0.00025
	(!A0 * !B0 * C0 * Y)	0.00026	0.00026	0.00027
	(!A0 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * C0 * Y)	-0.00028	-0.00026	-0.00025
	(!A0 * !B0 * !C0 * !Y)	0.00037	0.00038	0.00038
	(!A0 * !B0 * !C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !B0 * !C0 * !Y)	-0.00005	-0.00004	-0.00004
	(!A0 * !B0 * !C0 * !Y)	-0.00007	-0.00006	-0.00006

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X6H7H	(A0 * A1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * C0 * Y)	-0.00010	-0.00010	-0.00010
	(A0 * A1 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * C0 * Y)	0.00032	0.00032	0.00032
	(A0 * A1 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !C0 * Y)	-0.00008	-0.00008	-0.00007
	(A0 * A1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !C0 * Y)	0.00031	0.00032	0.00032
	(!A1 * C0 * Y)	-0.00021	-0.00019	-0.00016
	(!A1 * C0 * Y)	-0.00004	-0.00003	-0.00002
	(!A1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * C0 * Y)	0.00030	0.00030	0.00031
	(!A0 * A1 * C0 * Y)	-0.00021	-0.00019	-0.00016
	(!A0 * A1 * C0 * Y)	-0.00004	-0.00003	-0.00002
	(!A0 * A1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * C0 * Y)	0.00030	0.00030	0.00031

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X6H7H	(A0 * A1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * Y)	0.00010	0.00010	0.00010
	(A0 * A1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * C0 * Y)	-0.00032	-0.00032	-0.00032
	(A0 * A1 * !C0 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * !C0 * Y)	0.00007	0.00008	0.00008
	(A0 * A1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !C0 * Y)	-0.00032	-0.00032	-0.00031
	(!A1 * C0 * Y)	0.00021	0.00021	0.00022
	(!A1 * C0 * Y)	0.00002	0.00003	0.00004
	(!A1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * C0 * Y)	-0.00030	-0.00030	-0.00029
	(!A0 * A1 * C0 * Y)	0.00021	0.00021	0.00022
	(!A0 * A1 * C0 * Y)	0.00002	0.00003	0.00004
	(!A0 * A1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * C0 * Y)	-0.00030	-0.00030	-0.00029

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X6H7H	(A1 * B0 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * Y)	-0.00005	-0.00005	-0.00005
	(A1 * B0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * Y)	0.00046	0.00046	0.00046
	(A0 * A1 * !B0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * Y)	-0.00005	-0.00005	-0.00004
	(A0 * A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * Y)	0.00046	0.00046	0.00046
	(!A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * Y)	-0.00005	-0.00005	-0.00005
	(!A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * Y)	0.00046	0.00046	0.00047

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

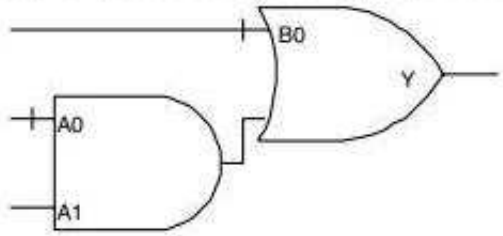
Cell Name	When	Power(pJ)		
		min	avg	max
AO211X6H7H	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00005	0.00006	0.00006
	(A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * Y)	-0.00046	-0.00046	-0.00046
	(A0 * A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * Y)	0.00004	0.00005	0.00007
	(A0 * A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * Y)	-0.00046	-0.00046	-0.00046
	(!A1 * B0 * Y)	0.00000	0.00000	0.00001
	(!A1 * B0 * Y)	0.00005	0.00005	0.00005
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * Y)	-0.00046	-0.00046	-0.00046

AO21X0P5H7H

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

Cell Description

The AO21 cell provides the logical OR of one AND group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

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

Footprint

Cell Name	Area
AO21X0P5H7H	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	Y
AO21X0P5H7H	0.00076	0.00081	0.00092	0.03037

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO21X0P5H7H	0.00000	0.01377	0.01533

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO21X0P5H7H	A0->Y (RR)	0.07701	0.24814	0.66969
	A1->Y (RR)	0.07433	0.24307	0.65407
	B0->Y (RR)	0.04975	0.21435	0.61581

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO21X0P5H7H	A0->Y (FF)	0.09912	0.24391	0.59070
	A1->Y (FF)	0.09226	0.23367	0.57281
	B0->Y (FF)	0.09240	0.22961	0.56110

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO21X0P5H7H	A0	0.00037	0.00042	0.00047
	A0	0.00006	0.00006	0.00006
	A0	-0.00006	-0.00006	-0.00006
	A0	0.00146	0.00152	0.00157
	A1	0.00036	0.00042	0.00047
	A1	0.00006	0.00006	0.00006
	A1	-0.00003	-0.00003	-0.00002
	A1	0.00126	0.00131	0.00137
	B0	0.00033	0.00040	0.00046
	B0	-0.00000	-0.00000	0.00000
	B0	-0.00002	-0.00002	-0.00002
	B0	0.00121	0.00128	0.00133

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO21X0P5H7H	A0	0.00155	0.00160	0.00164
	A0	-0.00006	-0.00006	-0.00006
	A0	0.00006	0.00006	0.00006
	A0	0.00042	0.00047	0.00051
	A1	0.00140	0.00146	0.00151
	A1	-0.00006	-0.00006	-0.00006
	A1	0.00002	0.00003	0.00003
	A1	0.00045	0.00051	0.00056
	B0	0.00126	0.00131	0.00137
	B0	-0.00000	0.00000	0.00000
	B0	0.00006	0.00006	0.00006
	B0	0.00040	0.00046	0.00052

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X0P5H7H	(A1 * B0 * Y)	-0.00011	-0.00010	-0.00007
	(A1 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00025	0.00025	0.00026
	(!A1 * B0 * Y)	-0.00016	-0.00016	-0.00016
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * Y)	0.00022	0.00022	0.00022
	(!A1 * !B0 * !Y)	-0.00016	-0.00016	-0.00016
	(!A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * !Y)	0.00021	0.00022	0.00022

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X0P5H7H	(A1 * B0 * Y)	0.00011	0.00011	0.00011
	(A1 * B0 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * Y)	-0.00025	-0.00025	-0.00025
	(!A1 * B0 * Y)	0.00016	0.00016	0.00016
	(!A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * Y)	-0.00022	-0.00021	-0.00020
	(!A1 * !B0 * !Y)	0.00016	0.00016	0.00017
	(!A1 * !B0 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A1 * !B0 * !Y)	-0.00022	-0.00021	-0.00019

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X0P5H7H	(A0 * B0 * Y)	-0.00010	-0.00009	-0.00007
	(A0 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * Y)	0.00023	0.00023	0.00024
	(!A0 * B0 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * Y)	0.00020	0.00020	0.00020
	(!A0 * !B0 * !Y)	-0.00022	-0.00022	-0.00022
	(!A0 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !B0 * !Y)	0.00005	0.00006	0.00006

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X0P5H7H	(A0 * B0 * Y)	0.00010	0.00010	0.00010
	(A0 * B0 * Y)	0.00002	0.00002	0.00002
	(A0 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * Y)	-0.00023	-0.00023	-0.00023
	(!A0 * B0 * Y)	0.00014	0.00014	0.00014
	(!A0 * B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * Y)	-0.00020	-0.00019	-0.00018
	(!A0 * !B0 * !Y)	0.00022	0.00022	0.00022
	(!A0 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !B0 * !Y)	-0.00006	-0.00006	-0.00005

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X0P5H7H	(A0 * A1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * Y)	0.00033	0.00033	0.00033

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

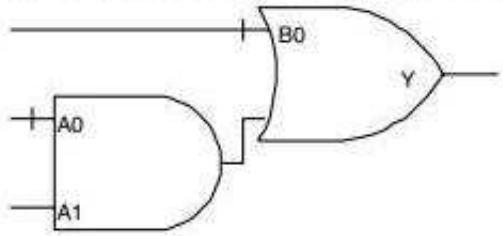
Cell Name	When	Power(pJ)		
		min	avg	max
AO21X0P5H7H	(A0 * A1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * Y)	0.00003	0.00003	0.00004
	(A0 * A1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * Y)	-0.00033	-0.00032	-0.00031

AO21X0P7H7H

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

Cell Description

The AO21 cell provides the logical OR of one AND group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

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

Footprint

Cell Name	Area
AO21X0P7H7H	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	Y
AO21X0P7H7H	0.00077	0.00081	0.00092	0.03456

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO21X0P7H7H	0.00000	0.01493	0.01493

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO21X0P7H7H	A0->Y (RR)	0.07621	0.24820	0.67156
	A1->Y (RR)	0.07350	0.24325	0.65660
	B0->Y (RR)	0.04849	0.21394	0.61648

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO21X0P7H7H	A0->Y (FF)	0.09943	0.24589	0.59599
	A1->Y (FF)	0.09255	0.23566	0.57825
	B0->Y (FF)	0.09264	0.23162	0.56661

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO21X0P7H7H	A0	0.00040	0.00046	0.00051
	A0	0.00006	0.00006	0.00006
	A0	-0.00006	-0.00006	-0.00006
	A0	0.00149	0.00154	0.00160
	A1	0.00039	0.00045	0.00051
	A1	0.00006	0.00006	0.00006
	A1	-0.00002	-0.00002	-0.00002
	A1	0.00128	0.00134	0.00140
	B0	0.00036	0.00043	0.00049
	B0	-0.00000	-0.00000	0.00000
	B0	-0.00002	-0.00002	-0.00002
	B0	0.00123	0.00130	0.00136

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO21X0P7H7H	A0	0.00157	0.00162	0.00166
	A0	-0.00006	-0.00006	-0.00006
	A0	0.00006	0.00006	0.00006
	A0	0.00045	0.00050	0.00054
	A1	0.00142	0.00148	0.00154
	A1	-0.00006	-0.00006	-0.00006
	A1	0.00002	0.00002	0.00002
	A1	0.00048	0.00053	0.00059
	B0	0.00128	0.00134	0.00140
	B0	0.00000	0.00000	0.00001
	B0	0.00006	0.00006	0.00006
	B0	0.00043	0.00049	0.00055

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X0P7H7H	(A1 * B0 * Y)	-0.00011	-0.00010	-0.00007
	(A1 * B0 * Y)	-0.00003	-0.00003	-0.00002
	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00025	0.00025	0.00026
	(!A1 * B0 * Y)	-0.00016	-0.00016	-0.00016
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * Y)	0.00022	0.00022	0.00022
	(!A1 * !B0 * !Y)	-0.00016	-0.00016	-0.00016
	(!A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * !Y)	0.00021	0.00022	0.00022

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X0P7H7H	(A1 * B0 * Y)	0.00011	0.00011	0.00011
	(A1 * B0 * Y)	0.00002	0.00003	0.00003
	(A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * Y)	-0.00025	-0.00025	-0.00025
	(!A1 * B0 * Y)	0.00016	0.00016	0.00016
	(!A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * Y)	-0.00022	-0.00021	-0.00020
	(!A1 * !B0 * !Y)	0.00016	0.00017	0.00017
	(!A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A1 * !B0 * !Y)	-0.00022	-0.00021	-0.00020

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X0P7H7H	(A0 * B0 * Y)	-0.00010	-0.00009	-0.00007
	(A0 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * Y)	0.00023	0.00023	0.00024
	(!A0 * B0 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * Y)	0.00020	0.00020	0.00020
	(!A0 * !B0 * !Y)	-0.00022	-0.00022	-0.00022
	(!A0 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !B0 * !Y)	0.00006	0.00006	0.00006

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X0P7H7H	(A0 * B0 * Y)	0.00010	0.00010	0.00010
	(A0 * B0 * Y)	0.00002	0.00002	0.00002
	(A0 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * Y)	-0.00023	-0.00023	-0.00023
	(!A0 * B0 * Y)	0.00014	0.00014	0.00014
	(!A0 * B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * Y)	-0.00020	-0.00019	-0.00018
	(!A0 * !B0 * !Y)	0.00022	0.00022	0.00022
	(!A0 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * !Y)	-0.00006	-0.00006	-0.00005

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X0P7H7H	(A0 * A1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * Y)	0.00032	0.00033	0.00033

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

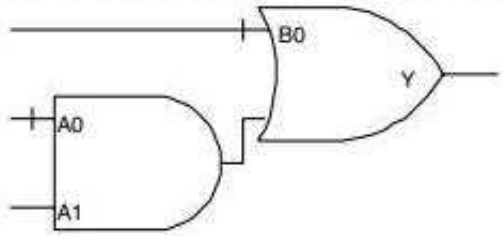
Cell Name	When	Power(pJ)		
		min	avg	max
AO21X0P7H7H	(A0 * A1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * Y)	-0.00033	-0.00032	-0.00032

AO21X1H7H

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

Cell Description

The AO21 cell provides the logical OR of one AND group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

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

Footprint

Cell Name	Area
AO21X1H7H	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	Y
AO21X1H7H	0.00076	0.00081	0.00090	0.04132

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO21X1H7H	0.00000	0.01758	0.01918

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO21X1H7H	A0->Y (RR)	0.07534	0.24849	0.67434
	A1->Y (RR)	0.07261	0.24366	0.65912
	B0->Y (RR)	0.04711	0.21368	0.61890

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO21X1H7H	A0->Y (FF)	0.10019	0.25089	0.61081
	A1->Y (FF)	0.09330	0.24065	0.59295
	B0->Y (FF)	0.09312	0.23661	0.58254

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO21X1H7H	A0	0.00046	0.00052	0.00057
	A0	0.00005	0.00005	0.00006
	A0	-0.00006	-0.00006	-0.00005
	A0	0.00152	0.00159	0.00164
	A1	0.00045	0.00051	0.00057
	A1	0.00005	0.00005	0.00006
	A1	-0.00002	-0.00002	-0.00002
	A1	0.00132	0.00138	0.00144
	B0	0.00042	0.00049	0.00056
	B0	-0.00001	-0.00001	-0.00000
	B0	-0.00002	-0.00002	-0.00001
	B0	0.00127	0.00134	0.00140

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO21X1H7H	A0	0.00159	0.00165	0.00170
	A0	-0.00006	-0.00005	-0.00005
	A0	0.00005	0.00006	0.00006
	A0	0.00049	0.00055	0.00059
	A1	0.00145	0.00151	0.00157
	A1	-0.00006	-0.00005	-0.00005
	A1	0.00002	0.00002	0.00002
	A1	0.00052	0.00058	0.00064
	B0	0.00130	0.00136	0.00143
	B0	0.00001	0.00001	0.00001
	B0	0.00005	0.00006	0.00006
	B0	0.00047	0.00054	0.00060

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X1H7H	(A1 * B0 * Y)	-0.00011	-0.00010	-0.00007
	(A1 * B0 * Y)	-0.00003	-0.00003	-0.00002
	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00025	0.00025	0.00026
	(!A1 * B0 * Y)	-0.00016	-0.00016	-0.00016
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * Y)	0.00022	0.00022	0.00022
	(!A1 * !B0 * !Y)	-0.00016	-0.00016	-0.00016
	(!A1 * !B0 * !Y)	-0.00001	-0.00001	0.00000
	(!A1 * !B0 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * !Y)	0.00022	0.00022	0.00022

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X1H7H	(A1 * B0 * Y)	0.00011	0.00011	0.00011
	(A1 * B0 * Y)	0.00002	0.00003	0.00003
	(A1 * B0 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * Y)	-0.00025	-0.00025	-0.00025
	(!A1 * B0 * Y)	0.00016	0.00016	0.00016
	(!A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * Y)	-0.00022	-0.00021	-0.00020
	(!A1 * !B0 * !Y)	0.00016	0.00017	0.00017
	(!A1 * !B0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A1 * !B0 * !Y)	-0.00022	-0.00021	-0.00020

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X1H7H	(A0 * B0 * Y)	-0.00010	-0.00009	-0.00007
	(A0 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * Y)	0.00023	0.00023	0.00024
	(!A0 * B0 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * Y)	0.00020	0.00020	0.00020
	(!A0 * !B0 * !Y)	-0.00022	-0.00022	-0.00022
	(!A0 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !B0 * !Y)	0.00005	0.00006	0.00006

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X1H7H	(A0 * B0 * Y)	0.00010	0.00010	0.00010
	(A0 * B0 * Y)	0.00002	0.00002	0.00002
	(A0 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * Y)	-0.00023	-0.00023	-0.00023
	(!A0 * B0 * Y)	0.00014	0.00014	0.00014
	(!A0 * B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * Y)	-0.00020	-0.00019	-0.00018
	(!A0 * !B0 * !Y)	0.00022	0.00022	0.00022
	(!A0 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * !Y)	-0.00006	-0.00005	-0.00005

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X1H7H	(A0 * A1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * Y)	0.00032	0.00032	0.00032

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

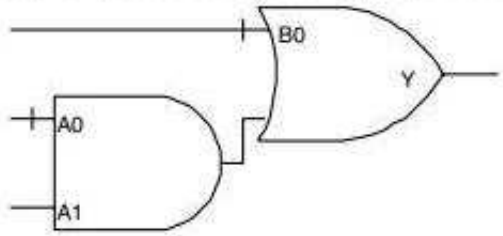
Cell Name	When	Power(pJ)		
		min	avg	max
AO21X1H7H	(A0 * A1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * Y)	0.00003	0.00003	0.00004
	(A0 * A1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * Y)	-0.00032	-0.00032	-0.00032

AO21X1P4H7H

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

Cell Description

The AO21 cell provides the logical OR of one AND group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

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

Footprint

Cell Name	Area
AO21X1P4H7H	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	Y
AO21X1P4H7H	0.00076	0.00081	0.00091	0.04713

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO21X1P4H7H	0.00000	0.02102	0.02459

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO21X1P4H7H	A0->Y (RR)	0.07543	0.24983	0.67828
	A1->Y (RR)	0.07270	0.24518	0.66497
	B0->Y (RR)	0.04668	0.21454	0.62278

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO21X1P4H7H	A0->Y (FF)	0.10138	0.25439	0.61911
	A1->Y (FF)	0.09451	0.24425	0.60195
	B0->Y (FF)	0.09464	0.24059	0.59184

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO21X1P4H7H	A0	0.00050	0.00056	0.00062
	A0	0.00005	0.00005	0.00005
	A0	-0.00005	-0.00005	-0.00005
	A0	0.00156	0.00162	0.00168
	A1	0.00049	0.00055	0.00062
	A1	0.00005	0.00005	0.00005
	A1	-0.00001	-0.00001	-0.00001
	A1	0.00135	0.00142	0.00148
	B0	0.00046	0.00054	0.00060
	B0	-0.00002	-0.00002	-0.00001
	B0	-0.00001	-0.00001	-0.00001
	B0	0.00131	0.00138	0.00145

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO21X1P4H7H	A0	0.00163	0.00169	0.00174
	A0	-0.00005	-0.00005	-0.00005
	A0	0.00005	0.00005	0.00005
	A0	0.00053	0.00059	0.00064
	A1	0.00148	0.00155	0.00161
	A1	-0.00005	-0.00005	-0.00005
	A1	0.00001	0.00001	0.00001
	A1	0.00056	0.00063	0.00069
	B0	0.00134	0.00140	0.00147
	B0	0.00001	0.00002	0.00002
	B0	0.00005	0.00005	0.00005
	B0	0.00051	0.00058	0.00065

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X1P4H7H	(A1 * B0 * Y)	-0.00011	-0.00010	-0.00007
	(A1 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00025	0.00025	0.00026
	(!A1 * B0 * Y)	-0.00016	-0.00016	-0.00016
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * Y)	0.00022	0.00022	0.00022
	(!A1 * !B0 * !Y)	-0.00016	-0.00016	-0.00016
	(!A1 * !B0 * !Y)	-0.00001	-0.00001	0.00000
	(!A1 * !B0 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * !Y)	0.00022	0.00022	0.00022

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X1P4H7H	(A1 * B0 * Y)	0.00011	0.00011	0.00011
	(A1 * B0 * Y)	0.00002	0.00003	0.00002
	(A1 * B0 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * Y)	-0.00025	-0.00025	-0.00025
	(!A1 * B0 * Y)	0.00016	0.00016	0.00016
	(!A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * Y)	-0.00022	-0.00021	-0.00020
	(!A1 * !B0 * !Y)	0.00016	0.00016	0.00017
	(!A1 * !B0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A1 * !B0 * !Y)	-0.00022	-0.00021	-0.00020

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X1P4H7H	(A0 * B0 * Y)	-0.00010	-0.00009	-0.00007
	(A0 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * Y)	0.00023	0.00023	0.00024
	(!A0 * B0 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * Y)	0.00020	0.00020	0.00020
	(!A0 * !B0 * !Y)	-0.00022	-0.00022	-0.00021
	(!A0 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !B0 * !Y)	0.00005	0.00006	0.00006

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X1P4H7H	(A0 * B0 * Y)	0.00010	0.00010	0.00010
	(A0 * B0 * Y)	0.00002	0.00002	0.00002
	(A0 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * Y)	-0.00023	-0.00023	-0.00023
	(!A0 * B0 * Y)	0.00014	0.00014	0.00014
	(!A0 * B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * Y)	-0.00020	-0.00019	-0.00018
	(!A0 * !B0 * !Y)	0.00022	0.00022	0.00022
	(!A0 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * !Y)	-0.00006	-0.00005	-0.00005

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X1P4H7H	(A0 * A1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * Y)	0.00033	0.00033	0.00033

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

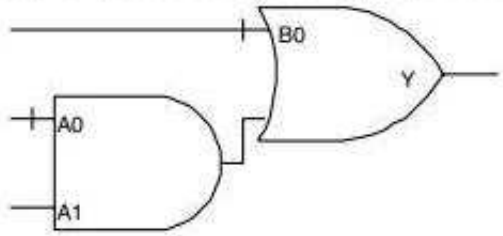
Cell Name	When	Power(pJ)		
		min	avg	max
AO21X1P4H7H	(A0 * A1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * Y)	-0.00033	-0.00032	-0.00032

AO21X2H7H

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

Cell Description

The AO21 cell provides the logical OR of one AND group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

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

Footprint

Cell Name	Area
AO21X2H7H	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	Y
AO21X2H7H	0.00076	0.00081	0.00091	0.06077

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO21X2H7H	0.00000	0.01897	0.02261

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO21X2H7H	A0->Y (RR)	0.08617	0.26559	0.70543
	A1->Y (RR)	0.08351	0.26200	0.69523
	B0->Y (RR)	0.05246	0.22581	0.64668

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO21X2H7H	A0->Y (FF)	0.11622	0.27118	0.63735
	A1->Y (FF)	0.10944	0.26154	0.62165
	B0->Y (FF)	0.10952	0.25823	0.61376

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO21X2H7H	A0	0.00074	0.00082	0.00091
	A0	0.00004	0.00004	0.00004
	A0	-0.00004	-0.00004	-0.00004
	A0	0.00179	0.00187	0.00196
	A1	0.00074	0.00082	0.00091
	A1	0.00004	0.00004	0.00004
	A1	-0.00000	-0.00000	-0.00000
	A1	0.00159	0.00167	0.00176
	B0	0.00071	0.00081	0.00090
	B0	-0.00002	-0.00002	-0.00001
	B0	-0.00000	-0.00000	-0.00000
	B0	0.00154	0.00164	0.00173

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO21X2H7H	A0	0.00196	0.00203	0.00210
	A0	-0.00004	-0.00004	-0.00004
	A0	0.00004	0.00004	0.00004
	A0	0.00088	0.00095	0.00102
	A1	0.00181	0.00190	0.00198
	A1	-0.00004	-0.00004	-0.00004
	A1	0.00000	0.00000	0.00000
	A1	0.00091	0.00099	0.00108
	B0	0.00167	0.00175	0.00184
	B0	0.00001	0.00002	0.00004
	B0	0.00004	0.00004	0.00004
	B0	0.00085	0.00094	0.00103

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X2H7H	(A1 * B0 * Y)	-0.00011	-0.00010	-0.00007
	(A1 * B0 * Y)	-0.00003	-0.00003	-0.00002
	(A1 * B0 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * Y)	0.00025	0.00025	0.00026
	(!A1 * B0 * Y)	-0.00016	-0.00016	-0.00016
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * Y)	0.00022	0.00022	0.00022
	(!A1 * !B0 * !Y)	-0.00016	-0.00016	-0.00016
	(!A1 * !B0 * !Y)	-0.00001	-0.00001	0.00000
	(!A1 * !B0 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * !Y)	0.00021	0.00022	0.00022

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X2H7H	(A1 * B0 * Y)	0.00011	0.00011	0.00011
	(A1 * B0 * Y)	0.00002	0.00003	0.00003
	(A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * Y)	-0.00025	-0.00025	-0.00024
	(!A1 * B0 * Y)	0.00016	0.00016	0.00016
	(!A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * Y)	-0.00022	-0.00021	-0.00020
	(!A1 * !B0 * !Y)	0.00016	0.00016	0.00017
	(!A1 * !B0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !Y)	-0.00022	-0.00021	-0.00020

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X2H7H	(A0 * B0 * Y)	-0.00010	-0.00009	-0.00007
	(A0 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * Y)	0.00023	0.00023	0.00024
	(!A0 * B0 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * Y)	0.00020	0.00020	0.00020
	(!A0 * !B0 * !Y)	-0.00022	-0.00022	-0.00022
	(!A0 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !B0 * !Y)	0.00005	0.00006	0.00006

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X2H7H	(A0 * B0 * Y)	0.00010	0.00010	0.00010
	(A0 * B0 * Y)	0.00002	0.00002	0.00002
	(A0 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * Y)	-0.00023	-0.00023	-0.00020
	(!A0 * B0 * Y)	0.00014	0.00014	0.00014
	(!A0 * B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * Y)	-0.00020	-0.00019	-0.00018
	(!A0 * !B0 * !Y)	0.00022	0.00022	0.00022
	(!A0 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !B0 * !Y)	-0.00006	-0.00005	-0.00005

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X2H7H	(A0 * A1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * Y)	0.00033	0.00033	0.00033

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

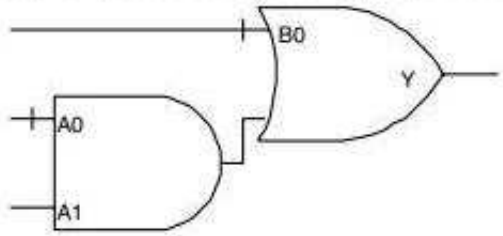
Cell Name	When	Power(pJ)		
		min	avg	max
AO21X2H7H	(A0 * A1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * Y)	-0.00033	-0.00033	-0.00033

AO21X3H7H

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

Cell Description

The AO21 cell provides the logical OR of one AND group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

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

Footprint

Cell Name	Area
AO21X3H7H	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	Y
AO21X3H7H	0.00084	0.00090	0.00100	0.08670

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO21X3H7H	0.00000	0.03249	0.03287

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO21X3H7H	A0->Y (RR)	0.07913	0.26079	0.70465
	A1->Y (RR)	0.07622	0.25539	0.68910
	B0->Y (RR)	0.04704	0.22165	0.64574

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO21X3H7H	A0->Y (FF)	0.10612	0.26425	0.63728
	A1->Y (FF)	0.09965	0.25505	0.62196
	B0->Y (FF)	0.09946	0.25167	0.61417

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO21X3H7H	A0	0.00091	0.00101	0.00111
	A0	0.00005	0.00005	0.00005
	A0	-0.00005	-0.00005	-0.00003
	A0	0.00208	0.00218	0.00228
	A1	0.00090	0.00100	0.00111
	A1	0.00005	0.00005	0.00005
	A1	0.00000	0.00000	0.00001
	A1	0.00184	0.00194	0.00205
	B0	0.00088	0.00100	0.00110
	B0	-0.00004	-0.00004	-0.00002
	B0	0.00000	0.00000	0.00001
	B0	0.00179	0.00192	0.00202

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO21X3H7H	A0	0.00226	0.00235	0.00243
	A0	-0.00005	-0.00005	-0.00005
	A0	0.00005	0.00005	0.00005
	A0	0.00105	0.00114	0.00122
	A1	0.00208	0.00219	0.00228
	A1	-0.00005	-0.00005	-0.00005
	A1	-0.00000	-0.00000	-0.00000
	A1	0.00107	0.00118	0.00127
	B0	0.00190	0.00200	0.00211
	B0	0.00003	0.00004	0.00004
	B0	0.00005	0.00005	0.00005
	B0	0.00101	0.00111	0.00122

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X3H7H	(A1 * B0 * Y)	-0.00014	-0.00012	-0.00009
	(A1 * B0 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * Y)	0.00026	0.00027	0.00027
	(!A1 * B0 * Y)	-0.00019	-0.00019	-0.00019
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * Y)	0.00023	0.00023	0.00023
	(!A1 * !B0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !Y)	0.00023	0.00023	0.00024

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X3H7H	(A1 * B0 * Y)	0.00013	0.00014	0.00014
	(A1 * B0 * Y)	0.00003	0.00003	0.00003
	(A1 * B0 * Y)	-0.00000	-0.00001	-0.00000
	(A1 * B0 * Y)	-0.00026	-0.00026	-0.00026
	(!A1 * B0 * Y)	0.00019	0.00019	0.00019
	(!A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * Y)	-0.00023	-0.00022	-0.00021
	(!A1 * !B0 * !Y)	0.00019	0.00019	0.00020
	(!A1 * !B0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !Y)	-0.00023	-0.00022	-0.00021

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X3H7H	(A0 * B0 * Y)	-0.00012	-0.00011	-0.00008
	(A0 * B0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * Y)	0.00000	0.00001	0.00001
	(A0 * B0 * Y)	0.00025	0.00025	0.00025
	(!A0 * B0 * Y)	-0.00017	-0.00017	-0.00017
	(!A0 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * Y)	0.00002	0.00002	0.00002
	(!A0 * B0 * Y)	0.00021	0.00021	0.00021
	(!A0 * !B0 * !Y)	-0.00026	-0.00025	-0.00025
	(!A0 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !Y)	0.00003	0.00003	0.00004
	(!A0 * !B0 * !Y)	0.00005	0.00005	0.00005

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X3H7H	(A0 * B0 * Y)	0.00012	0.00012	0.00012
	(A0 * B0 * Y)	0.00003	0.00003	0.00003
	(A0 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * Y)	-0.00025	-0.00025	-0.00025
	(!A0 * B0 * Y)	0.00017	0.00017	0.00017
	(!A0 * B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * B0 * Y)	-0.00021	-0.00020	-0.00019
	(!A0 * !B0 * !Y)	0.00025	0.00025	0.00026
	(!A0 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !B0 * !Y)	-0.00005	-0.00005	-0.00005

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X3H7H	(A0 * A1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * Y)	-0.00004	-0.00004	-0.00003
	(A0 * A1 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * Y)	0.00036	0.00036	0.00036

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

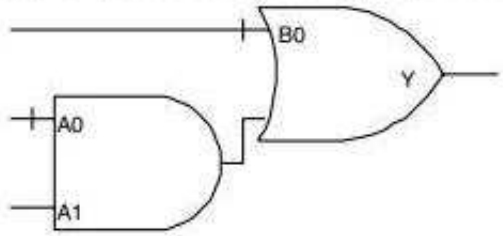
Cell Name	When	Power(pJ)		
		min	avg	max
AO21X3H7H	(A0 * A1 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * Y)	0.00003	0.00004	0.00004
	(A0 * A1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * Y)	-0.00036	-0.00036	-0.00036

AO21X4H7H

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

Cell Description

The AO21 cell provides the logical OR of one AND group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

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

Footprint

Cell Name	Area
AO21X4H7H	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	Y
AO21X4H7H	0.00094	0.00106	0.00112	0.10947

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO21X4H7H	0.00000	0.05420	0.05846

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO21X4H7H	A0->Y (RR)	0.07699	0.26002	0.70650
	A1->Y (RR)	0.07478	0.25478	0.69106
	B0->Y (RR)	0.04567	0.22144	0.64759

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO21X4H7H	A0->Y (FF)	0.10312	0.26254	0.63780
	A1->Y (FF)	0.09765	0.25442	0.62395
	B0->Y (FF)	0.09692	0.25084	0.61585

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO21X4H7H	A0	0.00112	0.00124	0.00135
	A0	0.00005	0.00005	0.00005
	A0	-0.00005	-0.00005	-0.00005
	A0	0.00244	0.00256	0.00268
	A1	0.00110	0.00122	0.00135
	A1	0.00005	0.00005	0.00005
	A1	0.00000	0.00001	0.00001
	A1	0.00218	0.00230	0.00243
	B0	0.00108	0.00122	0.00135
	B0	-0.00006	-0.00005	-0.00004
	B0	0.00000	0.00001	0.00001
	B0	0.00210	0.00225	0.00237

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO21X4H7H	A0	0.00262	0.00274	0.00284
	A0	-0.00005	-0.00005	-0.00005
	A0	0.00005	0.00005	0.00005
	A0	0.00126	0.00137	0.00148
	A1	0.00244	0.00258	0.00269
	A1	-0.00005	-0.00005	-0.00005
	A1	-0.00001	-0.00001	0.00000
	A1	0.00129	0.00142	0.00154
	B0	0.00223	0.00235	0.00248
	B0	0.00004	0.00005	0.00007
	B0	0.00005	0.00005	0.00005
	B0	0.00124	0.00136	0.00149

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X4H7H	(A1 * B0 * Y)	-0.00016	-0.00013	-0.00010
	(A1 * B0 * Y)	-0.00004	-0.00003	-0.00003
	(A1 * B0 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * Y)	0.00029	0.00030	0.00030
	(!A1 * B0 * Y)	-0.00021	-0.00021	-0.00021
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * Y)	0.00025	0.00025	0.00026
	(!A1 * !B0 * !Y)	-0.00022	-0.00021	-0.00021
	(!A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !Y)	0.00025	0.00026	0.00027

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X4H7H	(A1 * B0 * Y)	0.00015	0.00015	0.00016
	(A1 * B0 * Y)	0.00003	0.00004	0.00004
	(A1 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * Y)	-0.00029	-0.00029	-0.00029
	(!A1 * B0 * Y)	0.00021	0.00021	0.00021
	(!A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * Y)	-0.00025	-0.00024	-0.00023
	(!A1 * !B0 * !Y)	0.00021	0.00022	0.00022
	(!A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !Y)	-0.00026	-0.00024	-0.00023

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X4H7H	(A0 * B0 * Y)	-0.00015	-0.00013	-0.00010
	(A0 * B0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * Y)	0.00000	0.00001	0.00001
	(A0 * B0 * Y)	0.00029	0.00029	0.00029
	(!A0 * B0 * Y)	-0.00020	-0.00020	-0.00019
	(!A0 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * Y)	0.00002	0.00002	0.00002
	(!A0 * B0 * Y)	0.00024	0.00024	0.00025
	(!A0 * !B0 * !Y)	-0.00031	-0.00031	-0.00030
	(!A0 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !Y)	0.00004	0.00004	0.00005
	(!A0 * !B0 * !Y)	0.00005	0.00005	0.00005

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X4H7H	(A0 * B0 * Y)	0.00015	0.00015	0.00015
	(A0 * B0 * Y)	0.00003	0.00003	0.00003
	(A0 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * Y)	-0.00029	-0.00028	-0.00028
	(!A0 * B0 * Y)	0.00020	0.00020	0.00020
	(!A0 * B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * B0 * Y)	-0.00025	-0.00024	-0.00022
	(!A0 * !B0 * !Y)	0.00031	0.00031	0.00031
	(!A0 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !Y)	-0.00004	-0.00003	-0.00003
	(!A0 * !B0 * !Y)	-0.00005	-0.00005	-0.00005

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X4H7H	(A0 * A1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * Y)	0.00039	0.00039	0.00039

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

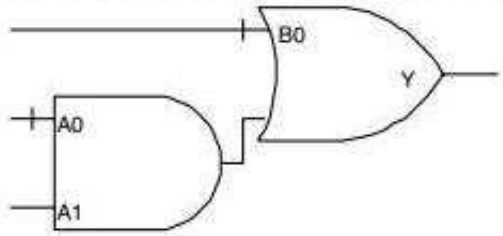
Cell Name	When	Power(pJ)		
		min	avg	max
AO21X4H7H	(A0 * A1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * Y)	0.00005	0.00005	0.00006
	(A0 * A1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * Y)	-0.00039	-0.00039	-0.00039

AO21X6H7H

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

Cell Description

The AO21 cell provides the logical OR of one AND group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

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

Footprint

Cell Name	Area
AO21X6H7H	3.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	Y
AO21X6H7H	0.00104	0.00113	0.00125	0.16353

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO21X6H7H	0.00000	0.07914	0.08407

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO21X6H7H	A0->Y (RR)	0.08419	0.27120	0.72607
	A1->Y (RR)	0.08130	0.26557	0.71105
	B0->Y (RR)	0.04919	0.22914	0.66533

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO21X6H7H	A0->Y (FF)	0.11341	0.27810	0.66322
	A1->Y (FF)	0.10707	0.26943	0.64971
	B0->Y (FF)	0.10740	0.26710	0.64439

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO21X6H7H	A0	0.00176	0.00193	0.00211
	A0	0.00004	0.00004	0.00004
	A0	-0.00004	-0.00004	-0.00004
	A0	0.00320	0.00337	0.00354
	A1	0.00175	0.00192	0.00211
	A1	0.00003	0.00003	0.00004
	A1	0.00003	0.00003	0.00003
	A1	0.00289	0.00307	0.00325
	B0	0.00172	0.00193	0.00211
	B0	-0.00009	-0.00009	-0.00006
	B0	0.00003	0.00003	0.00004
	B0	0.00282	0.00302	0.00320

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO21X6H7H	A0	0.00343	0.00359	0.00374
	A0	-0.00004	-0.00004	-0.00004
	A0	0.00004	0.00004	0.00004
	A0	0.00195	0.00211	0.00226
	A1	0.00321	0.00338	0.00355
	A1	-0.00004	-0.00003	-0.00003
	A1	-0.00003	-0.00003	-0.00003
	A1	0.00197	0.00214	0.00231
	B0	0.00298	0.00315	0.00333
	B0	0.00009	0.00009	0.00010
	B0	0.00004	0.00004	0.00004
	B0	0.00191	0.00209	0.00228

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X6H7H	(A1 * B0 * Y)	-0.00018	-0.00016	-0.00012
	(A1 * B0 * Y)	-0.00004	-0.00004	-0.00003
	(A1 * B0 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * Y)	0.00031	0.00032	0.00032
	(!A1 * B0 * Y)	-0.00025	-0.00025	-0.00025
	(!A1 * B0 * Y)	-0.00002	-0.00001	-0.00001
	(!A1 * B0 * Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * Y)	0.00027	0.00027	0.00027
	(!A1 * !B0 * !Y)	-0.00025	-0.00025	-0.00025
	(!A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !Y)	0.00002	0.00002	0.00003
	(!A1 * !B0 * !Y)	0.00027	0.00027	0.00028

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X6H7H	(A1 * B0 * Y)	0.00018	0.00018	0.00019
	(A1 * B0 * Y)	0.00003	0.00004	0.00004
	(A1 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * Y)	-0.00031	-0.00031	-0.00031
	(!A1 * B0 * Y)	0.00025	0.00025	0.00025
	(!A1 * B0 * Y)	0.00001	0.00002	0.00002
	(!A1 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * Y)	-0.00027	-0.00026	-0.00024
	(!A1 * !B0 * !Y)	0.00025	0.00025	0.00026
	(!A1 * !B0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !Y)	-0.00003	-0.00002	-0.00002
	(!A1 * !B0 * !Y)	-0.00027	-0.00026	-0.00024

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X6H7H	(A0 * B0 * Y)	-0.00017	-0.00015	-0.00011
	(A0 * B0 * Y)	-0.00004	-0.00004	-0.00004
	(A0 * B0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * Y)	0.00031	0.00031	0.00031
	(!A0 * B0 * Y)	-0.00023	-0.00023	-0.00022
	(!A0 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * Y)	0.00002	0.00002	0.00002
	(!A0 * B0 * Y)	0.00026	0.00026	0.00026
	(!A0 * !B0 * !Y)	-0.00033	-0.00033	-0.00033
	(!A0 * !B0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B0 * !Y)	0.00003	0.00005	0.00005
	(!A0 * !B0 * !Y)	0.00005	0.00006	0.00007

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X6H7H	(A0 * B0 * Y)	0.00017	0.00017	0.00017
	(A0 * B0 * Y)	0.00004	0.00004	0.00004
	(A0 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * Y)	-0.00031	-0.00031	-0.00031
	(!A0 * B0 * Y)	0.00023	0.00023	0.00023
	(!A0 * B0 * Y)	0.00001	0.00002	0.00002
	(!A0 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * B0 * Y)	-0.00026	-0.00025	-0.00024
	(!A0 * !B0 * !Y)	0.00033	0.00033	0.00034
	(!A0 * !B0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !B0 * !Y)	-0.00004	-0.00004	-0.00003
	(!A0 * !B0 * !Y)	-0.00006	-0.00006	-0.00005

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X6H7H	(A0 * A1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * Y)	-0.00006	-0.00006	-0.00006
	(A0 * A1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * Y)	0.00043	0.00044	0.00044

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

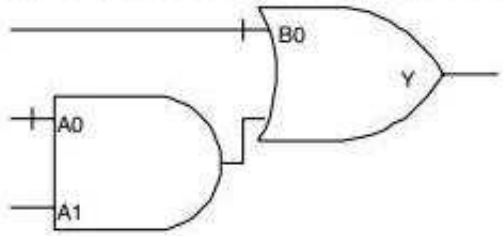
Cell Name	When	Power(pJ)		
		min	avg	max
AO21X6H7H	(A0 * A1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * Y)	0.00006	0.00006	0.00007
	(A0 * A1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * Y)	-0.00044	-0.00043	-0.00043

AO21X8H7H

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

Cell Description

The AO21 cell provides the logical OR of one AND group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

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

Footprint

Cell Name	Area
AO21X8H7H	5.04000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	Y
AO21X8H7H	0.00184	0.00198	0.00212	0.21896

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO21X8H7H	0.00000	0.10838	0.11691

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO21X8H7H	A0->Y (RR)	0.07708	0.26206	0.71142
	A1->Y (RR)	0.07374	0.25562	0.69466
	B0->Y (RR)	0.04400	0.22165	0.65114

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO21X8H7H	A0->Y (FF)	0.10387	0.26489	0.64216
	A1->Y (FF)	0.09623	0.25488	0.62621
	B0->Y (FF)	0.09629	0.25225	0.61988

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO21X8H7H	A0	0.00220	0.00244	0.00268
	A0	0.00010	0.00010	0.00010
	A0	-0.00011	-0.00011	-0.00010
	A0	0.00492	0.00516	0.00539
	A1	0.00217	0.00241	0.00267
	A1	0.00010	0.00010	0.00010
	A1	0.00000	0.00001	0.00002
	A1	0.00431	0.00456	0.00482
	B0	0.00216	0.00246	0.00271
	B0	-0.00011	-0.00010	-0.00008
	B0	0.00001	0.00002	0.00002
	B0	0.00428	0.00457	0.00482

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO21X8H7H	A0	0.00536	0.00560	0.00582
	A0	-0.00010	-0.00010	-0.00010
	A0	0.00010	0.00011	0.00011
	A0	0.00260	0.00283	0.00306
	A1	0.00493	0.00520	0.00543
	A1	-0.00010	-0.00010	-0.00010
	A1	-0.00001	-0.00001	0.00000
	A1	0.00264	0.00290	0.00314
	B0	0.00451	0.00476	0.00502
	B0	0.00008	0.00011	0.00013
	B0	0.00010	0.00010	0.00011
	B0	0.00252	0.00276	0.00303

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X8H7H	(A1 * B0 * Y)	-0.00029	-0.00026	-0.00020
	(A1 * B0 * Y)	-0.00007	-0.00006	-0.00006
	(A1 * B0 * Y)	0.00001	0.00002	0.00002
	(A1 * B0 * Y)	0.00063	0.00064	0.00064
	(!A1 * B0 * Y)	-0.00040	-0.00040	-0.00040
	(!A1 * B0 * Y)	-0.00003	-0.00002	-0.00001
	(!A1 * B0 * Y)	0.00004	0.00004	0.00004
	(!A1 * B0 * Y)	0.00052	0.00052	0.00053
	(!A1 * !B0 * !Y)	-0.00041	-0.00041	-0.00041
	(!A1 * !B0 * !Y)	-0.00003	-0.00002	-0.00000
	(!A1 * !B0 * !Y)	0.00004	0.00004	0.00005
	(!A1 * !B0 * !Y)	0.00052	0.00053	0.00053

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X8H7H	(A1 * B0 * Y)	0.00028	0.00029	0.00030
	(A1 * B0 * Y)	0.00006	0.00006	0.00007
	(A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * Y)	-0.00064	-0.00063	-0.00062
	(!A1 * B0 * Y)	0.00040	0.00040	0.00040
	(!A1 * B0 * Y)	0.00002	0.00003	0.00003
	(!A1 * B0 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * B0 * Y)	-0.00053	-0.00050	-0.00047
	(!A1 * !B0 * !Y)	0.00041	0.00042	0.00044
	(!A1 * !B0 * !Y)	0.00000	0.00002	0.00003
	(!A1 * !B0 * !Y)	-0.00005	-0.00004	-0.00004
	(!A1 * !B0 * !Y)	-0.00052	-0.00049	-0.00046

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X8H7H	(A0 * B0 * Y)	-0.00030	-0.00026	-0.00019
	(A0 * B0 * Y)	-0.00006	-0.00006	-0.00006
	(A0 * B0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * Y)	0.00062	0.00063	0.00064
	(!A0 * B0 * Y)	-0.00041	-0.00041	-0.00041
	(!A0 * B0 * Y)	-0.00003	-0.00002	-0.00001
	(!A0 * B0 * Y)	0.00004	0.00004	0.00004
	(!A0 * B0 * Y)	0.00051	0.00051	0.00051
	(!A0 * !B0 * !Y)	-0.00062	-0.00061	-0.00061
	(!A0 * !B0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !B0 * !Y)	0.00007	0.00008	0.00009
	(!A0 * !B0 * !Y)	0.00011	0.00012	0.00013

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X8H7H	(A0 * B0 * Y)	0.00029	0.00030	0.00030
	(A0 * B0 * Y)	0.00006	0.00006	0.00006
	(A0 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * Y)	-0.00062	-0.00062	-0.00061
	(!A0 * B0 * Y)	0.00041	0.00041	0.00041
	(!A0 * B0 * Y)	0.00002	0.00003	0.00003
	(!A0 * B0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * B0 * Y)	-0.00051	-0.00048	-0.00045
	(!A0 * !B0 * !Y)	0.00061	0.00061	0.00062
	(!A0 * !B0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !B0 * !Y)	-0.00007	-0.00007	-0.00005
	(!A0 * !B0 * !Y)	-0.00013	-0.00012	-0.00011

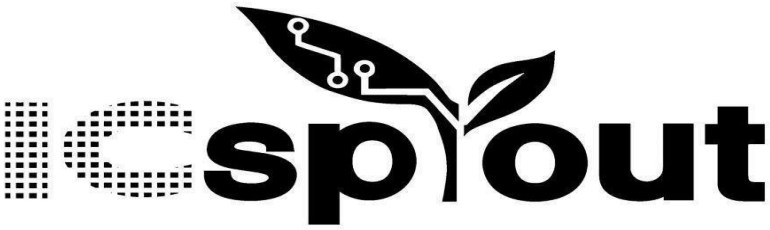
Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X8H7H	(A0 * A1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * Y)	-0.00009	-0.00008	-0.00007
	(A0 * A1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * Y)	0.00079	0.00080	0.00080

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X8H7H	(A0 * A1 * Y)	0.00000	0.00000	0.00002
	(A0 * A1 * Y)	0.00007	0.00009	0.00009
	(A0 * A1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * Y)	-0.00080	-0.00079	-0.00078

AO221X0P5H7H



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

Truth Table

INPUT					OUTPUT
A0	A1	B0	B1	C0	Y
0	x	0	x	0	0
0	x	x	x	1	1
0	x	1	0	0	0
x	x	1	1	x	1
1	0	0	x	0	0
1	0	x	x	1	1
1	0	1	0	0	0
1	1	x	x	x	1

Footprint

Cell Name	Area
AO221X0P5H7H	3.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	A1	B0	B1	C0	Y
AO221X0P5H7H	0.00075	0.00080	0.00079	0.00088	0.00088	0.03035

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO221X0P5H7H	0.00000	0.01559	0.02014

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO221X0P5H7H	A0->Y (RR)	0.09821	0.27845	0.72316
	A1->Y (RR)	0.09573	0.27583	0.71652
	B0->Y (RR)	0.09218	0.26947	0.70646
	B1->Y (RR)	0.09032	0.26683	0.69930
	C0->Y (RR)	0.05747	0.22874	0.64734

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO221X0P5H7H	A0->Y (FF)	0.18722	0.34343	0.71106
	A1->Y (FF)	0.17724	0.33112	0.69431
	B0->Y (FF)	0.17787	0.33449	0.71001
	B1->Y (FF)	0.16844	0.32192	0.69098
	C0->Y (FF)	0.15807	0.30698	0.66818

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO221X0P5H7H	A0	0.00036	0.00041	0.00046
	A0	0.00015	0.00015	0.00015
	A0	-0.00009	-0.00009	-0.00008
	A0	0.00200	0.00205	0.00210
	A1	0.00036	0.00041	0.00046
	A1	0.00014	0.00015	0.00015
	A1	-0.00005	-0.00005	-0.00004
	A1	0.00184	0.00190	0.00195
	B0	0.00035	0.00041	0.00046
	B0	0.00006	0.00007	0.00011
	B0	-0.00009	-0.00009	-0.00009
	B0	0.00176	0.00182	0.00187
	B1	0.00036	0.00042	0.00047
	B1	0.00006	0.00006	0.00006
	B1	-0.00005	-0.00005	-0.00005
	B1	0.00160	0.00166	0.00171
	C0	0.00034	0.00040	0.00045
	C0	-0.00000	0.00000	0.00001
	C0	-0.00005	-0.00005	-0.00005
	C0	0.00154	0.00160	0.00165

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO221X0P5H7H	A0	0.00229	0.00233	0.00238
	A0	-0.00014	-0.00014	-0.00014
	A0	0.00012	0.00013	0.00013
	A0	0.00057	0.00061	0.00066
	A1	0.00215	0.00221	0.00227
	A1	-0.00014	-0.00014	-0.00014
	A1	0.00008	0.00009	0.00010
	A1	0.00055	0.00061	0.00067
	B0	0.00198	0.00202	0.00207
	B0	-0.00007	-0.00006	-0.00006
	B0	0.00012	0.00013	0.00013
	B0	0.00057	0.00061	0.00065
	B1	0.00182	0.00188	0.00194
	B1	-0.00006	-0.00006	-0.00006
	B1	0.00008	0.00009	0.00010
	B1	0.00055	0.00061	0.00068
	C0	0.00164	0.00169	0.00176
	C0	0.00000	0.00000	0.00001
	C0	0.00012	0.00013	0.00013
	C0	0.00049	0.00054	0.00060

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X0P5H7H	**(A1 * B0 * B1 * C0 * Y)**	-0.00010	-0.00009	-0.00006
	(A1 * B0 * B1 * C0 * Y)	-0.00003	-0.00003	-0.00002
	(A1 * B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C0 * Y)	0.00023	0.00023	0.00024
	(A1 * B0 * B1 * !C0 * Y)	-0.00010	-0.00009	-0.00006
	(A1 * B0 * B1 * !C0 * Y)	-0.00003	-0.00002	-0.00002
	(A1 * B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C0 * Y)	0.00023	0.00023	0.00024
	(A1 * !B1 * C0 * Y)	-0.00010	-0.00008	-0.00006
	(A1 * !B1 * C0 * Y)	-0.00003	-0.00002	-0.00002
	(A1 * !B1 * C0 * Y)	0.00000	0.00000	0.00001
	(A1 * !B1 * C0 * Y)	0.00023	0.00023	0.00024
	(A1 * !B0 * B1 * C0 * Y)	-0.00010	-0.00008	-0.00006
	(A1 * !B0 * B1 * C0 * Y)	-0.00003	-0.00003	-0.00002
	(A1 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00001
	(A1 * !B0 * B1 * C0 * Y)	0.00023	0.00023	0.00024
	(!A1 * B0 * B1 * Y)	-0.00014	-0.00014	-0.00014
	(!A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * Y)	0.00020	0.00020	0.00020
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	-0.00014	-0.00014	-0.00014
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	0.00020	0.00020	0.00020
	(!A1 * !B1 * !C0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A1 * !B1 * !C0 * !Y)	-0.00001	-0.00001	0.00000
	(!A1 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C0 * !Y)	0.00018	0.00018	0.00018
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	0.00000
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00018	0.00018	0.00018

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X0P5H7H	**(A1 * B0 * B1 * C0 * Y)**	0.00010	0.00010	0.00010
	(A1 * B0 * B1 * C0 * Y)	0.00002	0.00003	0.00003
	(A1 * B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * C0 * Y)	-0.00023	-0.00023	-0.00023
	(A1 * B0 * B1 * !C0 * Y)	0.00010	0.00010	0.00010
	(A1 * B0 * B1 * !C0 * Y)	0.00002	0.00002	0.00003
	(A1 * B0 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * !C0 * Y)	-0.00023	-0.00023	-0.00023
	(A1 * !B1 * C0 * Y)	0.00009	0.00010	0.00010
	(A1 * !B1 * C0 * Y)	0.00002	0.00002	0.00003
	(A1 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B1 * C0 * Y)	-0.00023	-0.00023	-0.00023
	(A1 * !B0 * B1 * C0 * Y)	0.00009	0.00010	0.00010
	(A1 * !B0 * B1 * C0 * Y)	0.00002	0.00003	0.00003
	(A1 * !B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * B1 * C0 * Y)	-0.00023	-0.00023	-0.00023
	(!A1 * B0 * B1 * Y)	0.00014	0.00014	0.00015
	(!A1 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * Y)	-0.00020	-0.00020	-0.00019
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	0.00014	0.00014	0.00015
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	-0.00020	-0.00020	-0.00019
	(!A1 * !B1 * !C0 * !Y)	0.00017	0.00017	0.00018
	(!A1 * !B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C0 * !Y)	-0.00018	-0.00017	-0.00016
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00017	0.00017	0.00018
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00018	-0.00017	-0.00016

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X0P5H7H	**(A0 * B0 * B1 * C0 * Y)**	-0.00010	-0.00008	-0.00006
	(A0 * B0 * B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * C0 * Y)	0.00025	0.00026	0.00026
	(A0 * B0 * B1 * !C0 * Y)	-0.00010	-0.00008	-0.00007
	(A0 * B0 * B1 * !C0 * Y)	-0.00003	-0.00002	-0.00002
	(A0 * B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !C0 * Y)	0.00025	0.00026	0.00026
	(A0 * !B1 * C0 * Y)	-0.00009	-0.00008	-0.00006
	(A0 * !B1 * C0 * Y)	-0.00003	-0.00002	-0.00002
	(A0 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !B1 * C0 * Y)	0.00026	0.00026	0.00026
	(A0 * !B0 * B1 * C0 * Y)	-0.00009	-0.00008	-0.00006
	(A0 * !B0 * B1 * C0 * Y)	-0.00003	-0.00002	-0.00002
	(A0 * !B0 * B1 * C0 * Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * B1 * C0 * Y)	0.00025	0.00026	0.00026
	(!A0 * B0 * B1 * C0 * Y)	-0.00014	-0.00013	-0.00013
	(!A0 * B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * C0 * Y)	0.00022	0.00022	0.00023
	(!A0 * B0 * B1 * !C0 * Y)	-0.00014	-0.00013	-0.00013
	(!A0 * B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * !C0 * Y)	0.00022	0.00022	0.00023
	(!A0 * !B1 * C0 * Y)	-0.00014	-0.00014	-0.00013
	(!A0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * C0 * Y)	0.00022	0.00022	0.00022
	(!A0 * !B1 * !C0 * !Y)	-0.00023	-0.00023	-0.00023
	(!A0 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * !C0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !B1 * !C0 * !Y)	0.00006	0.00007	0.00007
	(!A0 * !B0 * B1 * C0 * Y)	-0.00014	-0.00013	-0.00013
	(!A0 * !B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * B1 * C0 * Y)	0.00022	0.00022	0.00023
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00023	-0.00023	-0.00023
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00007	0.00007	0.00007

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X0P5H7H	**(A0 * B0 * B1 * C0 * Y)**	0.00009	0.00010	0.00010
	(A0 * B0 * B1 * C0 * Y)	0.00002	0.00002	0.00002
	(A0 * B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * C0 * Y)	-0.00025	-0.00025	-0.00025
	(A0 * B0 * B1 * !C0 * Y)	0.00009	0.00010	0.00010
	(A0 * B0 * B1 * !C0 * Y)	0.00002	0.00002	0.00003
	(A0 * B0 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * !C0 * Y)	-0.00026	-0.00025	-0.00025
	(A0 * !B1 * C0 * Y)	0.00009	0.00009	0.00009
	(A0 * !B1 * C0 * Y)	0.00002	0.00002	0.00003
	(A0 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B1 * C0 * Y)	-0.00026	-0.00026	-0.00026
	(A0 * !B0 * B1 * C0 * Y)	0.00009	0.00009	0.00009
	(A0 * !B0 * B1 * C0 * Y)	0.00002	0.00002	0.00003
	(A0 * !B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * B1 * C0 * Y)	-0.00026	-0.00025	-0.00023
	(!A0 * B0 * B1 * C0 * Y)	0.00013	0.00013	0.00014
	(!A0 * B0 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * C0 * Y)	-0.00023	-0.00022	-0.00021
	(!A0 * B0 * B1 * !C0 * Y)	0.00013	0.00013	0.00014
	(!A0 * B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00002
	(!A0 * B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * !C0 * Y)	-0.00022	-0.00022	-0.00020
	(!A0 * !B1 * C0 * Y)	0.00013	0.00014	0.00014
	(!A0 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * C0 * Y)	-0.00022	-0.00022	-0.00021
	(!A0 * !B1 * !C0 * !Y)	0.00023	0.00023	0.00023
	(!A0 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * !C0 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * !B1 * !C0 * !Y)	-0.00007	-0.00007	-0.00006
	(!A0 * !B0 * B1 * C0 * Y)	0.00013	0.00014	0.00014
	(!A0 * !B0 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * B1 * C0 * Y)	-0.00022	-0.00022	-0.00021
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00023	0.00023	0.00023
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00007	-0.00007	-0.00007

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X0P5H7H	**(A0 * A1 * B1 * C0 * Y)**	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * C0 * Y)	-0.00007	-0.00006	-0.00006
	(A0 * A1 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * Y)	0.00022	0.00022	0.00023
	(A0 * A1 * B1 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * !C0 * Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * B1 * !C0 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * B1 * !C0 * Y)	0.00022	0.00023	0.00023
	(A0 * A1 * !B1 * C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * Y)	-0.00006	-0.00006	-0.00006
	(A0 * A1 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * C0 * Y)	0.00020	0.00020	0.00020
	(A0 * A1 * !B1 * !C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !C0 * Y)	0.00020	0.00020	0.00020
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	-0.00019	-0.00019	-0.00019
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	0.00017	0.00017	0.00018
	(!A1 * B1 * C0 * Y)	-0.00015	-0.00014	-0.00011
	(!A1 * B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B1 * C0 * Y)	0.00000	0.00000	0.00001
	(!A1 * B1 * C0 * Y)	0.00021	0.00021	0.00022
	(!A1 * !B1 * !C0 * !Y)	-0.00021	-0.00021	-0.00021
	(!A1 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B1 * !C0 * !Y)	0.00016	0.00016	0.00017
	(!A0 * A1 * B1 * C0 * Y)	-0.00015	-0.00014	-0.00011
	(!A0 * A1 * B1 * C0 * Y)	-0.00003	-0.00002	-0.00002
	(!A0 * A1 * B1 * C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * B1 * C0 * Y)	0.00021	0.00021	0.00022
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00021	-0.00021	-0.00021
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00016	0.00016	0.00017

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X0P5H7H	**(A0 * A1 * B1 * C0 * Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * Y)	0.00006	0.00006	0.00007
	(A0 * A1 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * C0 * Y)	-0.00023	-0.00022	-0.00022
	(A0 * A1 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * Y)	0.00005	0.00005	0.00005
	(A0 * A1 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * !C0 * Y)	-0.00023	-0.00022	-0.00022
	(A0 * A1 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * Y)	0.00006	0.00006	0.00006
	(A0 * A1 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * C0 * Y)	-0.00020	-0.00019	-0.00018
	(A0 * A1 * !B1 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * Y)	0.00005	0.00005	0.00005
	(A0 * A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C0 * Y)	-0.00020	-0.00019	-0.00018
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	0.00019	0.00019	0.00019
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	-0.00018	-0.00017	-0.00016
	(!A1 * B1 * C0 * Y)	0.00015	0.00015	0.00016
	(!A1 * B1 * C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B1 * C0 * Y)	-0.00021	-0.00021	-0.00021
	(!A1 * !B1 * !C0 * !Y)	0.00021	0.00021	0.00022
	(!A1 * !B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B1 * !C0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A1 * !B1 * !C0 * !Y)	-0.00016	-0.00015	-0.00014
	(!A0 * A1 * B1 * C0 * Y)	0.00015	0.00015	0.00015
	(!A0 * A1 * B1 * C0 * Y)	0.00002	0.00002	0.00003
	(!A0 * A1 * B1 * C0 * Y)	-0.00001	-0.00000	-0.00000
	(!A0 * A1 * B1 * C0 * Y)	-0.00021	-0.00021	-0.00021
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00021	0.00021	0.00022
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00016	-0.00015	-0.00015

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X0P5H7H	**(A0 * A1 * B0 * C0 * Y)**	-0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * Y)	-0.00006	-0.00006	-0.00005
	(A0 * A1 * B0 * C0 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * B0 * C0 * Y)	0.00025	0.00025	0.00025
	(A0 * A1 * B0 * !C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * Y)	0.00025	0.00025	0.00025
	(A0 * A1 * !B0 * C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * C0 * Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00002
	(A0 * A1 * !B0 * C0 * Y)	0.00022	0.00022	0.00022
	(A0 * A1 * !B0 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * !B0 * !C0 * Y)	0.00001	0.00001	0.00002
	(A0 * A1 * !B0 * !C0 * Y)	0.00022	0.00022	0.00022
	(!A1 * B0 * C0 * Y)	-0.00012	-0.00011	-0.00009
	(!A1 * B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * C0 * Y)	0.00024	0.00024	0.00025
	(!A1 * !B0 * C0 * Y)	-0.00016	-0.00016	-0.00016
	(!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * Y)	0.00020	0.00020	0.00021
	(!A1 * !B0 * !C0 * !Y)	-0.00027	-0.00026	-0.00026
	(!A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * !Y)	0.00002	0.00003	0.00003
	(!A1 * !B0 * !C0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * A1 * B0 * C0 * Y)	-0.00012	-0.00011	-0.00009
	(!A0 * A1 * B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * B0 * C0 * Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * B0 * C0 * Y)	0.00024	0.00024	0.00024
	(!A0 * A1 * !B0 * C0 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * !B0 * C0 * Y)	0.00020	0.00020	0.00021
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00027	-0.00026	-0.00026
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00002	0.00003	0.00003

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X0P5H7H	**(A0 * A1 * B0 * C0 * Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * Y)	0.00005	0.00006	0.00006
	(A0 * A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * C0 * Y)	-0.00025	-0.00025	-0.00025
	(A0 * A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * Y)	0.00004	0.00004	0.00005
	(A0 * A1 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * !C0 * Y)	-0.00025	-0.00025	-0.00025
	(A0 * A1 * !B0 * C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * C0 * Y)	0.00005	0.00005	0.00005
	(A0 * A1 * !B0 * C0 * Y)	-0.00002	-0.00001	-0.00001
	(A0 * A1 * !B0 * C0 * Y)	-0.00022	-0.00021	-0.00020
	(A0 * A1 * !B0 * !C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * Y)	0.00004	0.00004	0.00005
	(A0 * A1 * !B0 * !C0 * Y)	-0.00002	-0.00001	-0.00001
	(A0 * A1 * !B0 * !C0 * Y)	-0.00022	-0.00021	-0.00020
	(!A1 * B0 * C0 * Y)	0.00012	0.00012	0.00012
	(!A1 * B0 * C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * C0 * Y)	-0.00024	-0.00024	-0.00024
	(!A1 * !B0 * C0 * Y)	0.00016	0.00016	0.00016
	(!A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * Y)	-0.00021	-0.00020	-0.00019
	(!A1 * !B0 * !C0 * !Y)	0.00026	0.00026	0.00027
	(!A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A1 * !B0 * !C0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * A1 * B0 * C0 * Y)	0.00012	0.00012	0.00012
	(!A0 * A1 * B0 * C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * C0 * Y)	-0.00024	-0.00024	-0.00024
	(!A0 * A1 * !B0 * C0 * Y)	0.00016	0.00016	0.00016
	(!A0 * A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * C0 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * A1 * !B0 * C0 * Y)	-0.00021	-0.00020	-0.00019
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00026	0.00026	0.00027
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00003	-0.00003	-0.00002

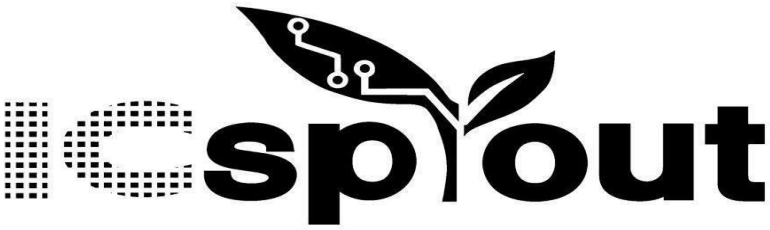
Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO221X0P5H7H	(A1 * B0 * B1 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * Y)	0.00031	0.00032	0.00032
	(A0 * A1 * !B1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * Y)	0.00031	0.00032	0.00032
	(A0 * A1 * !B0 * B1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * B1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * Y)	0.00031	0.00032	0.00032
	(!A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * Y)	-0.00003	-0.00003	-0.00002
	(!A1 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * Y)	0.00031	0.00031	0.00032

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO221X0P5H7H	(A1 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * Y)	0.00003	0.00003	0.00004
	(A1 * B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * Y)	-0.00032	-0.00031	-0.00031
	(A0 * A1 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B1 * Y)	-0.00031	-0.00031	-0.00031
	(A0 * A1 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B0 * B1 * Y)	-0.00031	-0.00031	-0.00031
	(!A1 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * Y)	0.00002	0.00003	0.00003
	(!A1 * B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * Y)	-0.00032	-0.00031	-0.00031

AO221X0P7H7H



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

Truth Table

INPUT					OUTPUT
A0	A1	B0	B1	C0	Y
0	x	0	x	0	0
0	x	x	x	1	1
0	x	1	0	0	0
x	x	1	1	x	1
1	0	0	x	0	0
1	0	x	x	1	1
1	0	1	0	0	0
1	1	x	x	x	1

Footprint

Cell Name	Area
AO221X0P7H7H	3.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	A1	B0	B1	C0	Y
AO221X0P7H7H	0.00075	0.00080	0.00079	0.00088	0.00088	0.03465

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO221X0P7H7H	0.00000	0.01698	0.01965

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO221X0P7H7H	A0->Y (RR)	0.09714	0.27880	0.72598
	A1->Y (RR)	0.09466	0.27627	0.71987
	B0->Y (RR)	0.09114	0.26986	0.70990
	B1->Y (RR)	0.08924	0.26725	0.70246
	C0->Y (RR)	0.05622	0.22876	0.65037

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO221X0P7H7H	A0->Y (FF)	0.18787	0.34654	0.71812
	A1->Y (FF)	0.17791	0.33425	0.70151
	B0->Y (FF)	0.17853	0.33765	0.71727
	B1->Y (FF)	0.16911	0.32509	0.69834
	C0->Y (FF)	0.15878	0.31027	0.67620

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO221X0P7H7H	A0	0.00039	0.00044	0.00050
	A0	0.00014	0.00014	0.00014
	A0	-0.00009	-0.00008	-0.00008
	A0	0.00202	0.00207	0.00213
	A1	0.00039	0.00044	0.00050
	A1	0.00014	0.00014	0.00014
	A1	-0.00005	-0.00005	-0.00004
	A1	0.00187	0.00192	0.00198
	B0	0.00038	0.00044	0.00049
	B0	0.00006	0.00007	0.00011
	B0	-0.00009	-0.00009	-0.00007
	B0	0.00178	0.00184	0.00189
	B1	0.00039	0.00045	0.00051
	B1	0.00006	0.00006	0.00007
	B1	-0.00005	-0.00005	-0.00003
	B1	0.00162	0.00168	0.00174
	C0	0.00037	0.00043	0.00049
	C0	-0.00000	-0.00000	0.00000
	C0	-0.00005	-0.00005	-0.00004
	C0	0.00156	0.00162	0.00168

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO221X0P7H7H	A0	0.00231	0.00236	0.00241
	A0	-0.00014	-0.00014	-0.00013
	A0	0.00012	0.00012	0.00012
	A0	0.00060	0.00064	0.00069
	A1	0.00218	0.00224	0.00229
	A1	-0.00014	-0.00014	-0.00013
	A1	0.00008	0.00008	0.00009
	A1	0.00058	0.00064	0.00070
	B0	0.00200	0.00204	0.00209
	B0	-0.00007	-0.00006	-0.00006
	B0	0.00012	0.00012	0.00012
	B0	0.00060	0.00064	0.00069
	B1	0.00185	0.00191	0.00197
	B1	-0.00006	-0.00006	-0.00006
	B1	0.00008	0.00009	0.00009
	B1	0.00058	0.00064	0.00071
	C0	0.00167	0.00172	0.00178
	C0	0.00000	0.00000	0.00001
	C0	0.00012	0.00012	0.00012
	C0	0.00052	0.00057	0.00064

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X0P7H7H	**(A1 * B0 * B1 * C0 * Y)**	-0.00010	-0.00009	-0.00006
	(A1 * B0 * B1 * C0 * Y)	-0.00003	-0.00003	-0.00002
	(A1 * B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C0 * Y)	0.00023	0.00023	0.00024
	(A1 * B0 * B1 * !C0 * Y)	-0.00010	-0.00009	-0.00007
	(A1 * B0 * B1 * !C0 * Y)	-0.00003	-0.00002	-0.00002
	(A1 * B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C0 * Y)	0.00023	0.00023	0.00024
	(A1 * !B1 * C0 * Y)	-0.00010	-0.00008	-0.00006
	(A1 * !B1 * C0 * Y)	-0.00003	-0.00002	-0.00002
	(A1 * !B1 * C0 * Y)	0.00000	0.00000	0.00001
	(A1 * !B1 * C0 * Y)	0.00023	0.00023	0.00024
	(A1 * !B0 * B1 * C0 * Y)	-0.00010	-0.00008	-0.00006
	(A1 * !B0 * B1 * C0 * Y)	-0.00003	-0.00002	-0.00002
	(A1 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00001
	(A1 * !B0 * B1 * C0 * Y)	0.00023	0.00023	0.00024
	(!A1 * B0 * B1 * Y)	-0.00014	-0.00014	-0.00014
	(!A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * Y)	0.00020	0.00020	0.00020
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	-0.00014	-0.00014	-0.00014
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	0.00020	0.00020	0.00020
	(!A1 * !B1 * !C0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A1 * !B1 * !C0 * !Y)	-0.00001	-0.00001	0.00000
	(!A1 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C0 * !Y)	0.00018	0.00018	0.00018
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00018	0.00018	0.00018

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X0P7H7H	**(A1 * B0 * B1 * C0 * Y)**	0.00009	0.00010	0.00010
	(A1 * B0 * B1 * C0 * Y)	0.00002	0.00003	0.00003
	(A1 * B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * C0 * Y)	-0.00023	-0.00023	-0.00023
	(A1 * B0 * B1 * !C0 * Y)	0.00010	0.00010	0.00010
	(A1 * B0 * B1 * !C0 * Y)	0.00002	0.00003	0.00003
	(A1 * B0 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * !C0 * Y)	-0.00023	-0.00023	-0.00023
	(A1 * !B1 * C0 * Y)	0.00009	0.00010	0.00010
	(A1 * !B1 * C0 * Y)	0.00002	0.00002	0.00003
	(A1 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B1 * C0 * Y)	-0.00023	-0.00023	-0.00023
	(A1 * !B0 * B1 * C0 * Y)	0.00010	0.00010	0.00010
	(A1 * !B0 * B1 * C0 * Y)	0.00002	0.00002	0.00003
	(A1 * !B0 * B1 * C0 * Y)	-0.00000	-0.00000	0.00001
	(A1 * !B0 * B1 * C0 * Y)	-0.00023	-0.00023	-0.00023
	(!A1 * B0 * B1 * Y)	0.00014	0.00014	0.00014
	(!A1 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * Y)	-0.00020	-0.00019	-0.00019
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	0.00014	0.00014	0.00015
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	-0.00020	-0.00020	-0.00019
	(!A1 * !B1 * !C0 * !Y)	0.00017	0.00017	0.00018
	(!A1 * !B1 * !C0 * !Y)	-0.00000	0.00001	0.00001
	(!A1 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C0 * !Y)	-0.00018	-0.00017	-0.00016
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00017	0.00017	0.00018
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00018	-0.00017	-0.00015

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X0P7H7H	**(A0 * B0 * B1 * C0 * Y)**	-0.00010	-0.00008	-0.00006
	(A0 * B0 * B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * C0 * Y)	0.00025	0.00026	0.00026
	(A0 * B0 * B1 * !C0 * Y)	-0.00010	-0.00008	-0.00007
	(A0 * B0 * B1 * !C0 * Y)	-0.00003	-0.00002	-0.00002
	(A0 * B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !C0 * Y)	0.00025	0.00026	0.00026
	(A0 * !B1 * C0 * Y)	-0.00009	-0.00008	-0.00006
	(A0 * !B1 * C0 * Y)	-0.00003	-0.00002	-0.00002
	(A0 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !B1 * C0 * Y)	0.00026	0.00026	0.00026
	(A0 * !B0 * B1 * C0 * Y)	-0.00009	-0.00008	-0.00006
	(A0 * !B0 * B1 * C0 * Y)	-0.00003	-0.00002	-0.00002
	(A0 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00001
	(A0 * !B0 * B1 * C0 * Y)	0.00025	0.00026	0.00026
	(!A0 * B0 * B1 * C0 * Y)	-0.00014	-0.00013	-0.00013
	(!A0 * B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * C0 * Y)	0.00022	0.00022	0.00023
	(!A0 * B0 * B1 * !C0 * Y)	-0.00014	-0.00014	-0.00013
	(!A0 * B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * !C0 * Y)	0.00022	0.00022	0.00023
	(!A0 * !B1 * C0 * Y)	-0.00014	-0.00014	-0.00013
	(!A0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * C0 * Y)	0.00022	0.00022	0.00023
	(!A0 * !B1 * !C0 * !Y)	-0.00023	-0.00023	-0.00022
	(!A0 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * !C0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !B1 * !C0 * !Y)	0.00006	0.00007	0.00007
	(!A0 * !B0 * B1 * C0 * Y)	-0.00014	-0.00013	-0.00013
	(!A0 * !B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * B1 * C0 * Y)	0.00022	0.00022	0.00023
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00023	-0.00023	-0.00022
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00006	0.00007	0.00007

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X0P7H7H	**(A0 * B0 * B1 * C0 * Y)**	0.00009	0.00010	0.00010
	(A0 * B0 * B1 * C0 * Y)	0.00002	0.00002	0.00002
	(A0 * B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * C0 * Y)	-0.00025	-0.00025	-0.00025
	(A0 * B0 * B1 * !C0 * Y)	0.00009	0.00010	0.00010
	(A0 * B0 * B1 * !C0 * Y)	0.00002	0.00002	0.00003
	(A0 * B0 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * !C0 * Y)	-0.00025	-0.00025	-0.00025
	(A0 * !B1 * C0 * Y)	0.00009	0.00009	0.00009
	(A0 * !B1 * C0 * Y)	0.00002	0.00002	0.00003
	(A0 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B1 * C0 * Y)	-0.00026	-0.00026	-0.00025
	(A0 * !B0 * B1 * C0 * Y)	0.00009	0.00009	0.00009
	(A0 * !B0 * B1 * C0 * Y)	0.00002	0.00002	0.00003
	(A0 * !B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * B1 * C0 * Y)	-0.00026	-0.00025	-0.00023
	(!A0 * B0 * B1 * C0 * Y)	0.00013	0.00014	0.00014
	(!A0 * B0 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * C0 * Y)	-0.00023	-0.00022	-0.00021
	(!A0 * B0 * B1 * !C0 * Y)	0.00013	0.00014	0.00014
	(!A0 * B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * !C0 * Y)	-0.00023	-0.00022	-0.00021
	(!A0 * !B1 * C0 * Y)	0.00013	0.00014	0.00014
	(!A0 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * C0 * Y)	-0.00023	-0.00022	-0.00021
	(!A0 * !B1 * !C0 * !Y)	0.00023	0.00023	0.00023
	(!A0 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * !C0 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * !B1 * !C0 * !Y)	-0.00007	-0.00007	-0.00006
	(!A0 * !B0 * B1 * C0 * Y)	0.00013	0.00014	0.00014
	(!A0 * !B0 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * B1 * C0 * Y)	-0.00022	-0.00022	-0.00021
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00023	0.00023	0.00023
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00007	-0.00007	-0.00006

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X0P7H7H	**(A0 * A1 * B1 * C0 * Y)**	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * C0 * Y)	-0.00007	-0.00006	-0.00006
	(A0 * A1 * B1 * C0 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * B1 * C0 * Y)	0.00022	0.00022	0.00023
	(A0 * A1 * B1 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * !C0 * Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * B1 * !C0 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * B1 * !C0 * Y)	0.00023	0.00023	0.00023
	(A0 * A1 * !B1 * C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * Y)	-0.00006	-0.00006	-0.00006
	(A0 * A1 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * C0 * Y)	0.00019	0.00020	0.00020
	(A0 * A1 * !B1 * !C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !C0 * Y)	0.00020	0.00020	0.00020
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	-0.00019	-0.00019	-0.00019
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	0.00017	0.00018	0.00018
	(!A1 * B1 * C0 * Y)	-0.00015	-0.00014	-0.00011
	(!A1 * B1 * C0 * Y)	-0.00003	-0.00002	-0.00002
	(!A1 * B1 * C0 * Y)	0.00000	0.00000	0.00001
	(!A1 * B1 * C0 * Y)	0.00021	0.00021	0.00022
	(!A1 * !B1 * !C0 * !Y)	-0.00021	-0.00021	-0.00021
	(!A1 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C0 * !Y)	0.00016	0.00016	0.00017
	(!A0 * A1 * B1 * C0 * Y)	-0.00015	-0.00014	-0.00011
	(!A0 * A1 * B1 * C0 * Y)	-0.00003	-0.00002	-0.00002
	(!A0 * A1 * B1 * C0 * Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * B1 * C0 * Y)	0.00021	0.00021	0.00022
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00021	-0.00021	-0.00021
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00016	0.00016	0.00017

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X0P7H7H	**(A0 * A1 * B1 * C0 * Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * Y)	0.00006	0.00006	0.00007
	(A0 * A1 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * C0 * Y)	-0.00023	-0.00022	-0.00022
	(A0 * A1 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * Y)	0.00005	0.00005	0.00005
	(A0 * A1 * B1 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * !C0 * Y)	-0.00023	-0.00022	-0.00022
	(A0 * A1 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * Y)	0.00006	0.00006	0.00006
	(A0 * A1 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * C0 * Y)	-0.00020	-0.00019	-0.00018
	(A0 * A1 * !B1 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * Y)	0.00005	0.00005	0.00005
	(A0 * A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C0 * Y)	-0.00020	-0.00019	-0.00018
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	0.00019	0.00019	0.00019
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	-0.00018	-0.00017	-0.00016
	(!A1 * B1 * C0 * Y)	0.00015	0.00015	0.00015
	(!A1 * B1 * C0 * Y)	0.00002	0.00002	0.00003
	(!A1 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B1 * C0 * Y)	-0.00021	-0.00021	-0.00021
	(!A1 * !B1 * !C0 * !Y)	0.00021	0.00021	0.00022
	(!A1 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C0 * !Y)	-0.00016	-0.00015	-0.00015
	(!A0 * A1 * B1 * C0 * Y)	0.00015	0.00015	0.00015
	(!A0 * A1 * B1 * C0 * Y)	0.00002	0.00002	0.00003
	(!A0 * A1 * B1 * C0 * Y)	-0.00001	-0.00000	-0.00000
	(!A0 * A1 * B1 * C0 * Y)	-0.00021	-0.00021	-0.00021
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00021	0.00021	0.00022
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00016	-0.00015	-0.00015

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X0P7H7H	**(A0 * A1 * B0 * C0 * Y)**	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * C0 * Y)	-0.00006	-0.00006	-0.00005
	(A0 * A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * Y)	0.00025	0.00025	0.00025
	(A0 * A1 * B0 * !C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * Y)	0.00025	0.00025	0.00025
	(A0 * A1 * !B0 * C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * C0 * Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * !B0 * C0 * Y)	0.00001	0.00002	0.00002
	(A0 * A1 * !B0 * C0 * Y)	0.00021	0.00022	0.00022
	(A0 * A1 * !B0 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * !B0 * !C0 * Y)	0.00001	0.00001	0.00002
	(A0 * A1 * !B0 * !C0 * Y)	0.00022	0.00022	0.00022
	(!A1 * B0 * C0 * Y)	-0.00012	-0.00011	-0.00009
	(!A1 * B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * C0 * Y)	0.00024	0.00024	0.00025
	(!A1 * !B0 * C0 * Y)	-0.00016	-0.00016	-0.00015
	(!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * Y)	0.00020	0.00020	0.00021
	(!A1 * !B0 * !C0 * !Y)	-0.00027	-0.00026	-0.00026
	(!A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * !Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * !C0 * !Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * B0 * C0 * Y)	-0.00012	-0.00011	-0.00009
	(!A0 * A1 * B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * B0 * C0 * Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * B0 * C0 * Y)	0.00024	0.00024	0.00024
	(!A0 * A1 * !B0 * C0 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * C0 * Y)	0.00020	0.00020	0.00021
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00027	-0.00026	-0.00026
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00003	0.00003	0.00003

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X0P7H7H	**(A0 * A1 * B0 * C0 * Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * Y)	0.00005	0.00006	0.00006
	(A0 * A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * C0 * Y)	-0.00025	-0.00025	-0.00025
	(A0 * A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * B0 * !C0 * Y)	0.00004	0.00004	0.00005
	(A0 * A1 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * !C0 * Y)	-0.00025	-0.00025	-0.00025
	(A0 * A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * C0 * Y)	0.00005	0.00005	0.00005
	(A0 * A1 * !B0 * C0 * Y)	-0.00002	-0.00001	-0.00001
	(A0 * A1 * !B0 * C0 * Y)	-0.00022	-0.00021	-0.00020
	(A0 * A1 * !B0 * !C0 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * !B0 * !C0 * Y)	0.00004	0.00004	0.00004
	(A0 * A1 * !B0 * !C0 * Y)	-0.00002	-0.00001	-0.00001
	(A0 * A1 * !B0 * !C0 * Y)	-0.00022	-0.00021	-0.00021
	(!A1 * B0 * C0 * Y)	0.00012	0.00012	0.00012
	(!A1 * B0 * C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * C0 * Y)	-0.00024	-0.00024	-0.00024
	(!A1 * !B0 * C0 * Y)	0.00016	0.00016	0.00016
	(!A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * Y)	-0.00021	-0.00020	-0.00019
	(!A1 * !B0 * !C0 * !Y)	0.00026	0.00026	0.00027
	(!A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A1 * !B0 * !C0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * A1 * B0 * C0 * Y)	0.00012	0.00012	0.00012
	(!A0 * A1 * B0 * C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * C0 * Y)	-0.00024	-0.00024	-0.00024
	(!A0 * A1 * !B0 * C0 * Y)	0.00016	0.00016	0.00016
	(!A0 * A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * C0 * Y)	-0.00021	-0.00020	-0.00019
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00026	0.00026	0.00027
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00003	-0.00003	-0.00002

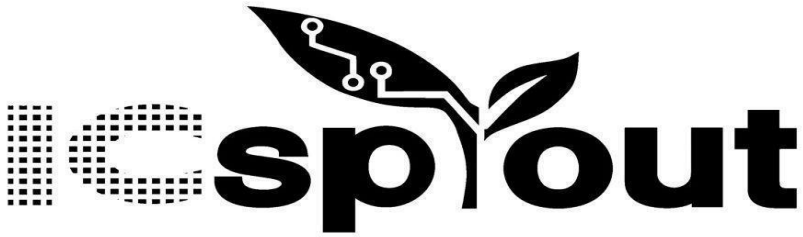
Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO221X0P7H7H	(A1 * B0 * B1 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * Y)	0.00031	0.00032	0.00032
	(A0 * A1 * !B1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * Y)	0.00031	0.00032	0.00032
	(A0 * A1 * !B0 * B1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * B1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * Y)	0.00031	0.00032	0.00032
	(!A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * Y)	0.00031	0.00032	0.00032

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO221X0P7H7H	(A1 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * Y)	0.00003	0.00003	0.00003
	(A1 * B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * Y)	-0.00032	-0.00031	-0.00031
	(A0 * A1 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * Y)	0.00003	0.00003	0.00004
	(A0 * A1 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B1 * Y)	-0.00031	-0.00031	-0.00031
	(A0 * A1 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * Y)	0.00003	0.00003	0.00004
	(A0 * A1 * !B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B0 * B1 * Y)	-0.00031	-0.00031	-0.00031
	(!A1 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * Y)	0.00003	0.00003	0.00003
	(!A1 * B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * Y)	-0.00032	-0.00031	-0.00031

AO221X1H7H



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

Truth Table

INPUT					OUTPUT
A0	A1	B0	B1	C0	Y
0	x	0	x	0	0
0	x	x	x	1	1
0	x	1	0	0	0
x	x	1	1	x	1
1	0	0	x	0	0
1	0	x	x	1	1
1	0	1	0	0	0
1	1	x	x	x	1

Footprint

Cell Name	Area
AO221X1H7H	3.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	A1	B0	B1	C0	Y
AO221X1H7H	0.00075	0.00080	0.00079	0.00088	0.00089	0.04142

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO221X1H7H	0.00000	0.02006	0.02137

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO221X1H7H	A0->Y (RR)	0.09620	0.27936	0.72897
	A1->Y (RR)	0.09372	0.27691	0.72341
	B0->Y (RR)	0.09021	0.27046	0.71305
	B1->Y (RR)	0.08836	0.26794	0.70581
	C0->Y (RR)	0.05487	0.22869	0.65310

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO221X1H7H	A0->Y (FF)	0.18986	0.35354	0.73475
	A1->Y (FF)	0.17993	0.34126	0.71839
	B0->Y (FF)	0.18054	0.34473	0.73438
	B1->Y (FF)	0.17111	0.33222	0.71589
	C0->Y (FF)	0.16080	0.31750	0.69395

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO221X1H7H	A0	0.00044	0.00050	0.00055
	A0	0.00014	0.00014	0.00014
	A0	-0.00009	-0.00008	-0.00007
	A0	0.00206	0.00212	0.00217
	A1	0.00044	0.00049	0.00055
	A1	0.00013	0.00014	0.00014
	A1	-0.00004	-0.00004	-0.00003
	A1	0.00191	0.00196	0.00203
	B0	0.00043	0.00049	0.00055
	B0	0.00002	0.00006	0.00010
	B0	-0.00008	-0.00008	-0.00007
	B0	0.00182	0.00188	0.00194
	B1	0.00044	0.00050	0.00057
	B1	0.00004	0.00005	0.00007
	B1	-0.00004	-0.00004	-0.00003
	B1	0.00166	0.00172	0.00179
	C0	0.00042	0.00049	0.00054
	C0	-0.00001	-0.00001	0.00000
	C0	-0.00004	-0.00004	-0.00004
	C0	0.00160	0.00167	0.00172

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO221X1H7H	A0	0.00235	0.00240	0.00245
	A0	-0.00013	-0.00013	-0.00012
	A0	0.00012	0.00012	0.00012
	A0	0.00064	0.00069	0.00075
	A1	0.00221	0.00227	0.00234
	A1	-0.00013	-0.00013	-0.00013
	A1	0.00007	0.00008	0.00009
	A1	0.00063	0.00069	0.00076
	B0	0.00204	0.00208	0.00214
	B0	-0.00007	-0.00006	-0.00002
	B0	0.00011	0.00012	0.00012
	B0	0.00064	0.00069	0.00074
	B1	0.00188	0.00194	0.00201
	B1	-0.00007	-0.00005	-0.00004
	B1	0.00007	0.00008	0.00008
	B1	0.00063	0.00069	0.00076
	C0	0.00170	0.00176	0.00183
	C0	0.00001	0.00001	0.00002
	C0	0.00012	0.00012	0.00012
	C0	0.00057	0.00062	0.00069

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X1H7H	**(A1 * B0 * B1 * C0 * Y)**	-0.00010	-0.00009	-0.00006
	(A1 * B0 * B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C0 * Y)	0.00023	0.00023	0.00024
	(A1 * B0 * B1 * !C0 * Y)	-0.00010	-0.00009	-0.00006
	(A1 * B0 * B1 * !C0 * Y)	-0.00003	-0.00003	-0.00002
	(A1 * B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C0 * Y)	0.00023	0.00023	0.00024
	(A1 * !B1 * C0 * Y)	-0.00010	-0.00008	-0.00006
	(A1 * !B1 * C0 * Y)	-0.00003	-0.00002	-0.00002
	(A1 * !B1 * C0 * Y)	0.00000	0.00000	0.00001
	(A1 * !B1 * C0 * Y)	0.00023	0.00023	0.00024
	(A1 * !B0 * B1 * C0 * Y)	-0.00010	-0.00008	-0.00006
	(A1 * !B0 * B1 * C0 * Y)	-0.00003	-0.00003	-0.00002
	(A1 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00001
	(A1 * !B0 * B1 * C0 * Y)	0.00023	0.00023	0.00024
	(!A1 * B0 * B1 * Y)	-0.00014	-0.00014	-0.00014
	(!A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * Y)	0.00020	0.00020	0.00020
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	-0.00015	-0.00014	-0.00014
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	0.00020	0.00020	0.00020
	(!A1 * !B1 * !C0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A1 * !B1 * !C0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A1 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C0 * !Y)	0.00018	0.00018	0.00018
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00018	0.00018	0.00018

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X1H7H	**(A1 * B0 * B1 * C0 * Y)**	0.00010	0.00010	0.00010
	(A1 * B0 * B1 * C0 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * C0 * Y)	-0.00023	-0.00023	-0.00023
	(A1 * B0 * B1 * !C0 * Y)	0.00009	0.00010	0.00010
	(A1 * B0 * B1 * !C0 * Y)	0.00002	0.00003	0.00003
	(A1 * B0 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * !C0 * Y)	-0.00023	-0.00023	-0.00023
	(A1 * !B1 * C0 * Y)	0.00009	0.00010	0.00010
	(A1 * !B1 * C0 * Y)	0.00002	0.00002	0.00003
	(A1 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B1 * C0 * Y)	-0.00023	-0.00023	-0.00023
	(A1 * !B0 * B1 * C0 * Y)	0.00009	0.00010	0.00010
	(A1 * !B0 * B1 * C0 * Y)	0.00002	0.00003	0.00003
	(A1 * !B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * B1 * C0 * Y)	-0.00023	-0.00023	-0.00023
	(!A1 * B0 * B1 * Y)	0.00014	0.00014	0.00015
	(!A1 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * Y)	-0.00020	-0.00019	-0.00019
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	0.00014	0.00014	0.00015
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	-0.00020	-0.00019	-0.00019
	(!A1 * !B1 * !C0 * !Y)	0.00017	0.00017	0.00018
	(!A1 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C0 * !Y)	-0.00018	-0.00017	-0.00015
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00017	0.00017	0.00018
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00018	-0.00017	-0.00015

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X1H7H	**(A0 * B0 * B1 * C0 * Y)**	-0.00010	-0.00008	-0.00006
	(A0 * B0 * B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * C0 * Y)	0.00025	0.00026	0.00026
	(A0 * B0 * B1 * !C0 * Y)	-0.00010	-0.00008	-0.00007
	(A0 * B0 * B1 * !C0 * Y)	-0.00003	-0.00002	-0.00002
	(A0 * B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !C0 * Y)	0.00025	0.00026	0.00026
	(A0 * !B1 * C0 * Y)	-0.00009	-0.00008	-0.00006
	(A0 * !B1 * C0 * Y)	-0.00003	-0.00002	-0.00002
	(A0 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !B1 * C0 * Y)	0.00026	0.00026	0.00026
	(A0 * !B0 * B1 * C0 * Y)	-0.00009	-0.00008	-0.00006
	(A0 * !B0 * B1 * C0 * Y)	-0.00003	-0.00002	-0.00002
	(A0 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00001
	(A0 * !B0 * B1 * C0 * Y)	0.00025	0.00026	0.00026
	(!A0 * B0 * B1 * C0 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * C0 * Y)	0.00022	0.00022	0.00023
	(!A0 * B0 * B1 * !C0 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * !C0 * Y)	0.00022	0.00022	0.00023
	(!A0 * !B1 * C0 * Y)	-0.00014	-0.00014	-0.00013
	(!A0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * C0 * Y)	0.00022	0.00022	0.00023
	(!A0 * !B1 * !C0 * !Y)	-0.00023	-0.00023	-0.00022
	(!A0 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * !C0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !B1 * !C0 * !Y)	0.00006	0.00007	0.00007
	(!A0 * !B0 * B1 * C0 * Y)	-0.00014	-0.00014	-0.00013
	(!A0 * !B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * B1 * C0 * Y)	0.00022	0.00022	0.00023
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00023	-0.00023	-0.00023
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00006	0.00007	0.00007

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X1H7H	**(A0 * B0 * B1 * C0 * Y)**	0.00009	0.00010	0.00010
	(A0 * B0 * B1 * C0 * Y)	0.00002	0.00002	0.00002
	(A0 * B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * C0 * Y)	-0.00025	-0.00025	-0.00025
	(A0 * B0 * B1 * !C0 * Y)	0.00009	0.00010	0.00010
	(A0 * B0 * B1 * !C0 * Y)	0.00002	0.00002	0.00003
	(A0 * B0 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * !C0 * Y)	-0.00025	-0.00025	-0.00025
	(A0 * !B1 * C0 * Y)	0.00009	0.00009	0.00009
	(A0 * !B1 * C0 * Y)	0.00002	0.00002	0.00003
	(A0 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B1 * C0 * Y)	-0.00026	-0.00026	-0.00026
	(A0 * !B0 * B1 * C0 * Y)	0.00009	0.00009	0.00009
	(A0 * !B0 * B1 * C0 * Y)	0.00002	0.00002	0.00003
	(A0 * !B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * B1 * C0 * Y)	-0.00026	-0.00026	-0.00025
	(!A0 * B0 * B1 * C0 * Y)	0.00013	0.00014	0.00014
	(!A0 * B0 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * C0 * Y)	-0.00023	-0.00022	-0.00021
	(!A0 * B0 * B1 * !C0 * Y)	0.00013	0.00013	0.00014
	(!A0 * B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00002
	(!A0 * B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * !C0 * Y)	-0.00022	-0.00022	-0.00020
	(!A0 * !B1 * C0 * Y)	0.00013	0.00014	0.00014
	(!A0 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * C0 * Y)	-0.00022	-0.00022	-0.00021
	(!A0 * !B1 * !C0 * !Y)	0.00023	0.00023	0.00023
	(!A0 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * !C0 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * !B1 * !C0 * !Y)	-0.00007	-0.00007	-0.00006
	(!A0 * !B0 * B1 * C0 * Y)	0.00013	0.00014	0.00014
	(!A0 * !B0 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * B1 * C0 * Y)	-0.00022	-0.00022	-0.00021
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00023	0.00023	0.00023
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00007	-0.00007	-0.00006

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X1H7H	**(A0 * A1 * B1 * C0 * Y)**	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * C0 * Y)	-0.00007	-0.00006	-0.00006
	(A0 * A1 * B1 * C0 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * B1 * C0 * Y)	0.00022	0.00022	0.00023
	(A0 * A1 * B1 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * !C0 * Y)	-0.00005	-0.00005	-0.00004
	(A0 * A1 * B1 * !C0 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * B1 * !C0 * Y)	0.00022	0.00023	0.00023
	(A0 * A1 * !B1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B1 * C0 * Y)	-0.00006	-0.00006	-0.00006
	(A0 * A1 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * C0 * Y)	0.00019	0.00020	0.00020
	(A0 * A1 * !B1 * !C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !C0 * Y)	0.00020	0.00020	0.00020
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	-0.00019	-0.00019	-0.00019
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	0.00017	0.00018	0.00018
	(!A1 * B1 * C0 * Y)	-0.00015	-0.00014	-0.00011
	(!A1 * B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B1 * C0 * Y)	0.00021	0.00021	0.00022
	(!A1 * !B1 * !C0 * !Y)	-0.00021	-0.00021	-0.00021
	(!A1 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C0 * !Y)	0.00016	0.00016	0.00017
	(!A0 * A1 * B1 * C0 * Y)	-0.00015	-0.00014	-0.00011
	(!A0 * A1 * B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * B1 * C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * B1 * C0 * Y)	0.00021	0.00021	0.00022
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00021	-0.00021	-0.00021
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00016	0.00016	0.00017

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X1H7H	**(A0 * A1 * B1 * C0 * Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * Y)	0.00006	0.00006	0.00007
	(A0 * A1 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * C0 * Y)	-0.00023	-0.00022	-0.00022
	(A0 * A1 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * Y)	0.00005	0.00005	0.00005
	(A0 * A1 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * !C0 * Y)	-0.00023	-0.00022	-0.00022
	(A0 * A1 * !B1 * C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * Y)	0.00006	0.00006	0.00006
	(A0 * A1 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * C0 * Y)	-0.00020	-0.00019	-0.00018
	(A0 * A1 * !B1 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * Y)	0.00005	0.00005	0.00005
	(A0 * A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C0 * Y)	-0.00020	-0.00019	-0.00018
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	0.00019	0.00019	0.00019
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	-0.00018	-0.00017	-0.00016
	(!A1 * B1 * C0 * Y)	0.00015	0.00015	0.00015
	(!A1 * B1 * C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * B1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * B1 * C0 * Y)	-0.00021	-0.00021	-0.00021
	(!A1 * !B1 * !C0 * !Y)	0.00021	0.00021	0.00022
	(!A1 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C0 * !Y)	-0.00016	-0.00015	-0.00015
	(!A0 * A1 * B1 * C0 * Y)	0.00015	0.00015	0.00015
	(!A0 * A1 * B1 * C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * B1 * C0 * Y)	-0.00001	-0.00000	-0.00000
	(!A0 * A1 * B1 * C0 * Y)	-0.00021	-0.00021	-0.00020
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00021	0.00021	0.00022
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00016	-0.00015	-0.00015

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X1H7H	**(A0 * A1 * B0 * C0 * Y)**	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * C0 * Y)	-0.00006	-0.00006	-0.00005
	(A0 * A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * Y)	0.00025	0.00025	0.00025
	(A0 * A1 * B0 * !C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * Y)	0.00025	0.00025	0.00025
	(A0 * A1 * !B0 * C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * C0 * Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * !B0 * C0 * Y)	0.00001	0.00002	0.00002
	(A0 * A1 * !B0 * C0 * Y)	0.00021	0.00022	0.00022
	(A0 * A1 * !B0 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * !B0 * !C0 * Y)	0.00001	0.00001	0.00002
	(A0 * A1 * !B0 * !C0 * Y)	0.00022	0.00022	0.00022
	(!A1 * B0 * C0 * Y)	-0.00012	-0.00011	-0.00009
	(!A1 * B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * C0 * Y)	0.00024	0.00024	0.00025
	(!A1 * !B0 * C0 * Y)	-0.00016	-0.00016	-0.00015
	(!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * Y)	0.00020	0.00020	0.00021
	(!A1 * !B0 * !C0 * !Y)	-0.00027	-0.00026	-0.00026
	(!A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * !Y)	0.00002	0.00003	0.00003
	(!A1 * !B0 * !C0 * !Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * B0 * C0 * Y)	-0.00012	-0.00011	-0.00009
	(!A0 * A1 * B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * B0 * C0 * Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * B0 * C0 * Y)	0.00024	0.00024	0.00024
	(!A0 * A1 * !B0 * C0 * Y)	-0.00016	-0.00016	-0.00015
	(!A0 * A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * !B0 * C0 * Y)	0.00020	0.00020	0.00021
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00027	-0.00026	-0.00026
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00003	0.00003	0.00003

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X1H7H	**(A0 * A1 * B0 * C0 * Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * Y)	0.00005	0.00006	0.00006
	(A0 * A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * C0 * Y)	-0.00025	-0.00025	-0.00025
	(A0 * A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * B0 * !C0 * Y)	0.00004	0.00004	0.00005
	(A0 * A1 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * !C0 * Y)	-0.00025	-0.00025	-0.00025
	(A0 * A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * C0 * Y)	0.00005	0.00005	0.00005
	(A0 * A1 * !B0 * C0 * Y)	-0.00002	-0.00001	-0.00001
	(A0 * A1 * !B0 * C0 * Y)	-0.00022	-0.00021	-0.00020
	(A0 * A1 * !B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * Y)	0.00004	0.00004	0.00005
	(A0 * A1 * !B0 * !C0 * Y)	-0.00002	-0.00001	-0.00001
	(A0 * A1 * !B0 * !C0 * Y)	-0.00022	-0.00021	-0.00020
	(!A1 * B0 * C0 * Y)	0.00012	0.00012	0.00012
	(!A1 * B0 * C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * C0 * Y)	-0.00024	-0.00024	-0.00024
	(!A1 * !B0 * C0 * Y)	0.00016	0.00016	0.00016
	(!A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * Y)	-0.00021	-0.00020	-0.00019
	(!A1 * !B0 * !C0 * !Y)	0.00026	0.00026	0.00027
	(!A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A1 * !B0 * !C0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * A1 * B0 * C0 * Y)	0.00012	0.00012	0.00012
	(!A0 * A1 * B0 * C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * C0 * Y)	-0.00024	-0.00024	-0.00024
	(!A0 * A1 * !B0 * C0 * Y)	0.00016	0.00016	0.00016
	(!A0 * A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * C0 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * A1 * !B0 * C0 * Y)	-0.00021	-0.00020	-0.00019
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00026	0.00026	0.00027
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00003	-0.00003	-0.00002

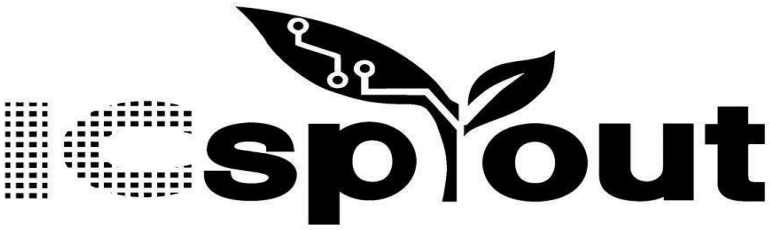
Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO221X1H7H	(A1 * B0 * B1 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * Y)	0.00031	0.00032	0.00032
	(A0 * A1 * !B1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * Y)	0.00031	0.00032	0.00032
	(A0 * A1 * !B0 * B1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * B1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * Y)	0.00031	0.00032	0.00032
	(!A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * Y)	0.00031	0.00032	0.00032

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO221X1H7H	(A1 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * Y)	0.00003	0.00003	0.00004
	(A1 * B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * Y)	-0.00032	-0.00031	-0.00031
	(A0 * A1 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B1 * Y)	-0.00031	-0.00031	-0.00031
	(A0 * A1 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * Y)	0.00003	0.00003	0.00004
	(A0 * A1 * !B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B0 * B1 * Y)	-0.00031	-0.00031	-0.00031
	(!A1 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * Y)	0.00003	0.00003	0.00003
	(!A1 * B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * Y)	-0.00031	-0.00031	-0.00031

AO221X1P4H7H



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

Truth Table

INPUT					OUTPUT
A0	A1	B0	B1	C0	Y
0	x	0	x	0	0
0	x	x	x	1	1
0	x	1	0	0	0
x	x	1	1	x	1
1	0	0	x	0	0
1	0	x	x	1	1
1	0	1	0	0	0
1	1	x	x	x	1

Footprint

Cell Name	Area
AO221X1P4H7H	3.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	A1	B0	B1	C0	Y
AO221X1P4H7H	0.00076	0.00080	0.00079	0.00088	0.00089	0.04718

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO221X1P4H7H	0.00000	0.02400	0.02679

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO221X1P4H7H	A0->Y (RR)	0.09675	0.28123	0.73345
	A1->Y (RR)	0.09436	0.27886	0.72790
	B0->Y (RR)	0.09076	0.27230	0.71703
	B1->Y (RR)	0.08888	0.26999	0.71086
	C0->Y (RR)	0.05456	0.22970	0.65693

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO221X1P4H7H	A0->Y (FF)	0.19302	0.35954	0.74517
	A1->Y (FF)	0.18310	0.34729	0.72893
	B0->Y (FF)	0.18365	0.35084	0.74540
	B1->Y (FF)	0.17443	0.33853	0.72741
	C0->Y (FF)	0.16396	0.32366	0.70582

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO221X1P4H7H	A0	0.00049	0.00055	0.00061
	A0	0.00013	0.00013	0.00013
	A0	-0.00008	-0.00007	-0.00006
	A0	0.00210	0.00216	0.00222
	A1	0.00048	0.00054	0.00061
	A1	0.00013	0.00013	0.00013
	A1	-0.00004	-0.00004	-0.00002
	A1	0.00195	0.00201	0.00208
	B0	0.00048	0.00054	0.00060
	B0	0.00003	0.00006	0.00009
	B0	-0.00008	-0.00007	-0.00005
	B0	0.00186	0.00193	0.00199
	B1	0.00049	0.00055	0.00062
	B1	0.00004	0.00005	0.00007
	B1	-0.00004	-0.00004	-0.00002
	B1	0.00170	0.00177	0.00184
	C0	0.00046	0.00054	0.00059
	C0	-0.00002	-0.00002	-0.00000
	C0	-0.00004	-0.00004	-0.00003
	C0	0.00164	0.00171	0.00177

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO221X1P4H7H	A0	0.00240	0.00245	0.00251
	A0	-0.00013	-0.00013	-0.00012
	A0	0.00011	0.00011	0.00012
	A0	0.00070	0.00075	0.00081
	A1	0.00226	0.00233	0.00239
	A1	-0.00013	-0.00012	-0.00012
	A1	0.00007	0.00007	0.00009
	A1	0.00068	0.00075	0.00082
	B0	0.00209	0.00214	0.00219
	B0	-0.00006	-0.00005	-0.00003
	B0	0.00011	0.00011	0.00011
	B0	0.00070	0.00075	0.00080
	B1	0.00193	0.00200	0.00207
	B1	-0.00005	-0.00005	-0.00004
	B1	0.00006	0.00007	0.00008
	B1	0.00068	0.00075	0.00082
	C0	0.00175	0.00181	0.00188
	C0	0.00001	0.00002	0.00003
	C0	0.00011	0.00011	0.00011
	C0	0.00062	0.00068	0.00075

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X1P4H7H	**(A1 * B0 * B1 * C0 * Y)**	-0.00010	-0.00009	-0.00006
	(A1 * B0 * B1 * C0 * Y)	-0.00003	-0.00002	-0.00002
	(A1 * B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C0 * Y)	0.00023	0.00023	0.00024
	(A1 * B0 * B1 * !C0 * Y)	-0.00010	-0.00009	-0.00006
	(A1 * B0 * B1 * !C0 * Y)	-0.00003	-0.00002	-0.00002
	(A1 * B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C0 * Y)	0.00023	0.00023	0.00024
	(A1 * !B1 * C0 * Y)	-0.00010	-0.00008	-0.00006
	(A1 * !B1 * C0 * Y)	-0.00003	-0.00003	-0.00002
	(A1 * !B1 * C0 * Y)	0.00000	0.00000	0.00001
	(A1 * !B1 * C0 * Y)	0.00023	0.00024	0.00024
	(A1 * !B0 * B1 * C0 * Y)	-0.00010	-0.00008	-0.00006
	(A1 * !B0 * B1 * C0 * Y)	-0.00003	-0.00002	-0.00002
	(A1 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00001
	(A1 * !B0 * B1 * C0 * Y)	0.00023	0.00024	0.00024
	(!A1 * B0 * B1 * Y)	-0.00014	-0.00014	-0.00014
	(!A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * Y)	0.00020	0.00020	0.00020
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	-0.00015	-0.00014	-0.00014
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	0.00020	0.00020	0.00020
	(!A1 * !B1 * !C0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A1 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C0 * !Y)	0.00018	0.00018	0.00018
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00018	0.00018	0.00018

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X1P4H7H	**(A1 * B0 * B1 * C0 * Y)**	0.00010	0.00010	0.00010
	(A1 * B0 * B1 * C0 * Y)	0.00002	0.00003	0.00003
	(A1 * B0 * B1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * C0 * Y)	-0.00023	-0.00023	-0.00023
	(A1 * B0 * B1 * !C0 * Y)	0.00009	0.00010	0.00010
	(A1 * B0 * B1 * !C0 * Y)	0.00002	0.00002	0.00003
	(A1 * B0 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * !C0 * Y)	-0.00023	-0.00023	-0.00023
	(A1 * !B1 * C0 * Y)	0.00009	0.00010	0.00010
	(A1 * !B1 * C0 * Y)	0.00002	0.00003	0.00003
	(A1 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B1 * C0 * Y)	-0.00024	-0.00023	-0.00023
	(A1 * !B0 * B1 * C0 * Y)	0.00009	0.00010	0.00010
	(A1 * !B0 * B1 * C0 * Y)	0.00002	0.00002	0.00003
	(A1 * !B0 * B1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * B1 * C0 * Y)	-0.00024	-0.00023	-0.00023
	(!A1 * B0 * B1 * Y)	0.00014	0.00014	0.00014
	(!A1 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * Y)	-0.00020	-0.00020	-0.00018
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	0.00014	0.00014	0.00015
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	-0.00020	-0.00020	-0.00019
	(!A1 * !B1 * !C0 * !Y)	0.00017	0.00017	0.00018
	(!A1 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C0 * !Y)	-0.00018	-0.00017	-0.00015
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00017	0.00017	0.00018
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00018	-0.00017	-0.00015

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X1P4H7H	**(A0 * B0 * B1 * C0 * Y)**	-0.00010	-0.00008	-0.00006
	(A0 * B0 * B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * C0 * Y)	0.00025	0.00026	0.00026
	(A0 * B0 * B1 * !C0 * Y)	-0.00010	-0.00008	-0.00007
	(A0 * B0 * B1 * !C0 * Y)	-0.00003	-0.00002	-0.00002
	(A0 * B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !C0 * Y)	0.00025	0.00026	0.00026
	(A0 * !B1 * C0 * Y)	-0.00009	-0.00008	-0.00006
	(A0 * !B1 * C0 * Y)	-0.00003	-0.00002	-0.00002
	(A0 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !B1 * C0 * Y)	0.00026	0.00026	0.00026
	(A0 * !B0 * B1 * C0 * Y)	-0.00009	-0.00008	-0.00006
	(A0 * !B0 * B1 * C0 * Y)	-0.00003	-0.00002	-0.00002
	(A0 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00001
	(A0 * !B0 * B1 * C0 * Y)	0.00026	0.00026	0.00026
	(!A0 * B0 * B1 * C0 * Y)	-0.00014	-0.00013	-0.00013
	(!A0 * B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * C0 * Y)	0.00022	0.00022	0.00023
	(!A0 * B0 * B1 * !C0 * Y)	-0.00014	-0.00013	-0.00013
	(!A0 * B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * !C0 * Y)	0.00022	0.00022	0.00023
	(!A0 * !B1 * C0 * Y)	-0.00014	-0.00014	-0.00013
	(!A0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * C0 * Y)	0.00022	0.00022	0.00023
	(!A0 * !B1 * !C0 * !Y)	-0.00023	-0.00023	-0.00023
	(!A0 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * !C0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !B1 * !C0 * !Y)	0.00006	0.00007	0.00007
	(!A0 * !B0 * B1 * C0 * Y)	-0.00014	-0.00013	-0.00013
	(!A0 * !B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * B1 * C0 * Y)	0.00001	0.00001	0.00002
	(!A0 * !B0 * B1 * C0 * Y)	0.00022	0.00022	0.00023
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00023	-0.00023	-0.00023
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00006	0.00007	0.00007

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X1P4H7H	**(A0 * B0 * B1 * C0 * Y)**	0.00009	0.00010	0.00010
	(A0 * B0 * B1 * C0 * Y)	0.00002	0.00002	0.00002
	(A0 * B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * C0 * Y)	-0.00026	-0.00026	-0.00025
	(A0 * B0 * B1 * !C0 * Y)	0.00009	0.00010	0.00010
	(A0 * B0 * B1 * !C0 * Y)	0.00002	0.00002	0.00003
	(A0 * B0 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * !C0 * Y)	-0.00025	-0.00025	-0.00025
	(A0 * !B1 * C0 * Y)	0.00009	0.00009	0.00009
	(A0 * !B1 * C0 * Y)	0.00002	0.00002	0.00003
	(A0 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B1 * C0 * Y)	-0.00026	-0.00026	-0.00026
	(A0 * !B0 * B1 * C0 * Y)	0.00009	0.00009	0.00009
	(A0 * !B0 * B1 * C0 * Y)	0.00002	0.00002	0.00003
	(A0 * !B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * B1 * C0 * Y)	-0.00026	-0.00026	-0.00026
	(!A0 * B0 * B1 * C0 * Y)	0.00013	0.00014	0.00014
	(!A0 * B0 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * C0 * Y)	-0.00023	-0.00022	-0.00021
	(!A0 * B0 * B1 * !C0 * Y)	0.00013	0.00013	0.00014
	(!A0 * B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00002
	(!A0 * B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * !C0 * Y)	-0.00022	-0.00022	-0.00020
	(!A0 * !B1 * C0 * Y)	0.00013	0.00014	0.00014
	(!A0 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * C0 * Y)	-0.00023	-0.00022	-0.00021
	(!A0 * !B1 * !C0 * !Y)	0.00023	0.00023	0.00023
	(!A0 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * !C0 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * !B1 * !C0 * !Y)	-0.00007	-0.00006	-0.00006
	(!A0 * !B0 * B1 * C0 * Y)	0.00013	0.00014	0.00014
	(!A0 * !B0 * B1 * C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * B1 * C0 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !B0 * B1 * C0 * Y)	-0.00023	-0.00022	-0.00021
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00023	0.00023	0.00023
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00007	-0.00006	-0.00006

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X1P4H7H	**(A0 * A1 * B1 * C0 * Y)**	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * C0 * Y)	-0.00007	-0.00007	-0.00006
	(A0 * A1 * B1 * C0 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * B1 * C0 * Y)	0.00022	0.00023	0.00023
	(A0 * A1 * B1 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * !C0 * Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * B1 * !C0 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * B1 * !C0 * Y)	0.00022	0.00023	0.00023
	(A0 * A1 * !B1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B1 * C0 * Y)	-0.00006	-0.00006	-0.00006
	(A0 * A1 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * C0 * Y)	0.00020	0.00020	0.00020
	(A0 * A1 * !B1 * !C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !C0 * Y)	0.00020	0.00020	0.00020
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	-0.00020	-0.00019	-0.00019
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	0.00018	0.00018	0.00018
	(!A1 * B1 * C0 * Y)	-0.00016	-0.00014	-0.00011
	(!A1 * B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B1 * C0 * Y)	0.00000	0.00000	0.00001
	(!A1 * B1 * C0 * Y)	0.00021	0.00021	0.00022
	(!A1 * !B1 * !C0 * !Y)	-0.00021	-0.00021	-0.00021
	(!A1 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C0 * !Y)	0.00016	0.00016	0.00017
	(!A0 * A1 * B1 * C0 * Y)	-0.00016	-0.00014	-0.00011
	(!A0 * A1 * B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * B1 * C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * B1 * C0 * Y)	0.00021	0.00021	0.00022
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00021	-0.00021	-0.00021
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00016	0.00016	0.00017

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X1P4H7H	**(A0 * A1 * B1 * C0 * Y)**	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * Y)	0.00006	0.00007	0.00007
	(A0 * A1 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * C0 * Y)	-0.00023	-0.00022	-0.00022
	(A0 * A1 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * Y)	0.00005	0.00005	0.00005
	(A0 * A1 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * !C0 * Y)	-0.00023	-0.00022	-0.00022
	(A0 * A1 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * Y)	0.00006	0.00006	0.00006
	(A0 * A1 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * C0 * Y)	-0.00020	-0.00019	-0.00018
	(A0 * A1 * !B1 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * Y)	0.00005	0.00005	0.00005
	(A0 * A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C0 * Y)	-0.00020	-0.00019	-0.00018
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	0.00019	0.00019	0.00020
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	-0.00018	-0.00017	-0.00016
	(!A1 * B1 * C0 * Y)	0.00015	0.00015	0.00016
	(!A1 * B1 * C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * B1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * B1 * C0 * Y)	-0.00021	-0.00021	-0.00021
	(!A1 * !B1 * !C0 * !Y)	0.00021	0.00021	0.00022
	(!A1 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C0 * !Y)	-0.00016	-0.00016	-0.00015
	(!A0 * A1 * B1 * C0 * Y)	0.00015	0.00015	0.00016
	(!A0 * A1 * B1 * C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * B1 * C0 * Y)	-0.00000	-0.00000	0.00001
	(!A0 * A1 * B1 * C0 * Y)	-0.00022	-0.00021	-0.00021
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00021	0.00021	0.00022
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00016	-0.00015	-0.00013

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X1P4H7H	**(A0 * A1 * B0 * C0 * Y)**	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * C0 * Y)	-0.00006	-0.00006	-0.00005
	(A0 * A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * Y)	0.00025	0.00025	0.00025
	(A0 * A1 * B0 * !C0 * Y)	-0.00000	0.00000	0.00001
	(A0 * A1 * B0 * !C0 * Y)	-0.00004	-0.00004	-0.00003
	(A0 * A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * Y)	0.00025	0.00025	0.00026
	(A0 * A1 * !B0 * C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * C0 * Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * C0 * Y)	0.00022	0.00022	0.00022
	(A0 * A1 * !B0 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * !B0 * !C0 * Y)	0.00001	0.00001	0.00002
	(A0 * A1 * !B0 * !C0 * Y)	0.00022	0.00022	0.00023
	(!A1 * B0 * C0 * Y)	-0.00012	-0.00011	-0.00009
	(!A1 * B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * C0 * Y)	0.00024	0.00024	0.00025
	(!A1 * !B0 * C0 * Y)	-0.00016	-0.00016	-0.00015
	(!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * Y)	0.00020	0.00021	0.00021
	(!A1 * !B0 * !C0 * !Y)	-0.00027	-0.00027	-0.00027
	(!A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * !Y)	0.00002	0.00003	0.00003
	(!A1 * !B0 * !C0 * !Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * B0 * C0 * Y)	-0.00012	-0.00011	-0.00009
	(!A0 * A1 * B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * B0 * C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * B0 * C0 * Y)	0.00024	0.00024	0.00025
	(!A0 * A1 * !B0 * C0 * Y)	-0.00016	-0.00016	-0.00015
	(!A0 * A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * C0 * Y)	0.00020	0.00021	0.00021
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00027	-0.00027	-0.00027
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00003	0.00003	0.00003

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X1P4H7H	**(A0 * A1 * B0 * C0 * Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * Y)	0.00005	0.00006	0.00006
	(A0 * A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * C0 * Y)	-0.00025	-0.00025	-0.00025
	(A0 * A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * B0 * !C0 * Y)	0.00003	0.00004	0.00005
	(A0 * A1 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * !C0 * Y)	-0.00025	-0.00025	-0.00025
	(A0 * A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * C0 * Y)	0.00005	0.00005	0.00005
	(A0 * A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * C0 * Y)	-0.00022	-0.00022	-0.00020
	(A0 * A1 * !B0 * !C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * Y)	0.00004	0.00004	0.00005
	(A0 * A1 * !B0 * !C0 * Y)	-0.00002	-0.00001	-0.00001
	(A0 * A1 * !B0 * !C0 * Y)	-0.00022	-0.00022	-0.00020
	(!A1 * B0 * C0 * Y)	0.00012	0.00012	0.00012
	(!A1 * B0 * C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * C0 * Y)	-0.00024	-0.00024	-0.00024
	(!A1 * !B0 * C0 * Y)	0.00016	0.00016	0.00016
	(!A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * Y)	-0.00021	-0.00020	-0.00019
	(!A1 * !B0 * !C0 * !Y)	0.00027	0.00027	0.00027
	(!A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A1 * !B0 * !C0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * A1 * B0 * C0 * Y)	0.00012	0.00012	0.00012
	(!A0 * A1 * B0 * C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * C0 * Y)	-0.00024	-0.00024	-0.00024
	(!A0 * A1 * !B0 * C0 * Y)	0.00016	0.00016	0.00016
	(!A0 * A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * C0 * Y)	-0.00021	-0.00020	-0.00019
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00027	0.00027	0.00027
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00003	-0.00003	-0.00002

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO221X1P4H7H	(A1 * B0 * B1 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * Y)	0.00031	0.00032	0.00032
	(A0 * A1 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * Y)	0.00032	0.00032	0.00032
	(A0 * A1 * !B0 * B1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * B1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * Y)	0.00031	0.00032	0.00032
	(!A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * Y)	0.00032	0.00032	0.00032

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO221X1P4H7H	(A1 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * Y)	0.00003	0.00003	0.00003
	(A1 * B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * Y)	-0.00032	-0.00032	-0.00031
	(A0 * A1 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B1 * Y)	-0.00032	-0.00031	-0.00031
	(A0 * A1 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * Y)	0.00003	0.00003	0.00004
	(A0 * A1 * !B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B0 * B1 * Y)	-0.00032	-0.00032	-0.00031
	(!A1 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * Y)	0.00003	0.00003	0.00003
	(!A1 * B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * Y)	-0.00032	-0.00032	-0.00031

AO221X2H7H

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

Truth Table

INPUT					OUTPUT
A0	A1	B0	B1	C0	Y
0	x	0	x	0	0
0	x	x	x	1	1
0	x	1	0	0	0
x	x	1	1	x	1
1	0	0	x	0	0
1	0	x	x	1	1
1	0	1	0	0	0
1	1	x	x	x	1

Footprint

Cell Name	Area
AO221X2H7H	3.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	A1	B0	B1	C0	Y
AO221X2H7H	0.00084	0.00089	0.00083	0.00086	0.00089	0.06068

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO221X2H7H	0.00000	0.02030	0.02742

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO221X2H7H	A0->Y (RR)	0.10899	0.29749	0.75732
	A1->Y (RR)	0.10688	0.29589	0.75468
	B0->Y (RR)	0.10183	0.28777	0.74089
	B1->Y (RR)	0.09943	0.28547	0.73653
	C0->Y (RR)	0.06073	0.24032	0.67755

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO221X2H7H	A0->Y (FF)	0.21756	0.38563	0.76854
	A1->Y (FF)	0.20803	0.37382	0.75319
	B0->Y (FF)	0.20619	0.37509	0.76811
	B1->Y (FF)	0.19513	0.36214	0.75095
	C0->Y (FF)	0.18634	0.34865	0.73285

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO221X2H7H	A0	0.00076	0.00084	0.00093
	A0	0.00013	0.00013	0.00013
	A0	-0.00007	-0.00007	-0.00007
	A0	0.00243	0.00251	0.00261
	A1	0.00075	0.00083	0.00093
	A1	0.00012	0.00013	0.00013
	A1	-0.00003	-0.00003	0.00001
	A1	0.00224	0.00232	0.00242
	B0	0.00077	0.00085	0.00094
	B0	0.00004	0.00005	0.00009
	B0	-0.00007	-0.00007	-0.00006
	B0	0.00220	0.00228	0.00237
	B1	0.00077	0.00085	0.00094
	B1	0.00004	0.00004	0.00004
	B1	-0.00003	-0.00003	-0.00002
	B1	0.00200	0.00208	0.00218
	C0	0.00074	0.00084	0.00093
	C0	-0.00002	-0.00002	-0.00001
	C0	-0.00003	-0.00003	-0.00002
	C0	0.00195	0.00204	0.00213

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO221X2H7H	A0	0.00278	0.00285	0.00293
	A0	-0.00012	-0.00012	-0.00012
	A0	0.00010	0.00010	0.00011
	A0	0.00102	0.00109	0.00117
	A1	0.00265	0.00273	0.00282
	A1	-0.00012	-0.00012	-0.00012
	A1	0.00006	0.00007	0.00007
	A1	0.00105	0.00113	0.00123
	B0	0.00242	0.00249	0.00257
	B0	-0.00006	-0.00005	-0.00003
	B0	0.00010	0.00010	0.00010
	B0	0.00098	0.00105	0.00114
	B1	0.00229	0.00236	0.00245
	B1	-0.00004	-0.00004	-0.00004
	B1	0.00006	0.00007	0.00007
	B1	0.00102	0.00110	0.00119
	C0	0.00211	0.00218	0.00228
	C0	0.00002	0.00002	0.00005
	C0	0.00010	0.00010	0.00010
	C0	0.00095	0.00103	0.00112

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X2H7H	**(A1 * B0 * B1 * C0 * Y)**	-0.00010	-0.00008	-0.00006
	(A1 * B0 * B1 * C0 * Y)	-0.00003	-0.00003	-0.00002
	(A1 * B0 * B1 * C0 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * B1 * C0 * Y)	0.00028	0.00029	0.00029
	(A1 * B0 * B1 * !C0 * Y)	-0.00010	-0.00009	-0.00007
	(A1 * B0 * B1 * !C0 * Y)	-0.00003	-0.00002	-0.00002
	(A1 * B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C0 * Y)	0.00028	0.00028	0.00029
	(A1 * !B1 * C0 * Y)	-0.00010	-0.00008	-0.00006
	(A1 * !B1 * C0 * Y)	-0.00003	-0.00002	-0.00002
	(A1 * !B1 * C0 * Y)	0.00000	0.00000	0.00001
	(A1 * !B1 * C0 * Y)	0.00028	0.00028	0.00029
	(A1 * !B0 * B1 * C0 * Y)	-0.00010	-0.00008	-0.00006
	(A1 * !B0 * B1 * C0 * Y)	-0.00003	-0.00002	-0.00002
	(A1 * !B0 * B1 * C0 * Y)	-0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * C0 * Y)	0.00028	0.00028	0.00029
	(!A1 * B0 * B1 * Y)	-0.00014	-0.00014	-0.00014
	(!A1 * B0 * B1 * Y)	-0.00002	-0.00001	-0.00001
	(!A1 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * Y)	0.00025	0.00025	0.00025
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	-0.00015	-0.00014	-0.00014
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	0.00000
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	0.00025	0.00025	0.00025
	(!A1 * !B1 * !C0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B1 * !C0 * !Y)	0.00021	0.00021	0.00021
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00021	0.00021	0.00021

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X2H7H	**(A1 * B0 * B1 * C0 * Y)**	0.00009	0.00010	0.00010
	(A1 * B0 * B1 * C0 * Y)	0.00002	0.00003	0.00003
	(A1 * B0 * B1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * C0 * Y)	-0.00028	-0.00028	-0.00028
	(A1 * B0 * B1 * !C0 * Y)	0.00009	0.00010	0.00010
	(A1 * B0 * B1 * !C0 * Y)	0.00002	0.00002	0.00003
	(A1 * B0 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * !C0 * Y)	-0.00028	-0.00028	-0.00028
	(A1 * !B1 * C0 * Y)	0.00010	0.00010	0.00010
	(A1 * !B1 * C0 * Y)	0.00002	0.00002	0.00003
	(A1 * !B1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A1 * !B1 * C0 * Y)	-0.00028	-0.00028	-0.00028
	(A1 * !B0 * B1 * C0 * Y)	0.00009	0.00010	0.00010
	(A1 * !B0 * B1 * C0 * Y)	0.00002	0.00002	0.00003
	(A1 * !B0 * B1 * C0 * Y)	-0.00000	-0.00000	0.00001
	(A1 * !B0 * B1 * C0 * Y)	-0.00028	-0.00028	-0.00028
	(!A1 * B0 * B1 * Y)	0.00014	0.00014	0.00014
	(!A1 * B0 * B1 * Y)	0.00001	0.00001	0.00002
	(!A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * Y)	-0.00025	-0.00024	-0.00023
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	0.00014	0.00014	0.00015
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	-0.00025	-0.00024	-0.00023
	(!A1 * !B1 * !C0 * !Y)	0.00019	0.00019	0.00019
	(!A1 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A1 * !B1 * !C0 * !Y)	-0.00021	-0.00020	-0.00018
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00019	0.00019	0.00020
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00021	-0.00020	-0.00018

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X2H7H	**(A0 * B0 * B1 * C0 * Y)**	-0.00010	-0.00008	-0.00006
	(A0 * B0 * B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * C0 * Y)	0.00027	0.00027	0.00027
	(A0 * B0 * B1 * !C0 * Y)	-0.00010	-0.00008	-0.00006
	(A0 * B0 * B1 * !C0 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !C0 * Y)	0.00027	0.00027	0.00027
	(A0 * !B1 * C0 * Y)	-0.00009	-0.00008	-0.00005
	(A0 * !B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !B1 * C0 * Y)	0.00027	0.00027	0.00027
	(A0 * !B0 * B1 * C0 * Y)	-0.00009	-0.00008	-0.00006
	(A0 * !B0 * B1 * C0 * Y)	-0.00003	-0.00002	-0.00001
	(A0 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * B1 * C0 * Y)	0.00027	0.00027	0.00027
	(!A0 * B0 * B1 * C0 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * B1 * C0 * Y)	0.00001	0.00001	0.00002
	(!A0 * B0 * B1 * C0 * Y)	0.00023	0.00023	0.00023
	(!A0 * B0 * B1 * !C0 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * !C0 * Y)	0.00023	0.00023	0.00023
	(!A0 * !B1 * C0 * Y)	-0.00014	-0.00014	-0.00013
	(!A0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * C0 * Y)	0.00023	0.00023	0.00023
	(!A0 * !B1 * !C0 * !Y)	-0.00026	-0.00025	-0.00025
	(!A0 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * !C0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !B1 * !C0 * !Y)	0.00005	0.00005	0.00005
	(!A0 * !B0 * B1 * C0 * Y)	-0.00014	-0.00014	-0.00013
	(!A0 * !B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * B1 * C0 * Y)	0.00023	0.00023	0.00024
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00026	-0.00025	-0.00025
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00005	0.00005	0.00005

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X2H7H	**(A0 * B0 * B1 * C0 * Y)**	0.00009	0.00010	0.00010
	(A0 * B0 * B1 * C0 * Y)	0.00002	0.00002	0.00002
	(A0 * B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * C0 * Y)	-0.00027	-0.00027	-0.00027
	(A0 * B0 * B1 * !C0 * Y)	0.00010	0.00010	0.00010
	(A0 * B0 * B1 * !C0 * Y)	0.00001	0.00002	0.00002
	(A0 * B0 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * !C0 * Y)	-0.00027	-0.00027	-0.00027
	(A0 * !B1 * C0 * Y)	0.00009	0.00009	0.00009
	(A0 * !B1 * C0 * Y)	0.00002	0.00002	0.00002
	(A0 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B1 * C0 * Y)	-0.00027	-0.00027	-0.00027
	(A0 * !B0 * B1 * C0 * Y)	0.00009	0.00009	0.00010
	(A0 * !B0 * B1 * C0 * Y)	0.00001	0.00002	0.00003
	(A0 * !B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * B1 * C0 * Y)	-0.00027	-0.00027	-0.00027
	(!A0 * B0 * B1 * C0 * Y)	0.00014	0.00014	0.00014
	(!A0 * B0 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * C0 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * B0 * B1 * C0 * Y)	-0.00023	-0.00023	-0.00022
	(!A0 * B0 * B1 * !C0 * Y)	0.00014	0.00014	0.00014
	(!A0 * B0 * B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * !C0 * Y)	-0.00023	-0.00023	-0.00022
	(!A0 * !B1 * C0 * Y)	0.00013	0.00014	0.00014
	(!A0 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * C0 * Y)	-0.00023	-0.00023	-0.00021
	(!A0 * !B1 * !C0 * !Y)	0.00025	0.00026	0.00026
	(!A0 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * !C0 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * !B1 * !C0 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !B0 * B1 * C0 * Y)	0.00013	0.00014	0.00014
	(!A0 * !B0 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * B1 * C0 * Y)	-0.00023	-0.00023	-0.00021
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00025	0.00026	0.00026
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00005	-0.00005	-0.00005

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X2H7H	**(A0 * A1 * B1 * C0 * Y)**	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * C0 * Y)	-0.00006	-0.00006	-0.00006
	(A0 * A1 * B1 * C0 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * B1 * C0 * Y)	0.00026	0.00026	0.00026
	(A0 * A1 * B1 * !C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * Y)	-0.00005	-0.00005	-0.00004
	(A0 * A1 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * Y)	0.00026	0.00026	0.00026
	(A0 * A1 * !B1 * C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * Y)	-0.00006	-0.00006	-0.00005
	(A0 * A1 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * C0 * Y)	0.00023	0.00023	0.00024
	(A0 * A1 * !B1 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * Y)	-0.00005	-0.00005	-0.00004
	(A0 * A1 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !C0 * Y)	0.00023	0.00024	0.00024
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	-0.00018	-0.00017	-0.00017
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	0.00021	0.00021	0.00021
	(!A1 * B1 * C0 * Y)	-0.00014	-0.00012	-0.00010
	(!A1 * B1 * C0 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * B1 * C0 * Y)	0.00000	0.00000	0.00001
	(!A1 * B1 * C0 * Y)	0.00024	0.00024	0.00025
	(!A1 * !B1 * !C0 * !Y)	-0.00021	-0.00020	-0.00020
	(!A1 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B1 * !C0 * !Y)	0.00018	0.00018	0.00019
	(!A0 * A1 * B1 * C0 * Y)	-0.00014	-0.00012	-0.00010
	(!A0 * A1 * B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * B1 * C0 * Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * B1 * C0 * Y)	0.00024	0.00025	0.00025
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00021	-0.00020	-0.00020
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00018	0.00018	0.00019

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X2H7H	**(A0 * A1 * B1 * C0 * Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * Y)	0.00006	0.00006	0.00006
	(A0 * A1 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * C0 * Y)	-0.00026	-0.00026	-0.00026
	(A0 * A1 * B1 * !C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * Y)	0.00004	0.00005	0.00005
	(A0 * A1 * B1 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * !C0 * Y)	-0.00026	-0.00026	-0.00026
	(A0 * A1 * !B1 * C0 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * !B1 * C0 * Y)	0.00005	0.00006	0.00006
	(A0 * A1 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * C0 * Y)	-0.00024	-0.00023	-0.00022
	(A0 * A1 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * Y)	0.00004	0.00005	0.00005
	(A0 * A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C0 * Y)	-0.00023	-0.00023	-0.00021
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	0.00017	0.00017	0.00018
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	0.00001	0.00001	0.00002
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	-0.00021	-0.00021	-0.00019
	(!A1 * B1 * C0 * Y)	0.00013	0.00014	0.00014
	(!A1 * B1 * C0 * Y)	0.00001	0.00002	0.00002
	(!A1 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B1 * C0 * Y)	-0.00024	-0.00024	-0.00024
	(!A1 * !B1 * !C0 * !Y)	0.00021	0.00021	0.00022
	(!A1 * !B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B1 * !C0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A1 * !B1 * !C0 * !Y)	-0.00018	-0.00018	-0.00017
	(!A0 * A1 * B1 * C0 * Y)	0.00013	0.00014	0.00014
	(!A0 * A1 * B1 * C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * B1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * B1 * C0 * Y)	-0.00024	-0.00024	-0.00024
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00021	0.00021	0.00022
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00018	-0.00018	-0.00017

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X2H7H	**(A0 * A1 * B0 * C0 * Y)**	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * C0 * Y)	-0.00006	-0.00006	-0.00006
	(A0 * A1 * B0 * C0 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * B0 * C0 * Y)	0.00022	0.00023	0.00023
	(A0 * A1 * B0 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B0 * !C0 * Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * Y)	0.00022	0.00023	0.00023
	(A0 * A1 * !B0 * C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * C0 * Y)	-0.00006	-0.00006	-0.00006
	(A0 * A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * C0 * Y)	0.00020	0.00020	0.00020
	(A0 * A1 * !B0 * !C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * Y)	-0.00005	-0.00005	-0.00004
	(A0 * A1 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * !C0 * Y)	0.00020	0.00020	0.00020
	(!A1 * B0 * C0 * Y)	-0.00013	-0.00012	-0.00009
	(!A1 * B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * C0 * Y)	0.00021	0.00021	0.00022
	(!A1 * !B0 * C0 * Y)	-0.00017	-0.00017	-0.00017
	(!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * Y)	0.00018	0.00018	0.00018
	(!A1 * !B0 * !C0 * !Y)	-0.00026	-0.00026	-0.00026
	(!A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * !Y)	0.00002	0.00003	0.00003
	(!A1 * !B0 * !C0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * A1 * B0 * C0 * Y)	-0.00013	-0.00012	-0.00010
	(!A0 * A1 * B0 * C0 * Y)	-0.00003	-0.00002	-0.00002
	(!A0 * A1 * B0 * C0 * Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * B0 * C0 * Y)	0.00021	0.00021	0.00021
	(!A0 * A1 * !B0 * C0 * Y)	-0.00017	-0.00017	-0.00017
	(!A0 * A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * !B0 * C0 * Y)	0.00018	0.00018	0.00018
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00026	-0.00026	-0.00026
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	0.00000
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00002	0.00003	0.00003

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X2H7H	**(A0 * A1 * B0 * C0 * Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * Y)	0.00006	0.00006	0.00006
	(A0 * A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * C0 * Y)	-0.00023	-0.00022	-0.00022
	(A0 * A1 * B0 * !C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * Y)	0.00005	0.00005	0.00005
	(A0 * A1 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * !C0 * Y)	-0.00023	-0.00022	-0.00022
	(A0 * A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * C0 * Y)	0.00006	0.00006	0.00006
	(A0 * A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * C0 * Y)	-0.00020	-0.00019	-0.00018
	(A0 * A1 * !B0 * !C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * Y)	0.00004	0.00005	0.00006
	(A0 * A1 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * !C0 * Y)	-0.00020	-0.00019	-0.00018
	(!A1 * B0 * C0 * Y)	0.00013	0.00013	0.00013
	(!A1 * B0 * C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * C0 * Y)	-0.00021	-0.00021	-0.00021
	(!A1 * !B0 * C0 * Y)	0.00017	0.00017	0.00017
	(!A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * Y)	-0.00018	-0.00017	-0.00016
	(!A1 * !B0 * !C0 * !Y)	0.00026	0.00026	0.00026
	(!A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C0 * !Y)	-0.00003	-0.00002	-0.00002
	(!A1 * !B0 * !C0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * A1 * B0 * C0 * Y)	0.00013	0.00013	0.00013
	(!A0 * A1 * B0 * C0 * Y)	0.00002	0.00002	0.00003
	(!A0 * A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * C0 * Y)	-0.00021	-0.00021	-0.00021
	(!A0 * A1 * !B0 * C0 * Y)	0.00017	0.00017	0.00017
	(!A0 * A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * C0 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * A1 * !B0 * C0 * Y)	-0.00018	-0.00017	-0.00016
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00026	0.00026	0.00026
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00003	-0.00003	-0.00002

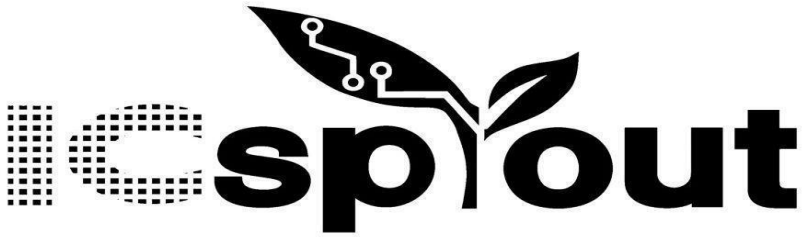
Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO221X2H7H	(A1 * B0 * B1 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * Y)	0.00032	0.00032	0.00032
	(A0 * A1 * !B1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * Y)	0.00032	0.00032	0.00032
	(A0 * A1 * !B0 * B1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * B1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * Y)	0.00032	0.00032	0.00032
	(!A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * Y)	0.00032	0.00032	0.00032

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO221X2H7H	(A1 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * Y)	0.00003	0.00003	0.00004
	(A1 * B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * Y)	-0.00032	-0.00032	-0.00031
	(A0 * A1 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B1 * Y)	-0.00032	-0.00032	-0.00032
	(A0 * A1 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * Y)	0.00003	0.00003	0.00004
	(A0 * A1 * !B0 * B1 * Y)	-0.00000	-0.00000	0.00001
	(A0 * A1 * !B0 * B1 * Y)	-0.00032	-0.00032	-0.00032
	(!A1 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * Y)	0.00003	0.00003	0.00003
	(!A1 * B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * Y)	-0.00032	-0.00032	-0.00031

AO221X3H7H



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

Truth Table

INPUT					OUTPUT
A0	A1	B0	B1	C0	Y
0	x	0	x	0	0
0	x	x	x	1	1
0	x	1	0	0	0
x	x	1	1	x	1
1	0	0	x	0	0
1	0	x	x	1	1
1	0	1	0	0	0
1	1	x	x	x	1

Footprint

Cell Name	Area
AO221X3H7H	3.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	A1	B0	B1	C0	Y
AO221X3H7H	0.00090	0.00096	0.00091	0.00097	0.00096	0.08642

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO221X3H7H	0.00000	0.03612	0.04080

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO221X3H7H	A0->Y (RR)	0.09882	0.28989	0.75341
	A1->Y (RR)	0.09663	0.28649	0.74516
	B0->Y (RR)	0.09226	0.28054	0.73711
	B1->Y (RR)	0.08999	0.27672	0.72807
	C0->Y (RR)	0.05381	0.23448	0.67361

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO221X3H7H	A0->Y (FF)	0.19686	0.36830	0.75758
	A1->Y (FF)	0.18820	0.35759	0.74334
	B0->Y (FF)	0.18613	0.35908	0.75916
	B1->Y (FF)	0.17731	0.34758	0.74223
	C0->Y (FF)	0.16761	0.33374	0.72310

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO221X3H7H	A0	0.00091	0.00101	0.00111
	A0	0.00015	0.00015	0.00016
	A0	-0.00008	-0.00008	-0.00005
	A0	0.00279	0.00290	0.00300
	A1	0.00090	0.00100	0.00111
	A1	0.00015	0.00015	0.00015
	A1	-0.00003	-0.00003	0.00000
	A1	0.00258	0.00267	0.00279
	B0	0.00092	0.00102	0.00112
	B0	0.00004	0.00005	0.00006
	B0	-0.00008	-0.00008	-0.00006
	B0	0.00252	0.00262	0.00272
	B1	0.00092	0.00102	0.00113
	B1	0.00004	0.00005	0.00008
	B1	-0.00003	-0.00003	-0.00002
	B1	0.00230	0.00240	0.00251
	C0	0.00089	0.00101	0.00111
	C0	-0.00004	-0.00004	-0.00002
	C0	-0.00003	-0.00003	-0.00003
	C0	0.00222	0.00234	0.00243

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO221X3H7H	A0	0.00318	0.00326	0.00336
	A0	-0.00015	-0.00015	-0.00014
	A0	0.00012	0.00013	0.00013
	A0	0.00119	0.00128	0.00138
	A1	0.00303	0.00313	0.00324
	A1	-0.00015	-0.00014	-0.00014
	A1	0.00008	0.00008	0.00008
	A1	0.00122	0.00132	0.00144
	B0	0.00278	0.00286	0.00295
	B0	-0.00005	-0.00005	-0.00003
	B0	0.00012	0.00013	0.00013
	B0	0.00117	0.00125	0.00135
	B1	0.00261	0.00270	0.00281
	B1	-0.00006	-0.00005	-0.00004
	B1	0.00008	0.00008	0.00008
	B1	0.00119	0.00129	0.00140
	C0	0.00239	0.00248	0.00259
	C0	0.00002	0.00004	0.00005
	C0	0.00013	0.00013	0.00013
	C0	0.00112	0.00121	0.00133

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X3H7H	**(A1 * B0 * B1 * C0 * Y)**	-0.00012	-0.00010	-0.00008
	(A1 * B0 * B1 * C0 * Y)	-0.00004	-0.00003	-0.00003
	(A1 * B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C0 * Y)	0.00030	0.00030	0.00031
	(A1 * B0 * B1 * !C0 * Y)	-0.00012	-0.00010	-0.00008
	(A1 * B0 * B1 * !C0 * Y)	-0.00004	-0.00003	-0.00003
	(A1 * B0 * B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * B1 * !C0 * Y)	0.00030	0.00030	0.00031
	(A1 * !B1 * C0 * Y)	-0.00012	-0.00010	-0.00008
	(A1 * !B1 * C0 * Y)	-0.00003	-0.00003	-0.00002
	(A1 * !B1 * C0 * Y)	0.00000	0.00000	0.00001
	(A1 * !B1 * C0 * Y)	0.00030	0.00030	0.00031
	(A1 * !B0 * B1 * C0 * Y)	-0.00012	-0.00010	-0.00008
	(A1 * !B0 * B1 * C0 * Y)	-0.00004	-0.00003	-0.00003
	(A1 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00001
	(A1 * !B0 * B1 * C0 * Y)	0.00030	0.00030	0.00031
	(!A1 * B0 * B1 * Y)	-0.00017	-0.00016	-0.00016
	(!A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * B1 * Y)	0.00027	0.00027	0.00027
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	-0.00017	-0.00016	-0.00016
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	0.00026	0.00027	0.00027
	(!A1 * !B1 * !C0 * !Y)	-0.00021	-0.00021	-0.00021
	(!A1 * !B1 * !C0 * !Y)	-0.00001	-0.00001	0.00000
	(!A1 * !B1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * !B1 * !C0 * !Y)	0.00022	0.00023	0.00023
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00021	-0.00021	-0.00021
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	0.00000
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00023	0.00023	0.00023

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X3H7H	**(A1 * B0 * B1 * C0 * Y)**	0.00011	0.00012	0.00012
	(A1 * B0 * B1 * C0 * Y)	0.00003	0.00003	0.00004
	(A1 * B0 * B1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * C0 * Y)	-0.00030	-0.00030	-0.00030
	(A1 * B0 * B1 * !C0 * Y)	0.00011	0.00012	0.00012
	(A1 * B0 * B1 * !C0 * Y)	0.00003	0.00003	0.00004
	(A1 * B0 * B1 * !C0 * Y)	-0.00000	-0.00001	-0.00000
	(A1 * B0 * B1 * !C0 * Y)	-0.00030	-0.00030	-0.00030
	(A1 * !B1 * C0 * Y)	0.00012	0.00012	0.00012
	(A1 * !B1 * C0 * Y)	0.00002	0.00003	0.00003
	(A1 * !B1 * C0 * Y)	-0.00001	-0.00000	0.00000
	(A1 * !B1 * C0 * Y)	-0.00030	-0.00030	-0.00030
	(A1 * !B0 * B1 * C0 * Y)	0.00011	0.00012	0.00012
	(A1 * !B0 * B1 * C0 * Y)	0.00003	0.00003	0.00004
	(A1 * !B0 * B1 * C0 * Y)	-0.00001	-0.00000	0.00000
	(A1 * !B0 * B1 * C0 * Y)	-0.00030	-0.00030	-0.00030
	(!A1 * B0 * B1 * Y)	0.00016	0.00016	0.00017
	(!A1 * B0 * B1 * Y)	0.00001	0.00001	0.00002
	(!A1 * B0 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * B1 * Y)	-0.00027	-0.00026	-0.00024
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	0.00016	0.00017	0.00017
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00002
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	-0.00027	-0.00026	-0.00025
	(!A1 * !B1 * !C0 * !Y)	0.00021	0.00021	0.00022
	(!A1 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B1 * !C0 * !Y)	-0.00022	-0.00021	-0.00019
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00021	0.00021	0.00022
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00022	-0.00021	-0.00020

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X3H7H	**(A0 * B0 * B1 * C0 * Y)**	-0.00012	-0.00010	-0.00008
	(A0 * B0 * B1 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * B1 * C0 * Y)	0.00000	0.00001	0.00001
	(A0 * B0 * B1 * C0 * Y)	0.00029	0.00029	0.00029
	(A0 * B0 * B1 * !C0 * Y)	-0.00012	-0.00010	-0.00009
	(A0 * B0 * B1 * !C0 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * B0 * B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(A0 * B0 * B1 * !C0 * Y)	0.00029	0.00029	0.00029
	(A0 * !B1 * C0 * Y)	-0.00011	-0.00010	-0.00008
	(A0 * !B1 * C0 * Y)	-0.00004	-0.00003	-0.00003
	(A0 * !B1 * C0 * Y)	0.00000	0.00001	0.00001
	(A0 * !B1 * C0 * Y)	0.00029	0.00029	0.00029
	(A0 * !B0 * B1 * C0 * Y)	-0.00011	-0.00010	-0.00008
	(A0 * !B0 * B1 * C0 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * !B0 * B1 * C0 * Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * B1 * C0 * Y)	0.00029	0.00029	0.00029
	(!A0 * B0 * B1 * C0 * Y)	-0.00017	-0.00016	-0.00016
	(!A0 * B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * B0 * B1 * C0 * Y)	0.00025	0.00025	0.00025
	(!A0 * B0 * B1 * !C0 * Y)	-0.00017	-0.00016	-0.00016
	(!A0 * B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * B0 * B1 * !C0 * Y)	0.00025	0.00025	0.00025
	(!A0 * !B1 * C0 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B1 * C0 * Y)	0.00025	0.00025	0.00025
	(!A0 * !B1 * !C0 * !Y)	-0.00029	-0.00029	-0.00029
	(!A0 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * !C0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !B1 * !C0 * !Y)	0.00005	0.00006	0.00007
	(!A0 * !B0 * B1 * C0 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * B1 * C0 * Y)	0.00001	0.00002	0.00002
	(!A0 * !B0 * B1 * C0 * Y)	0.00025	0.00025	0.00025
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00029	-0.00029	-0.00028
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00003	0.00003	0.00004
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00005	0.00005	0.00006

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X3H7H	**(A0 * B0 * B1 * C0 * Y)**	0.00012	0.00012	0.00012
	(A0 * B0 * B1 * C0 * Y)	0.00003	0.00003	0.00003
	(A0 * B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * B1 * C0 * Y)	-0.00029	-0.00029	-0.00029
	(A0 * B0 * B1 * !C0 * Y)	0.00012	0.00012	0.00013
	(A0 * B0 * B1 * !C0 * Y)	0.00002	0.00003	0.00003
	(A0 * B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * B1 * !C0 * Y)	-0.00029	-0.00029	-0.00029
	(A0 * !B1 * C0 * Y)	0.00011	0.00012	0.00012
	(A0 * !B1 * C0 * Y)	0.00003	0.00003	0.00004
	(A0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B1 * C0 * Y)	-0.00029	-0.00029	-0.00029
	(A0 * !B0 * B1 * C0 * Y)	0.00011	0.00011	0.00011
	(A0 * !B0 * B1 * C0 * Y)	0.00002	0.00003	0.00003
	(A0 * !B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * B1 * C0 * Y)	-0.00029	-0.00029	-0.00028
	(!A0 * B0 * B1 * C0 * Y)	0.00016	0.00016	0.00017
	(!A0 * B0 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * B0 * B1 * C0 * Y)	-0.00025	-0.00024	-0.00023
	(!A0 * B0 * B1 * !C0 * Y)	0.00016	0.00016	0.00017
	(!A0 * B0 * B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * B0 * B1 * !C0 * Y)	-0.00025	-0.00024	-0.00023
	(!A0 * !B1 * C0 * Y)	0.00016	0.00016	0.00016
	(!A0 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B1 * C0 * Y)	-0.00025	-0.00024	-0.00023
	(!A0 * !B1 * !C0 * !Y)	0.00029	0.00029	0.00029
	(!A0 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * !C0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !B1 * !C0 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !B0 * B1 * C0 * Y)	0.00016	0.00016	0.00017
	(!A0 * !B0 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * B1 * C0 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B0 * B1 * C0 * Y)	-0.00025	-0.00024	-0.00023
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00029	0.00029	0.00029
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00004	-0.00003	-0.00003
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00005	-0.00005	-0.00005

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X3H7H	**(A0 * A1 * B1 * C0 * Y)**	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * C0 * Y)	-0.00008	-0.00008	-0.00008
	(A0 * A1 * B1 * C0 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * B1 * C0 * Y)	0.00027	0.00027	0.00027
	(A0 * A1 * B1 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * !C0 * Y)	-0.00006	-0.00006	-0.00006
	(A0 * A1 * B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B1 * !C0 * Y)	0.00026	0.00027	0.00027
	(A0 * A1 * !B1 * C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * Y)	-0.00008	-0.00008	-0.00008
	(A0 * A1 * !B1 * C0 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B1 * C0 * Y)	0.00023	0.00023	0.00023
	(A0 * A1 * !B1 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * Y)	-0.00006	-0.00006	-0.00006
	(A0 * A1 * !B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B1 * !C0 * Y)	0.00023	0.00024	0.00024
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	-0.00022	-0.00022	-0.00022
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	0.00021	0.00021	0.00021
	(!A1 * B1 * C0 * Y)	-0.00017	-0.00015	-0.00012
	(!A1 * B1 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * B1 * C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * B1 * C0 * Y)	0.00025	0.00025	0.00025
	(!A1 * !B1 * !C0 * !Y)	-0.00023	-0.00023	-0.00023
	(!A1 * !B1 * !C0 * !Y)	-0.00002	-0.00001	-0.00000
	(!A1 * !B1 * !C0 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B1 * !C0 * !Y)	0.00020	0.00020	0.00020
	(!A0 * A1 * B1 * C0 * Y)	-0.00017	-0.00015	-0.00012
	(!A0 * A1 * B1 * C0 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * A1 * B1 * C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * B1 * C0 * Y)	0.00025	0.00025	0.00025
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00023	-0.00023	-0.00023
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00002	-0.00001	0.00000
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00020	0.00020	0.00020

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X3H7H	**(A0 * A1 * B1 * C0 * Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * Y)	0.00008	0.00008	0.00008
	(A0 * A1 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * C0 * Y)	-0.00027	-0.00026	-0.00026
	(A0 * A1 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * Y)	0.00006	0.00007	0.00007
	(A0 * A1 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * B1 * !C0 * Y)	-0.00027	-0.00026	-0.00026
	(A0 * A1 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * Y)	0.00008	0.00008	0.00008
	(A0 * A1 * !B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B1 * C0 * Y)	-0.00023	-0.00023	-0.00022
	(A0 * A1 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * Y)	0.00006	0.00006	0.00006
	(A0 * A1 * !B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B1 * !C0 * Y)	-0.00024	-0.00023	-0.00022
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	0.00022	0.00022	0.00022
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	-0.00021	-0.00020	-0.00020
	(!A1 * B1 * C0 * Y)	0.00017	0.00017	0.00017
	(!A1 * B1 * C0 * Y)	0.00003	0.00003	0.00003
	(!A1 * B1 * C0 * Y)	-0.00000	-0.00001	-0.00000
	(!A1 * B1 * C0 * Y)	-0.00025	-0.00024	-0.00024
	(!A1 * !B1 * !C0 * !Y)	0.00023	0.00023	0.00024
	(!A1 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B1 * !C0 * !Y)	-0.00020	-0.00019	-0.00018
	(!A0 * A1 * B1 * C0 * Y)	0.00017	0.00017	0.00017
	(!A0 * A1 * B1 * C0 * Y)	0.00002	0.00003	0.00003
	(!A0 * A1 * B1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * B1 * C0 * Y)	-0.00025	-0.00025	-0.00024
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00023	0.00023	0.00024
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00020	-0.00019	-0.00018

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X3H7H	**(A0 * A1 * B0 * C0 * Y)**	-0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * Y)	-0.00007	-0.00007	-0.00007
	(A0 * A1 * B0 * C0 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B0 * C0 * Y)	0.00027	0.00027	0.00027
	(A0 * A1 * B0 * !C0 * Y)	-0.00000	0.00000	0.00001
	(A0 * A1 * B0 * !C0 * Y)	-0.00006	-0.00006	-0.00005
	(A0 * A1 * B0 * !C0 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B0 * !C0 * Y)	0.00027	0.00027	0.00027
	(A0 * A1 * !B0 * C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * C0 * Y)	-0.00007	-0.00007	-0.00006
	(A0 * A1 * !B0 * C0 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * C0 * Y)	0.00023	0.00024	0.00024
	(A0 * A1 * !B0 * !C0 * Y)	-0.00001	-0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * Y)	-0.00005	-0.00005	-0.00004
	(A0 * A1 * !B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * !C0 * Y)	0.00024	0.00024	0.00024
	(!A1 * B0 * C0 * Y)	-0.00014	-0.00012	-0.00009
	(!A1 * B0 * C0 * Y)	-0.00003	-0.00003	-0.00002
	(!A1 * B0 * C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * C0 * Y)	0.00025	0.00025	0.00026
	(!A1 * !B0 * C0 * Y)	-0.00018	-0.00018	-0.00018
	(!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * C0 * Y)	0.00022	0.00022	0.00022
	(!A1 * !B0 * !C0 * !Y)	-0.00030	-0.00030	-0.00029
	(!A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !C0 * !Y)	0.00003	0.00003	0.00004
	(!A1 * !B0 * !C0 * !Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * B0 * C0 * Y)	-0.00014	-0.00012	-0.00010
	(!A0 * A1 * B0 * C0 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * A1 * B0 * C0 * Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * B0 * C0 * Y)	0.00025	0.00026	0.00026
	(!A0 * A1 * !B0 * C0 * Y)	-0.00018	-0.00018	-0.00017
	(!A0 * A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * C0 * Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * !B0 * C0 * Y)	0.00021	0.00022	0.00022
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00030	-0.00030	-0.00029
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	0.00000
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00003	0.00003	0.00004
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00003	0.00003	0.00003

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X3H7H	**(A0 * A1 * B0 * C0 * Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * Y)	0.00007	0.00007	0.00007
	(A0 * A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * B0 * C0 * Y)	-0.00027	-0.00027	-0.00027
	(A0 * A1 * B0 * !C0 * Y)	-0.00001	-0.00000	0.00000
	(A0 * A1 * B0 * !C0 * Y)	0.00005	0.00006	0.00007
	(A0 * A1 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * B0 * !C0 * Y)	-0.00027	-0.00027	-0.00026
	(A0 * A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * C0 * Y)	0.00006	0.00007	0.00007
	(A0 * A1 * !B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * C0 * Y)	-0.00024	-0.00023	-0.00021
	(A0 * A1 * !B0 * !C0 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * !B0 * !C0 * Y)	0.00004	0.00005	0.00005
	(A0 * A1 * !B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * !C0 * Y)	-0.00024	-0.00023	-0.00022
	(!A1 * B0 * C0 * Y)	0.00014	0.00014	0.00014
	(!A1 * B0 * C0 * Y)	0.00002	0.00003	0.00003
	(!A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * C0 * Y)	-0.00025	-0.00025	-0.00025
	(!A1 * !B0 * C0 * Y)	0.00018	0.00018	0.00018
	(!A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * C0 * Y)	-0.00022	-0.00021	-0.00020
	(!A1 * !B0 * !C0 * !Y)	0.00030	0.00030	0.00030
	(!A1 * !B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !C0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * !C0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * B0 * C0 * Y)	0.00014	0.00014	0.00014
	(!A0 * A1 * B0 * C0 * Y)	0.00002	0.00003	0.00003
	(!A0 * A1 * B0 * C0 * Y)	-0.00001	-0.00000	0.00000
	(!A0 * A1 * B0 * C0 * Y)	-0.00025	-0.00025	-0.00025
	(!A0 * A1 * !B0 * C0 * Y)	0.00018	0.00018	0.00018
	(!A0 * A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * C0 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * !B0 * C0 * Y)	-0.00022	-0.00021	-0.00020
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00030	0.00030	0.00030
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00003	-0.00003	-0.00003

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO221X3H7H	(A1 * B0 * B1 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * Y)	-0.00004	-0.00004	-0.00004
	(A1 * B0 * B1 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * B1 * Y)	0.00034	0.00035	0.00035
	(A0 * A1 * !B1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B1 * Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * !B1 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B1 * Y)	0.00035	0.00035	0.00035
	(A0 * A1 * !B0 * B1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * B1 * Y)	-0.00004	-0.00004	-0.00003
	(A0 * A1 * !B0 * B1 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B0 * B1 * Y)	0.00035	0.00035	0.00035
	(!A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * B0 * B1 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * B1 * Y)	0.00035	0.00035	0.00035

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO221X3H7H	(A1 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * Y)	0.00004	0.00004	0.00005
	(A1 * B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * Y)	-0.00035	-0.00035	-0.00034
	(A0 * A1 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * Y)	0.00004	0.00004	0.00005
	(A0 * A1 * !B1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B1 * Y)	-0.00035	-0.00035	-0.00035
	(A0 * A1 * !B0 * B1 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * !B0 * B1 * Y)	0.00003	0.00004	0.00004
	(A0 * A1 * !B0 * B1 * Y)	-0.00001	-0.00000	0.00000
	(A0 * A1 * !B0 * B1 * Y)	-0.00035	-0.00035	-0.00035
	(!A1 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * Y)	0.00004	0.00004	0.00004
	(!A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * Y)	-0.00035	-0.00034	-0.00034

AO221X4H7H

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

Truth Table

INPUT					OUTPUT
A0	A1	B0	B1	C0	Y
0	x	0	x	0	0
0	x	x	x	1	1
0	x	1	0	0	0
x	x	1	1	x	1
1	0	0	x	0	0
1	0	x	x	1	1
1	0	1	0	0	0
1	1	x	x	x	1

Footprint

Cell Name	Area
AO221X4H7H	3.92000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	A1	B0	B1	C0	Y
AO221X4H7H	0.00102	0.00108	0.00101	0.00105	0.00111	0.10915

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO221X4H7H	0.00000	0.06072	0.06535

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO221X4H7H	A0->Y (RR)	0.09622	0.28792	0.75286
	A1->Y (RR)	0.09344	0.28333	0.74200
	B0->Y (RR)	0.08967	0.27855	0.73667
	B1->Y (RR)	0.08697	0.27377	0.72506
	C0->Y (RR)	0.05253	0.23364	0.67383

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO221X4H7H	A0->Y (FF)	0.19071	0.36253	0.75309
	A1->Y (FF)	0.18115	0.35113	0.73831
	B0->Y (FF)	0.18025	0.35357	0.75433
	B1->Y (FF)	0.17053	0.34168	0.73794
	C0->Y (FF)	0.16257	0.32955	0.72025

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO221X4H7H	A0	0.00118	0.00130	0.00143
	A0	0.00018	0.00018	0.00018
	A0	-0.00009	-0.00009	-0.00009
	A0	0.00329	0.00342	0.00355
	A1	0.00117	0.00129	0.00143
	A1	0.00018	0.00018	0.00018
	A1	-0.00003	-0.00003	0.00001
	A1	0.00305	0.00317	0.00331
	B0	0.00118	0.00132	0.00144
	B0	0.00001	0.00005	0.00005
	B0	-0.00009	-0.00009	-0.00009
	B0	0.00296	0.00310	0.00322
	B1	0.00119	0.00131	0.00144
	B1	0.00005	0.00006	0.00011
	B1	-0.00003	-0.00003	-0.00003
	B1	0.00270	0.00283	0.00296
	C0	0.00118	0.00133	0.00145
	C0	-0.00005	-0.00005	-0.00004
	C0	-0.00003	-0.00003	-0.00003
	C0	0.00265	0.00280	0.00292

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO221X4H7H	A0	0.00367	0.00377	0.00389
	A0	-0.00018	-0.00017	-0.00016
	A0	0.00015	0.00015	0.00015
	A0	0.00144	0.00154	0.00167
	A1	0.00348	0.00360	0.00373
	A1	-0.00017	-0.00017	-0.00017
	A1	0.00009	0.00009	0.00009
	A1	0.00145	0.00157	0.00171
	B0	0.00320	0.00330	0.00341
	B0	-0.00005	-0.00005	-0.00001
	B0	0.00015	0.00015	0.00016
	B0	0.00141	0.00152	0.00163
	B1	0.00301	0.00312	0.00325
	B1	-0.00007	-0.00005	-0.00005
	B1	0.00009	0.00009	0.00009
	B1	0.00144	0.00156	0.00169
	C0	0.00275	0.00286	0.00300
	C0	0.00004	0.00005	0.00007
	C0	0.00015	0.00015	0.00015
	C0	0.00134	0.00146	0.00160

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X4H7H	**(A1 * B0 * B1 * C0 * Y)**	-0.00014	-0.00012	-0.00010
	(A1 * B0 * B1 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * B1 * C0 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * B1 * C0 * Y)	0.00032	0.00033	0.00033
	(A1 * B0 * B1 * !C0 * Y)	-0.00014	-0.00012	-0.00009
	(A1 * B0 * B1 * !C0 * Y)	-0.00004	-0.00003	-0.00003
	(A1 * B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !C0 * Y)	0.00033	0.00033	0.00033
	(A1 * !B1 * C0 * Y)	-0.00014	-0.00012	-0.00009
	(A1 * !B1 * C0 * Y)	-0.00004	-0.00003	-0.00003
	(A1 * !B1 * C0 * Y)	0.00000	0.00001	0.00001
	(A1 * !B1 * C0 * Y)	0.00033	0.00033	0.00033
	(A1 * !B0 * B1 * C0 * Y)	-0.00014	-0.00012	-0.00009
	(A1 * !B0 * B1 * C0 * Y)	-0.00004	-0.00003	-0.00003
	(A1 * !B0 * B1 * C0 * Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * B1 * C0 * Y)	0.00033	0.00033	0.00033
	(!A1 * B0 * B1 * Y)	-0.00020	-0.00020	-0.00019
	(!A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * B1 * Y)	0.00028	0.00029	0.00029
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	-0.00020	-0.00019	-0.00019
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	0.00028	0.00028	0.00029
	(!A1 * !B1 * !C0 * !Y)	-0.00024	-0.00024	-0.00024
	(!A1 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * !B1 * !C0 * !Y)	0.00024	0.00024	0.00024
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00024	-0.00024	-0.00024
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00024	0.00024	0.00024

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X4H7H	**(A1 * B0 * B1 * C0 * Y)**	0.00014	0.00014	0.00014
	(A1 * B0 * B1 * C0 * Y)	0.00003	0.00003	0.00003
	(A1 * B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * B1 * C0 * Y)	-0.00033	-0.00032	-0.00032
	(A1 * B0 * B1 * !C0 * Y)	0.00013	0.00014	0.00014
	(A1 * B0 * B1 * !C0 * Y)	0.00003	0.00004	0.00004
	(A1 * B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !C0 * Y)	-0.00033	-0.00032	-0.00032
	(A1 * !B1 * C0 * Y)	0.00013	0.00014	0.00014
	(A1 * !B1 * C0 * Y)	0.00003	0.00003	0.00004
	(A1 * !B1 * C0 * Y)	-0.00001	-0.00001	0.00000
	(A1 * !B1 * C0 * Y)	-0.00033	-0.00032	-0.00032
	(A1 * !B0 * B1 * C0 * Y)	0.00013	0.00014	0.00014
	(A1 * !B0 * B1 * C0 * Y)	0.00003	0.00004	0.00004
	(A1 * !B0 * B1 * C0 * Y)	-0.00001	-0.00001	0.00000
	(A1 * !B0 * B1 * C0 * Y)	-0.00033	-0.00032	-0.00032
	(!A1 * B0 * B1 * Y)	0.00019	0.00020	0.00020
	(!A1 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * B1 * Y)	-0.00029	-0.00028	-0.00026
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	0.00019	0.00020	0.00020
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00002
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	-0.00029	-0.00028	-0.00027
	(!A1 * !B1 * !C0 * !Y)	0.00024	0.00025	0.00025
	(!A1 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B1 * !C0 * !Y)	-0.00024	-0.00023	-0.00022
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00024	0.00025	0.00025
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00024	-0.00023	-0.00022

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X4H7H	**(A0 * B0 * B1 * C0 * Y)**	-0.00014	-0.00012	-0.00010
	(A0 * B0 * B1 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * B1 * C0 * Y)	0.00000	0.00001	0.00001
	(A0 * B0 * B1 * C0 * Y)	0.00032	0.00032	0.00032
	(A0 * B0 * B1 * !C0 * Y)	-0.00014	-0.00012	-0.00009
	(A0 * B0 * B1 * !C0 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * !C0 * Y)	0.00032	0.00032	0.00032
	(A0 * !B1 * C0 * Y)	-0.00014	-0.00012	-0.00010
	(A0 * !B1 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !B1 * C0 * Y)	0.00032	0.00032	0.00032
	(A0 * !B0 * B1 * C0 * Y)	-0.00014	-0.00012	-0.00010
	(A0 * !B0 * B1 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * !B0 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * B1 * C0 * Y)	0.00032	0.00032	0.00032
	(!A0 * B0 * B1 * C0 * Y)	-0.00019	-0.00019	-0.00018
	(!A0 * B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * B0 * B1 * C0 * Y)	0.00027	0.00028	0.00028
	(!A0 * B0 * B1 * !C0 * Y)	-0.00019	-0.00019	-0.00019
	(!A0 * B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * B0 * B1 * !C0 * Y)	0.00027	0.00028	0.00028
	(!A0 * !B1 * C0 * Y)	-0.00020	-0.00019	-0.00019
	(!A0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B1 * C0 * Y)	0.00027	0.00028	0.00028
	(!A0 * !B1 * !C0 * !Y)	-0.00032	-0.00032	-0.00031
	(!A0 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * !C0 * !Y)	0.00003	0.00004	0.00005
	(!A0 * !B1 * !C0 * !Y)	0.00006	0.00007	0.00007
	(!A0 * !B0 * B1 * C0 * Y)	-0.00019	-0.00019	-0.00019
	(!A0 * !B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * B1 * C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * B1 * C0 * Y)	0.00027	0.00028	0.00028
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00032	-0.00032	-0.00031
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00003	0.00004	0.00004
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00007	0.00007	0.00007

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X4H7H	**(A0 * B0 * B1 * C0 * Y)**	0.00014	0.00014	0.00014
	(A0 * B0 * B1 * C0 * Y)	0.00003	0.00003	0.00003
	(A0 * B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * B1 * C0 * Y)	-0.00032	-0.00032	-0.00031
	(A0 * B0 * B1 * !C0 * Y)	0.00014	0.00014	0.00015
	(A0 * B0 * B1 * !C0 * Y)	0.00002	0.00003	0.00003
	(A0 * B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * !C0 * Y)	-0.00032	-0.00032	-0.00031
	(A0 * !B1 * C0 * Y)	0.00014	0.00014	0.00014
	(A0 * !B1 * C0 * Y)	0.00003	0.00003	0.00003
	(A0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B1 * C0 * Y)	-0.00032	-0.00032	-0.00031
	(A0 * !B0 * B1 * C0 * Y)	0.00014	0.00014	0.00014
	(A0 * !B0 * B1 * C0 * Y)	0.00003	0.00003	0.00003
	(A0 * !B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * B1 * C0 * Y)	-0.00032	-0.00032	-0.00031
	(!A0 * B0 * B1 * C0 * Y)	0.00019	0.00019	0.00019
	(!A0 * B0 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * B0 * B1 * C0 * Y)	-0.00028	-0.00027	-0.00025
	(!A0 * B0 * B1 * !C0 * Y)	0.00019	0.00020	0.00020
	(!A0 * B0 * B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * B0 * B1 * !C0 * Y)	-0.00028	-0.00027	-0.00025
	(!A0 * !B1 * C0 * Y)	0.00019	0.00019	0.00020
	(!A0 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B1 * C0 * Y)	-0.00028	-0.00027	-0.00025
	(!A0 * !B1 * !C0 * !Y)	0.00032	0.00032	0.00032
	(!A0 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * !C0 * !Y)	-0.00005	-0.00004	-0.00003
	(!A0 * !B1 * !C0 * !Y)	-0.00007	-0.00007	-0.00006
	(!A0 * !B0 * B1 * C0 * Y)	0.00019	0.00019	0.00019
	(!A0 * !B0 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * B1 * C0 * Y)	-0.00028	-0.00027	-0.00025
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00032	0.00032	0.00032
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00004	-0.00003	-0.00003
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00007	-0.00007	-0.00006

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X4H7H	**(A0 * A1 * B1 * C0 * Y)**	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * C0 * Y)	-0.00010	-0.00009	-0.00008
	(A0 * A1 * B1 * C0 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B1 * C0 * Y)	0.00029	0.00029	0.00029
	(A0 * A1 * B1 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * !C0 * Y)	-0.00007	-0.00007	-0.00007
	(A0 * A1 * B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B1 * !C0 * Y)	0.00029	0.00029	0.00030
	(A0 * A1 * !B1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B1 * C0 * Y)	-0.00009	-0.00009	-0.00009
	(A0 * A1 * !B1 * C0 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B1 * C0 * Y)	0.00025	0.00026	0.00026
	(A0 * A1 * !B1 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * Y)	-0.00007	-0.00007	-0.00007
	(A0 * A1 * !B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B1 * !C0 * Y)	0.00026	0.00026	0.00026
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	-0.00025	-0.00025	-0.00024
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	0.00023	0.00023	0.00023
	(!A1 * B1 * C0 * Y)	-0.00019	-0.00016	-0.00013
	(!A1 * B1 * C0 * Y)	-0.00004	-0.00003	-0.00003
	(!A1 * B1 * C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * B1 * C0 * Y)	0.00027	0.00028	0.00028
	(!A1 * !B1 * !C0 * !Y)	-0.00026	-0.00026	-0.00026
	(!A1 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C0 * !Y)	0.00001	0.00002	0.00003
	(!A1 * !B1 * !C0 * !Y)	0.00022	0.00022	0.00022
	(!A0 * A1 * B1 * C0 * Y)	-0.00019	-0.00016	-0.00013
	(!A0 * A1 * B1 * C0 * Y)	-0.00004	-0.00003	-0.00002
	(!A0 * A1 * B1 * C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * B1 * C0 * Y)	0.00027	0.00028	0.00028
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00026	-0.00026	-0.00026
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00001	0.00002	0.00003
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00022	0.00022	0.00022

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X4H7H	**(A0 * A1 * B1 * C0 * Y)**	0.00000	0.00000	0.00001
	(A0 * A1 * B1 * C0 * Y)	0.00008	0.00009	0.00010
	(A0 * A1 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * B1 * C0 * Y)	-0.00029	-0.00029	-0.00029
	(A0 * A1 * B1 * !C0 * Y)	-0.00000	0.00000	0.00001
	(A0 * A1 * B1 * !C0 * Y)	0.00007	0.00008	0.00008
	(A0 * A1 * B1 * !C0 * Y)	-0.00001	-0.00001	0.00000
	(A0 * A1 * B1 * !C0 * Y)	-0.00029	-0.00029	-0.00029
	(A0 * A1 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * Y)	0.00009	0.00009	0.00009
	(A0 * A1 * !B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B1 * C0 * Y)	-0.00026	-0.00025	-0.00023
	(A0 * A1 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * Y)	0.00007	0.00007	0.00008
	(A0 * A1 * !B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B1 * !C0 * Y)	-0.00026	-0.00025	-0.00023
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	0.00024	0.00025	0.00025
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	-0.00023	-0.00022	-0.00021
	(!A1 * B1 * C0 * Y)	0.00018	0.00019	0.00019
	(!A1 * B1 * C0 * Y)	0.00003	0.00004	0.00004
	(!A1 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B1 * C0 * Y)	-0.00027	-0.00027	-0.00027
	(!A1 * !B1 * !C0 * !Y)	0.00026	0.00026	0.00027
	(!A1 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B1 * !C0 * !Y)	-0.00003	-0.00002	-0.00001
	(!A1 * !B1 * !C0 * !Y)	-0.00022	-0.00021	-0.00020
	(!A0 * A1 * B1 * C0 * Y)	0.00019	0.00019	0.00019
	(!A0 * A1 * B1 * C0 * Y)	0.00002	0.00003	0.00004
	(!A0 * A1 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * B1 * C0 * Y)	-0.00027	-0.00027	-0.00027
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00026	0.00026	0.00027
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00003	-0.00002	-0.00001
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00022	-0.00021	-0.00020

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X4H7H	**(A0 * A1 * B0 * C0 * Y)**	-0.00000	-0.00000	0.00000
	(A0 * A1 * B0 * C0 * Y)	-0.00009	-0.00009	-0.00009
	(A0 * A1 * B0 * C0 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B0 * C0 * Y)	0.00027	0.00027	0.00027
	(A0 * A1 * B0 * !C0 * Y)	-0.00000	0.00000	0.00001
	(A0 * A1 * B0 * !C0 * Y)	-0.00008	-0.00007	-0.00007
	(A0 * A1 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * !C0 * Y)	0.00026	0.00027	0.00027
	(A0 * A1 * !B0 * C0 * Y)	-0.00000	0.00000	0.00001
	(A0 * A1 * !B0 * C0 * Y)	-0.00009	-0.00009	-0.00009
	(A0 * A1 * !B0 * C0 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * C0 * Y)	0.00023	0.00023	0.00023
	(A0 * A1 * !B0 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * Y)	-0.00007	-0.00007	-0.00006
	(A0 * A1 * !B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * !C0 * Y)	0.00023	0.00023	0.00024
	(!A1 * B0 * C0 * Y)	-0.00018	-0.00015	-0.00013
	(!A1 * B0 * C0 * Y)	-0.00004	-0.00003	-0.00003
	(!A1 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * C0 * Y)	0.00025	0.00025	0.00025
	(!A1 * !B0 * C0 * Y)	-0.00024	-0.00023	-0.00023
	(!A1 * !B0 * C0 * Y)	-0.00002	-0.00001	-0.00001
	(!A1 * !B0 * C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * C0 * Y)	0.00021	0.00021	0.00021
	(!A1 * !B0 * !C0 * !Y)	-0.00033	-0.00033	-0.00033
	(!A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !C0 * !Y)	0.00003	0.00004	0.00004
	(!A1 * !B0 * !C0 * !Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * B0 * C0 * Y)	-0.00018	-0.00015	-0.00012
	(!A0 * A1 * B0 * C0 * Y)	-0.00004	-0.00003	-0.00003
	(!A0 * A1 * B0 * C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * B0 * C0 * Y)	0.00025	0.00025	0.00026
	(!A0 * A1 * !B0 * C0 * Y)	-0.00023	-0.00023	-0.00023
	(!A0 * A1 * !B0 * C0 * Y)	-0.00002	-0.00001	-0.00000
	(!A0 * A1 * !B0 * C0 * Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * !B0 * C0 * Y)	0.00021	0.00021	0.00021
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00033	-0.00033	-0.00033
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00004	0.00004	0.00005
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00002	0.00003	0.00003

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X4H7H	**(A0 * A1 * B0 * C0 * Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * Y)	0.00009	0.00009	0.00009
	(A0 * A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * B0 * C0 * Y)	-0.00027	-0.00027	-0.00026
	(A0 * A1 * B0 * !C0 * Y)	-0.00001	-0.00000	0.00000
	(A0 * A1 * B0 * !C0 * Y)	0.00007	0.00007	0.00008
	(A0 * A1 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B0 * !C0 * Y)	-0.00027	-0.00027	-0.00026
	(A0 * A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * C0 * Y)	0.00009	0.00009	0.00009
	(A0 * A1 * !B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * C0 * Y)	-0.00023	-0.00022	-0.00021
	(A0 * A1 * !B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * Y)	0.00007	0.00007	0.00007
	(A0 * A1 * !B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * !C0 * Y)	-0.00023	-0.00022	-0.00020
	(!A1 * B0 * C0 * Y)	0.00017	0.00018	0.00018
	(!A1 * B0 * C0 * Y)	0.00003	0.00003	0.00004
	(!A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * C0 * Y)	-0.00025	-0.00025	-0.00024
	(!A1 * !B0 * C0 * Y)	0.00023	0.00023	0.00024
	(!A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * C0 * Y)	-0.00021	-0.00020	-0.00019
	(!A1 * !B0 * !C0 * !Y)	0.00033	0.00033	0.00034
	(!A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C0 * !Y)	-0.00004	-0.00003	-0.00003
	(!A1 * !B0 * !C0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * A1 * B0 * C0 * Y)	0.00017	0.00018	0.00018
	(!A0 * A1 * B0 * C0 * Y)	0.00003	0.00003	0.00004
	(!A0 * A1 * B0 * C0 * Y)	-0.00001	-0.00001	0.00000
	(!A0 * A1 * B0 * C0 * Y)	-0.00025	-0.00025	-0.00024
	(!A0 * A1 * !B0 * C0 * Y)	0.00023	0.00023	0.00023
	(!A0 * A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * !B0 * C0 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * !B0 * C0 * Y)	-0.00021	-0.00020	-0.00019
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00033	0.00033	0.00033
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00004	-0.00003	-0.00003
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00003	-0.00003	-0.00002

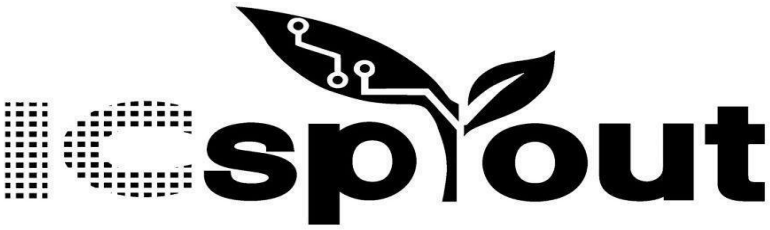
Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO221X4H7H	(A1 * B0 * B1 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * Y)	-0.00004	-0.00004	-0.00004
	(A1 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * Y)	0.00041	0.00041	0.00041
	(A0 * A1 * !B1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B1 * Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * !B1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * Y)	0.00041	0.00041	0.00041
	(A0 * A1 * !B0 * B1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * Y)	-0.00004	-0.00004	-0.00003
	(A0 * A1 * !B0 * B1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * B1 * Y)	0.00041	0.00041	0.00041
	(!A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * Y)	-0.00004	-0.00004	-0.00003
	(!A1 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * Y)	0.00041	0.00041	0.00041

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO221X4H7H	(A1 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * Y)	0.00004	0.00005	0.00006
	(A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * Y)	-0.00041	-0.00041	-0.00040
	(A0 * A1 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * Y)	0.00004	0.00005	0.00005
	(A0 * A1 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * Y)	-0.00041	-0.00041	-0.00040
	(A0 * A1 * !B0 * B1 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * !B0 * B1 * Y)	0.00003	0.00004	0.00005
	(A0 * A1 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B0 * B1 * Y)	-0.00041	-0.00041	-0.00040
	(!A1 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * Y)	0.00003	0.00004	0.00004
	(!A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * Y)	-0.00041	-0.00041	-0.00040

AO222X0P5H7H



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

Cell Description

AO

Y=(A0 & A1)(B0 & B1)(C0 & C1)

Truth Table

INPUT						OUTPUT
A0	A1	B0	B1	C0	C1	Y
0	x	0	x	0	x	0
0	x	0	x	1	0	0
0	x	x	x	1	1	1
0	x	1	0	0	x	0
0	x	1	0	1	0	0
x	x	1	1	x	x	1
1	0	0	x	0	x	0
1	0	0	x	1	0	0
1	0	x	x	1	1	1
1	0	1	0	0	x	0
1	0	1	0	1	0	0
1	1	x	x	x	x	1

Footprint

Cell Name	Area
AO222X0P5H7H	3.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	A1	B0	B1	C0	C1	Y
AO222X0P5H7H	0.00085	0.00088	0.00080	0.00084	0.00079	0.00093	0.03030

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO222X0P5H7H	0.00000	0.01880	0.02220

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO222X0P5H7H	A0->Y (RR)	0.11332	0.29750	0.75127
	A1->Y (RR)	0.11020	0.29506	0.74813
	B0->Y (RR)	0.10556	0.28723	0.73447
	B1->Y (RR)	0.10265	0.28454	0.72977
	C0->Y (RR)	0.09493	0.27348	0.71121
	C1->Y (RR)	0.09459	0.27279	0.70905

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO222X0P5H7H	A0->Y (FF)	0.22164	0.38206	0.75852
	A1->Y (FF)	0.21021	0.36867	0.74169
	B0->Y (FF)	0.20893	0.37020	0.75605
	B1->Y (FF)	0.19792	0.35730	0.73903
	C0->Y (FF)	0.17898	0.33417	0.70846
	C1->Y (FF)	0.17364	0.32592	0.69493

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO222X0P5H7H	A0	0.00039	0.00046	0.00052
	A0	0.00020	0.00020	0.00020
	A0	-0.00009	-0.00009	-0.00006
	A0	0.00247	0.00253	0.00260
	A1	0.00040	0.00046	0.00052
	A1	0.00020	0.00020	0.00020
	A1	-0.00005	-0.00005	-0.00004
	A1	0.00227	0.00233	0.00239
	B0	0.00042	0.00048	0.00053
	B0	0.00012	0.00012	0.00013
	B0	-0.00009	-0.00009	-0.00008
	B0	0.00219	0.00225	0.00231
	B1	0.00039	0.00045	0.00051
	B1	0.00012	0.00012	0.00012
	B1	-0.00005	-0.00005	-0.00004
	B1	0.00201	0.00207	0.00213
	C0	0.00044	0.00050	0.00055
	C0	0.00003	0.00003	0.00004
	C0	-0.00009	-0.00009	-0.00008
	C0	0.00193	0.00199	0.00204
	C1	0.00042	0.00049	0.00055
	C1	0.00002	0.00003	0.00005
	C1	-0.00005	-0.00005	-0.00004
	C1	0.00180	0.00186	0.00193

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO222X0P5H7H	A0	0.00270	0.00276	0.00282
	A0	-0.00019	-0.00019	-0.00019
	A0	0.00015	0.00016	0.00017
	A0	0.00055	0.00060	0.00066
	A1	0.00255	0.00262	0.00269
	A1	-0.00020	-0.00019	-0.00019
	A1	0.00012	0.00013	0.00013
	A1	0.00057	0.00064	0.00071
	B0	0.00233	0.00238	0.00244
	B0	-0.00011	-0.00011	-0.00010
	B0	0.00016	0.00016	0.00017
	B0	0.00056	0.00061	0.00067
	B1	0.00222	0.00228	0.00234
	B1	-0.00012	-0.00011	-0.00010
	B1	0.00012	0.00013	0.00013
	B1	0.00058	0.00064	0.00070
	C0	0.00192	0.00196	0.00202
	C0	-0.00003	-0.00003	-0.00002
	C0	0.00016	0.00016	0.00016
	C0	0.00050	0.00055	0.00060
	C1	0.00181	0.00188	0.00195
	C1	-0.00003	-0.00003	-0.00002
	C1	0.00012	0.00012	0.00013
	C1	0.00048	0.00054	0.00062

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X0P5H7H	**(A1 * B0 * B1 * C0 * C1 * Y)**	-0.00010	-0.00009	-0.00006
	(A1 * B0 * B1 * C0 * C1 * Y)	-0.00003	-0.00003	-0.00002
	(A1 * B0 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * B1 * C0 * C1 * Y)	0.00028	0.00028	0.00028
	(A1 * B0 * B1 * !C1 * Y)	-0.00010	-0.00009	-0.00007
	(A1 * B0 * B1 * !C1 * Y)	-0.00003	-0.00003	-0.00002
	(A1 * B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C1 * Y)	0.00028	0.00028	0.00028
	(A1 * B0 * B1 * !C0 * C1 * Y)	-0.00010	-0.00009	-0.00006
	(A1 * B0 * B1 * !C0 * C1 * Y)	-0.00003	-0.00003	-0.00002
	(A1 * B0 * B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C0 * C1 * Y)	0.00028	0.00028	0.00028
	(A1 * !B1 * C0 * C1 * Y)	-0.00010	-0.00008	-0.00006
	(A1 * !B1 * C0 * C1 * Y)	-0.00003	-0.00003	-0.00002
	(A1 * !B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * !B1 * C0 * C1 * Y)	0.00028	0.00028	0.00029
	(A1 * !B0 * B1 * C0 * C1 * Y)	-0.00010	-0.00008	-0.00006
	(A1 * !B0 * B1 * C0 * C1 * Y)	-0.00003	-0.00003	-0.00002
	(A1 * !B0 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * C0 * C1 * Y)	0.00028	0.00029	0.00029
	(!A1 * B0 * B1 * Y)	-0.00015	-0.00015	-0.00015
	(!A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * Y)	0.00025	0.00025	0.00025
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	-0.00015	-0.00015	-0.00015
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	0.00025	0.00025	0.00025
	(!A1 * !B1 * !C1 * !Y)	-0.00020	-0.00020	-0.00020
	(!A1 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B1 * !C1 * !Y)	0.00019	0.00020	0.00020
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00020	-0.00020	-0.00020
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00019	0.00020	0.00020
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00020	-0.00020	-0.00020
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	0.00000
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00019	0.00020	0.00021
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	-0.00020	-0.00020	-0.00020
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	0.00000
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	0.00019	0.00020	0.00020

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X0P5H7H	**(A1 * B0 * B1 * C0 * C1 * Y)**	0.00010	0.00010	0.00010
	(A1 * B0 * B1 * C0 * C1 * Y)	0.00002	0.00003	0.00003
	(A1 * B0 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * C0 * C1 * Y)	-0.00028	-0.00028	-0.00028
	(A1 * B0 * B1 * !C1 * Y)	0.00010	0.00010	0.00010
	(A1 * B0 * B1 * !C1 * Y)	0.00002	0.00003	0.00003
	(A1 * B0 * B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * !C1 * Y)	-0.00028	-0.00028	-0.00028
	(A1 * B0 * B1 * !C0 * C1 * Y)	0.00010	0.00010	0.00010
	(A1 * B0 * B1 * !C0 * C1 * Y)	0.00002	0.00003	0.00003
	(A1 * B0 * B1 * !C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * !C0 * C1 * Y)	-0.00028	-0.00028	-0.00028
	(A1 * !B1 * C0 * C1 * Y)	0.00009	0.00010	0.00010
	(A1 * !B1 * C0 * C1 * Y)	0.00003	0.00003	0.00003
	(A1 * !B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B1 * C0 * C1 * Y)	-0.00028	-0.00028	-0.00028
	(A1 * !B0 * B1 * C0 * C1 * Y)	0.00009	0.00010	0.00010
	(A1 * !B0 * B1 * C0 * C1 * Y)	0.00002	0.00003	0.00003
	(A1 * !B0 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * B1 * C0 * C1 * Y)	-0.00028	-0.00028	-0.00028
	(!A1 * B0 * B1 * Y)	0.00015	0.00015	0.00015
	(!A1 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * Y)	-0.00025	-0.00024	-0.00023
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	0.00015	0.00015	0.00015
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	-0.00025	-0.00024	-0.00024
	(!A1 * !B1 * !C1 * !Y)	0.00020	0.00020	0.00021
	(!A1 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C1 * !Y)	-0.00020	-0.00019	-0.00018
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00020	0.00020	0.00021
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00020	-0.00019	-0.00017
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00020	0.00020	0.00021
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00020	-0.00019	-0.00017
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	0.00020	0.00020	0.00021
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	-0.00020	-0.00019	-0.00017

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X0P5H7H	**(A0 * B0 * B1 * C0 * C1 * Y)**	-0.00010	-0.00008	-0.00007
	(A0 * B0 * B1 * C0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * C0 * C1 * Y)	0.00026	0.00026	0.00026
	(A0 * B0 * B1 * !C1 * Y)	-0.00010	-0.00008	-0.00006
	(A0 * B0 * B1 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !C1 * Y)	0.00026	0.00026	0.00026
	(A0 * B0 * B1 * !C0 * C1 * Y)	-0.00010	-0.00008	-0.00006
	(A0 * B0 * B1 * !C0 * C1 * Y)	-0.00003	-0.00002	-0.00002
	(A0 * B0 * B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00001
	(A0 * B0 * B1 * !C0 * C1 * Y)	0.00025	0.00026	0.00026
	(A0 * !B1 * C0 * C1 * Y)	-0.00009	-0.00008	-0.00006
	(A0 * !B1 * C0 * C1 * Y)	-0.00003	-0.00002	-0.00002
	(A0 * !B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !B1 * C0 * C1 * Y)	0.00026	0.00026	0.00026
	(A0 * !B0 * B1 * C0 * C1 * Y)	-0.00009	-0.00008	-0.00006
	(A0 * !B0 * B1 * C0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * B1 * C0 * C1 * Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * B1 * C0 * C1 * Y)	0.00026	0.00026	0.00026
	(!A0 * B0 * B1 * C0 * C1 * Y)	-0.00014	-0.00014	-0.00013
	(!A0 * B0 * B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * C0 * C1 * Y)	0.00022	0.00022	0.00022
	(!A0 * B0 * B1 * !C1 * Y)	-0.00014	-0.00014	-0.00013
	(!A0 * B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * !C1 * Y)	0.00022	0.00022	0.00022
	(!A0 * B0 * B1 * !C0 * C1 * Y)	-0.00014	-0.00014	-0.00013
	(!A0 * B0 * B1 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * B1 * !C0 * C1 * Y)	0.00001	0.00002	0.00002
	(!A0 * B0 * B1 * !C0 * C1 * Y)	0.00022	0.00022	0.00022
	(!A0 * !B1 * C0 * C1 * Y)	-0.00014	-0.00014	-0.00013
	(!A0 * !B1 * C0 * C1 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * C0 * C1 * Y)	0.00022	0.00022	0.00022
	(!A0 * !B1 * !C1 * !Y)	-0.00025	-0.00025	-0.00024
	(!A0 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * !C1 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !B1 * !C1 * !Y)	0.00004	0.00005	0.00005
	(!A0 * !B1 * !C0 * C1 * !Y)	-0.00025	-0.00025	-0.00024
	(!A0 * !B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * !C0 * C1 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !B1 * !C0 * C1 * !Y)	0.00004	0.00005	0.00005
	(!A0 * !B0 * B1 * C0 * C1 * Y)	-0.00014	-0.00014	-0.00013
	(!A0 * !B0 * B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * B1 * C0 * C1 * Y)	0.00001	0.00001	0.00002
	(!A0 * !B0 * B1 * C0 * C1 * Y)	0.00022	0.00022	0.00022
	(!A0 * !B0 * B1 * !C1 * !Y)	-0.00025	-0.00025	-0.00024
	(!A0 * !B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * B1 * !C1 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !B0 * B1 * !C1 * !Y)	0.00004	0.00005	0.00005
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	-0.00025	-0.00025	-0.00024
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	0.00004	0.00005	0.00005

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X0P5H7H	**(A0 * B0 * B1 * C0 * C1 * Y)**	0.00010	0.00010	0.00010
	(A0 * B0 * B1 * C0 * C1 * Y)	0.00002	0.00002	0.00002
	(A0 * B0 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * C0 * C1 * Y)	-0.00026	-0.00026	-0.00025
	(A0 * B0 * B1 * !C1 * Y)	0.00010	0.00010	0.00010
	(A0 * B0 * B1 * !C1 * Y)	0.00002	0.00002	0.00002
	(A0 * B0 * B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * !C1 * Y)	-0.00026	-0.00026	-0.00026
	(A0 * B0 * B1 * !C0 * C1 * Y)	0.00009	0.00010	0.00010
	(A0 * B0 * B1 * !C0 * C1 * Y)	0.00002	0.00002	0.00003
	(A0 * B0 * B1 * !C0 * C1 * Y)	-0.00001	-0.00000	0.00000
	(A0 * B0 * B1 * !C0 * C1 * Y)	-0.00026	-0.00026	-0.00025
	(A0 * !B1 * C0 * C1 * Y)	0.00009	0.00009	0.00009
	(A0 * !B1 * C0 * C1 * Y)	0.00002	0.00002	0.00003
	(A0 * !B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B1 * C0 * C1 * Y)	-0.00026	-0.00026	-0.00026
	(A0 * !B0 * B1 * C0 * C1 * Y)	0.00009	0.00009	0.00009
	(A0 * !B0 * B1 * C0 * C1 * Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * !B0 * B1 * C0 * C1 * Y)	-0.00026	-0.00026	-0.00026
	(!A0 * B0 * B1 * C0 * C1 * Y)	0.00014	0.00014	0.00014
	(!A0 * B0 * B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * C0 * C1 * Y)	-0.00022	-0.00022	-0.00021
	(!A0 * B0 * B1 * !C1 * Y)	0.00013	0.00014	0.00014
	(!A0 * B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00002
	(!A0 * B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * !C1 * Y)	-0.00022	-0.00021	-0.00021
	(!A0 * B0 * B1 * !C0 * C1 * Y)	0.00013	0.00014	0.00014
	(!A0 * B0 * B1 * !C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * !C0 * C1 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * B0 * B1 * !C0 * C1 * Y)	-0.00022	-0.00021	-0.00021
	(!A0 * !B1 * C0 * C1 * Y)	0.00013	0.00014	0.00014
	(!A0 * !B1 * C0 * C1 * Y)	0.00001	0.00001	0.00002
	(!A0 * !B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * C0 * C1 * Y)	-0.00022	-0.00021	-0.00021
	(!A0 * !B1 * !C1 * !Y)	0.00025	0.00025	0.00025
	(!A0 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * !C1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !B1 * !C1 * !Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !B1 * !C0 * C1 * !Y)	0.00025	0.00025	0.00025
	(!A0 * !B1 * !C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * !C0 * C1 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * !B1 * !C0 * C1 * !Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !B0 * B1 * C0 * C1 * Y)	0.00014	0.00014	0.00014
	(!A0 * !B0 * B1 * C0 * C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * B1 * C0 * C1 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !B0 * B1 * C0 * C1 * Y)	-0.00022	-0.00022	-0.00021
	(!A0 * !B0 * B1 * !C1 * !Y)	0.00025	0.00025	0.00025
	(!A0 * !B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * B1 * !C1 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * !B0 * B1 * !C1 * !Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	0.00025	0.00025	0.00025
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	-0.00005	-0.00005	-0.00004

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X0P5H7H	**(A0 * A1 * B1 * C0 * C1 * Y)**	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * C0 * C1 * Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * B1 * C0 * C1 * Y)	0.00025	0.00025	0.00027
	(A0 * A1 * B1 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C1 * Y)	-0.00005	-0.00004	-0.00004
	(A0 * A1 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C1 * Y)	0.00025	0.00025	0.00025
	(A0 * A1 * B1 * !C0 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * Y)	0.00024	0.00025	0.00025
	(A0 * A1 * !B1 * C0 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * C1 * Y)	-0.00006	-0.00005	-0.00005
	(A0 * A1 * !B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * C0 * C1 * Y)	0.00022	0.00022	0.00022
	(A0 * A1 * !B1 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * !B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !C1 * Y)	0.00022	0.00022	0.00022
	(A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * !B1 * !C0 * C1 * Y)	0.00001	0.00001	0.00002
	(A0 * A1 * !B1 * !C0 * C1 * Y)	0.00022	0.00022	0.00022
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	-0.00016	-0.00016	-0.00016
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	0.00020	0.00020	0.00020
	(!A1 * B1 * C0 * C1 * Y)	-0.00012	-0.00011	-0.00009
	(!A1 * B1 * C0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B1 * C0 * C1 * Y)	0.00023	0.00024	0.00024
	(!A1 * !B1 * !C1 * !Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C1 * !Y)	0.00017	0.00017	0.00017
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00017	0.00017	0.00017
	(!A0 * A1 * B1 * C0 * C1 * Y)	-0.00012	-0.00011	-0.00009
	(!A0 * A1 * B1 * C0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * C1 * Y)	0.00023	0.00024	0.00024
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00019	-0.00019	-0.00019
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00017	0.00017	0.00017
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00019	-0.00019	-0.00019
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00017	0.00017	0.00017

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X0P5H7H	**(A0 * A1 * B1 * C0 * C1 * Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * C1 * Y)	0.00005	0.00005	0.00005
	(A0 * A1 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * C0 * C1 * Y)	-0.00025	-0.00025	-0.00025
	(A0 * A1 * B1 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C1 * Y)	0.00004	0.00004	0.00005
	(A0 * A1 * B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * !C1 * Y)	-0.00025	-0.00025	-0.00025
	(A0 * A1 * B1 * !C0 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * Y)	0.00004	0.00005	0.00005
	(A0 * A1 * B1 * !C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * Y)	-0.00025	-0.00025	-0.00024
	(A0 * A1 * !B1 * C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B1 * C0 * C1 * Y)	0.00005	0.00005	0.00006
	(A0 * A1 * !B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * C0 * C1 * Y)	-0.00022	-0.00022	-0.00021
	(A0 * A1 * !B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * Y)	0.00004	0.00004	0.00004
	(A0 * A1 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C1 * Y)	-0.00022	-0.00022	-0.00020
	(A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * C1 * Y)	0.00004	0.00004	0.00004
	(A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00002	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00022	-0.00021	-0.00020
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	0.00016	0.00016	0.00016
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	-0.00020	-0.00019	-0.00018
	(!A1 * B1 * C0 * C1 * Y)	0.00012	0.00012	0.00012
	(!A1 * B1 * C0 * C1 * Y)	0.00002	0.00002	0.00002
	(!A1 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B1 * C0 * C1 * Y)	-0.00024	-0.00023	-0.00023
	(!A1 * !B1 * !C1 * !Y)	0.00019	0.00019	0.00020
	(!A1 * !B1 * !C1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C1 * !Y)	-0.00017	-0.00016	-0.00015
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00019	0.00019	0.00020
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00000	0.00001	0.00002
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00017	-0.00016	-0.00015
	(!A0 * A1 * B1 * C0 * C1 * Y)	0.00012	0.00012	0.00012
	(!A0 * A1 * B1 * C0 * C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * B1 * C0 * C1 * Y)	-0.00024	-0.00023	-0.00023
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00019	0.00019	0.00020
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00017	-0.00016	-0.00015
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00019	0.00019	0.00020
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00000	0.00001	0.00002
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00017	-0.00016	-0.00015

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X0P5H7H	**(A0 * A1 * B0 * C0 * C1 * Y)**	-0.00000	-0.00000	0.00000
	(A0 * A1 * B0 * C0 * C1 * Y)	-0.00006	-0.00006	-0.00006
	(A0 * A1 * B0 * C0 * C1 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * B0 * C0 * C1 * Y)	0.00023	0.00023	0.00023
	(A0 * A1 * B0 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C1 * Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * B0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C1 * Y)	0.00023	0.00023	0.00023
	(A0 * A1 * B0 * !C0 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * C1 * Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * B0 * !C0 * C1 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * B0 * !C0 * C1 * Y)	0.00022	0.00023	0.00023
	(A0 * A1 * !B0 * C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * C0 * C1 * Y)	-0.00006	-0.00006	-0.00006
	(A0 * A1 * !B0 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * C0 * C1 * Y)	0.00020	0.00020	0.00020
	(A0 * A1 * !B0 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C1 * Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * !B0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * !C1 * Y)	0.00020	0.00020	0.00020
	(A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * !B0 * !C0 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * !C0 * C1 * Y)	0.00020	0.00020	0.00020
	(!A1 * B0 * C0 * C1 * Y)	-0.00015	-0.00014	-0.00011
	(!A1 * B0 * C0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * C0 * C1 * Y)	0.00021	0.00021	0.00022
	(!A1 * !B0 * C0 * C1 * Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * C1 * Y)	0.00017	0.00017	0.00017
	(!A1 * !B0 * !C1 * !Y)	-0.00027	-0.00027	-0.00027
	(!A1 * !B0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !C1 * !Y)	0.00002	0.00003	0.00003
	(!A1 * !B0 * !C1 * !Y)	0.00003	0.00003	0.00004
	(!A1 * !B0 * !C0 * C1 * !Y)	-0.00027	-0.00027	-0.00027
	(!A1 * !B0 * !C0 * C1 * !Y)	-0.00001	-0.00001	0.00000
	(!A1 * !B0 * !C0 * C1 * !Y)	0.00002	0.00003	0.00003
	(!A1 * !B0 * !C0 * C1 * !Y)	0.00003	0.00003	0.00004
	(!A0 * A1 * B0 * C0 * C1 * Y)	-0.00015	-0.00014	-0.00012
	(!A0 * A1 * B0 * C0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * B0 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * C0 * C1 * Y)	0.00021	0.00021	0.00022
	(!A0 * A1 * !B0 * C0 * C1 * Y)	-0.00019	-0.00019	-0.00019
	(!A0 * A1 * !B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B0 * C0 * C1 * Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * !B0 * C0 * C1 * Y)	0.00017	0.00017	0.00017
	(!A0 * A1 * !B0 * !C1 * !Y)	-0.00027	-0.00027	-0.00027
	(!A0 * A1 * !B0 * !C1 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * A1 * !B0 * !C1 * !Y)	0.00002	0.00003	0.00003
	(!A0 * A1 * !B0 * !C1 * !Y)	0.00003	0.00003	0.00004
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00027	-0.00027	-0.00027
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00001	-0.00001	0.00000
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00002	0.00003	0.00003
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00003	0.00003	0.00004

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X0P5H7H	**(A0 * A1 * B0 * C0 * C1 * Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * C1 * Y)	0.00006	0.00006	0.00006
	(A0 * A1 * B0 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * C0 * C1 * Y)	-0.00023	-0.00023	-0.00022
	(A0 * A1 * B0 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C1 * Y)	0.00005	0.00005	0.00005
	(A0 * A1 * B0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * !C1 * Y)	-0.00023	-0.00023	-0.00023
	(A0 * A1 * B0 * !C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B0 * !C0 * C1 * Y)	0.00005	0.00005	0.00006
	(A0 * A1 * B0 * !C0 * C1 * Y)	-0.00001	-0.00000	-0.00000
	(A0 * A1 * B0 * !C0 * C1 * Y)	-0.00023	-0.00023	-0.00022
	(A0 * A1 * !B0 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * C0 * C1 * Y)	0.00006	0.00006	0.00006
	(A0 * A1 * !B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * C0 * C1 * Y)	-0.00020	-0.00019	-0.00018
	(A0 * A1 * !B0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C1 * Y)	0.00005	0.00005	0.00005
	(A0 * A1 * !B0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * !C1 * Y)	-0.00020	-0.00019	-0.00018
	(A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * C1 * Y)	0.00005	0.00005	0.00005
	(A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00020	-0.00019	-0.00018
	(!A1 * B0 * C0 * C1 * Y)	0.00015	0.00015	0.00015
	(!A1 * B0 * C0 * C1 * Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * C0 * C1 * Y)	-0.00021	-0.00021	-0.00021
	(!A1 * !B0 * C0 * C1 * Y)	0.00019	0.00019	0.00019
	(!A1 * !B0 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * C1 * Y)	-0.00017	-0.00017	-0.00016
	(!A1 * !B0 * !C1 * !Y)	0.00027	0.00027	0.00027
	(!A1 * !B0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * !C0 * C1 * !Y)	0.00027	0.00027	0.00027
	(!A1 * !B0 * !C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !C0 * C1 * !Y)	-0.00004	-0.00003	-0.00003
	(!A0 * A1 * B0 * C0 * C1 * Y)	0.00015	0.00015	0.00015
	(!A0 * A1 * B0 * C0 * C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * B0 * C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * B0 * C0 * C1 * Y)	-0.00021	-0.00021	-0.00021
	(!A0 * A1 * !B0 * C0 * C1 * Y)	0.00019	0.00019	0.00020
	(!A0 * A1 * !B0 * C0 * C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B0 * C0 * C1 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * A1 * !B0 * C0 * C1 * Y)	-0.00017	-0.00017	-0.00016
	(!A0 * A1 * !B0 * !C1 * !Y)	0.00027	0.00027	0.00027
	(!A0 * A1 * !B0 * !C1 * !Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * !B0 * !C1 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * A1 * !B0 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00027	0.00027	0.00027
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00004	-0.00003	-0.00003

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X0P5H7H	**(A1 * B0 * B1 * C1 * Y)**	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C1 * Y)	0.00029	0.00029	0.00029
	(A1 * B0 * B1 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !C1 * Y)	0.00026	0.00026	0.00026
	(A0 * A1 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B1 * C1 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * A1 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C1 * Y)	0.00029	0.00029	0.00029
	(A0 * A1 * !B1 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !C1 * Y)	0.00026	0.00026	0.00026
	(A0 * A1 * !B0 * B1 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C1 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * A1 * !B0 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C1 * Y)	0.00029	0.00029	0.00029
	(A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * B1 * !C1 * Y)	0.00026	0.00026	0.00026
	(!A1 * B0 * B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * C1 * Y)	-0.00003	-0.00003	-0.00002
	(!A1 * B0 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * C1 * Y)	0.00029	0.00029	0.00029
	(!A1 * B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C1 * Y)	0.00026	0.00026	0.00026
	(!A1 * !B1 * !C1 * !Y)	-0.00018	-0.00018	-0.00018
	(!A1 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C1 * !Y)	0.00017	0.00017	0.00017
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00018	-0.00018	-0.00018
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00017	0.00017	0.00017
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00018	-0.00018	-0.00018
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00017	0.00017	0.00017
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00018	-0.00018	-0.00018
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00017	0.00017	0.00017

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X0P5H7H	**(A1 * B0 * B1 * C1 * Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C1 * Y)	0.00003	0.00003	0.00004
	(A1 * B0 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * C1 * Y)	-0.00029	-0.00028	-0.00028
	(A1 * B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C1 * Y)	0.00003	0.00003	0.00003
	(A1 * B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !C1 * Y)	-0.00026	-0.00026	-0.00024
	(A0 * A1 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C1 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B1 * C1 * Y)	-0.00029	-0.00028	-0.00028
	(A0 * A1 * !B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C1 * Y)	-0.00026	-0.00026	-0.00025
	(A0 * A1 * !B0 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C1 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B0 * B1 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C1 * Y)	-0.00029	-0.00028	-0.00028
	(A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C1 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00026	-0.00025	-0.00024
	(!A1 * B0 * B1 * C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * C1 * Y)	0.00003	0.00003	0.00003
	(!A1 * B0 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * C1 * Y)	-0.00029	-0.00028	-0.00028
	(!A1 * B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C1 * Y)	0.00003	0.00003	0.00003
	(!A1 * B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !C1 * Y)	-0.00026	-0.00025	-0.00024
	(!A1 * !B1 * !C1 * !Y)	0.00018	0.00019	0.00019
	(!A1 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C1 * !Y)	-0.00017	-0.00016	-0.00014
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00018	0.00019	0.00019
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00017	-0.00016	-0.00014
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00018	0.00019	0.00019
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00017	-0.00016	-0.00014
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00018	0.00019	0.00019
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00017	-0.00016	-0.00014

Passive power(pJ) for C1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X0P5H7H	**(A1 * B0 * B1 * C0 * Y)**	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C0 * Y)	0.00034	0.00034	0.00034
	(A1 * B0 * B1 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * !C0 * Y)	-0.00003	-0.00003	-0.00002
	(A1 * B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !C0 * Y)	0.00031	0.00031	0.00031
	(A0 * A1 * !B1 * C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * A1 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * Y)	0.00034	0.00034	0.00034
	(A0 * A1 * !B1 * !C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !C0 * Y)	0.00031	0.00031	0.00031
	(A0 * A1 * !B0 * B1 * C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B0 * B1 * C0 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B0 * B1 * C0 * Y)	0.00034	0.00034	0.00034
	(A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * A1 * !B0 * B1 * !C0 * Y)	0.00001	0.00002	0.00002
	(A0 * A1 * !B0 * B1 * !C0 * Y)	0.00031	0.00031	0.00031
	(!A1 * B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * C0 * Y)	-0.00003	-0.00003	-0.00002
	(!A1 * B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * C0 * Y)	0.00034	0.00034	0.00034
	(!A1 * B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C0 * Y)	0.00031	0.00031	0.00031
	(!A1 * !B1 * !C0 * !Y)	-0.00029	-0.00029	-0.00029
	(!A1 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C0 * !Y)	0.00002	0.00003	0.00003
	(!A1 * !B1 * !C0 * !Y)	0.00004	0.00004	0.00005
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00029	-0.00029	-0.00029
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00002	0.00003	0.00003
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00004	0.00004	0.00005
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00029	-0.00029	-0.00029
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00004	0.00004	0.00005
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00029	-0.00029	-0.00029
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00003	0.00004	0.00004

Passive power(pJ) for C1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X0P5H7H	**(A1 * B0 * B1 * C0 * Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C0 * Y)	0.00003	0.00003	0.00003
	(A1 * B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * C0 * Y)	-0.00034	-0.00034	-0.00034
	(A1 * B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C0 * Y)	0.00003	0.00003	0.00003
	(A1 * B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !C0 * Y)	-0.00031	-0.00031	-0.00029
	(A0 * A1 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * Y)	0.00002	0.00003	0.00003
	(A0 * A1 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B1 * C0 * Y)	-0.00034	-0.00034	-0.00034
	(A0 * A1 * !B1 * !C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C0 * Y)	-0.00031	-0.00030	-0.00029
	(A0 * A1 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C0 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B0 * B1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C0 * Y)	-0.00034	-0.00034	-0.00034
	(A0 * A1 * !B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C0 * Y)	0.00002	0.00003	0.00003
	(A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00002	-0.00001	-0.00001
	(A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00031	-0.00031	-0.00030
	(!A1 * B0 * B1 * C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * B1 * C0 * Y)	0.00003	0.00003	0.00004
	(!A1 * B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * C0 * Y)	-0.00034	-0.00034	-0.00034
	(!A1 * B0 * B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * B1 * !C0 * Y)	0.00003	0.00003	0.00003
	(!A1 * B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !C0 * Y)	-0.00031	-0.00030	-0.00029
	(!A1 * !B1 * !C0 * !Y)	0.00029	0.00029	0.00029
	(!A1 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C0 * !Y)	-0.00003	-0.00002	-0.00002
	(!A1 * !B1 * !C0 * !Y)	-0.00004	-0.00004	-0.00003
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00029	0.00029	0.00029
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00003	-0.00002	-0.00002
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00004	-0.00004	-0.00003
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00029	0.00029	0.00029
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00004	-0.00004	-0.00003
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00029	0.00029	0.00029
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00004	-0.00004	-0.00003

AO222X0P7H7H

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

Cell Description

AO

Y=(A0 & A1)(B0 & B1)(C0 & C1)

Truth Table

INPUT						OUTPUT
A0	A1	B0	B1	C0	C1	Y
0	x	0	x	0	x	0
0	x	0	x	1	0	0
0	x	x	x	1	1	1
0	x	1	0	0	x	0
0	x	1	0	1	0	0
x	x	1	1	x	x	1
1	0	0	x	0	x	0
1	0	0	x	1	0	0
1	0	x	x	1	1	1
1	0	1	0	0	x	0
1	0	1	0	1	0	0
1	1	x	x	x	x	1

Footprint

Cell Name	Area
AO222X0P7H7H	3.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	A1	B0	B1	C0	C1	Y
AO222X0P7H7H	0.00086	0.00088	0.00080	0.00084	0.00079	0.00093	0.03465

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO222X0P7H7H	0.00000	0.01985	0.02425

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO222X0P7H7H	A0->Y (RR)	0.11202	0.29791	0.75478
	A1->Y (RR)	0.10879	0.29547	0.75172
	B0->Y (RR)	0.10421	0.28759	0.73766
	B1->Y (RR)	0.10130	0.28497	0.73442
	C0->Y (RR)	0.09360	0.27387	0.71508
	C1->Y (RR)	0.09325	0.27323	0.71239

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO222X0P7H7H	A0->Y (FF)	0.22236	0.38546	0.76606
	A1->Y (FF)	0.21081	0.37194	0.74907
	B0->Y (FF)	0.20955	0.37352	0.76370
	B1->Y (FF)	0.19851	0.36060	0.74684
	C0->Y (FF)	0.17962	0.33761	0.71666
	C1->Y (FF)	0.17416	0.32931	0.70308

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO222X0P7H7H	A0	0.00042	0.00049	0.00055
	A0	0.00020	0.00020	0.00020
	A0	-0.00008	-0.00008	-0.00006
	A0	0.00250	0.00257	0.00263
	A1	0.00043	0.00049	0.00055
	A1	0.00020	0.00020	0.00020
	A1	-0.00005	-0.00005	-0.00003
	A1	0.00229	0.00235	0.00242
	B0	0.00045	0.00051	0.00057
	B0	0.00012	0.00012	0.00014
	B0	-0.00009	-0.00009	-0.00008
	B0	0.00222	0.00228	0.00234
	B1	0.00042	0.00048	0.00054
	B1	0.00011	0.00012	0.00013
	B1	-0.00005	-0.00005	-0.00003
	B1	0.00203	0.00210	0.00216
	C0	0.00047	0.00053	0.00059
	C0	0.00002	0.00003	0.00003
	C0	-0.00008	-0.00008	-0.00008
	C0	0.00196	0.00202	0.00207
	C1	0.00045	0.00052	0.00059
	C1	0.00002	0.00003	0.00003
	C1	-0.00005	-0.00005	-0.00004
	C1	0.00183	0.00189	0.00196

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO222X0P7H7H	A0	0.00273	0.00279	0.00285
	A0	-0.00020	-0.00019	-0.00018
	A0	0.00015	0.00016	0.00017
	A0	0.00057	0.00063	0.00069
	A1	0.00258	0.00265	0.00271
	A1	-0.00019	-0.00018	-0.00018
	A1	0.00012	0.00012	0.00012
	A1	0.00060	0.00067	0.00074
	B0	0.00236	0.00241	0.00247
	B0	-0.00011	-0.00011	-0.00008
	B0	0.00015	0.00016	0.00017
	B0	0.00059	0.00064	0.00070
	B1	0.00225	0.00230	0.00237
	B1	-0.00011	-0.00011	-0.00008
	B1	0.00012	0.00012	0.00013
	B1	0.00061	0.00067	0.00073
	C0	0.00194	0.00199	0.00205
	C0	-0.00003	-0.00003	-0.00001
	C0	0.00016	0.00016	0.00016
	C0	0.00053	0.00058	0.00064
	C1	0.00184	0.00190	0.00198
	C1	-0.00003	-0.00003	-0.00001
	C1	0.00012	0.00012	0.00012
	C1	0.00051	0.00057	0.00065

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X0P7H7H	**(A1 * B0 * B1 * C0 * C1 * Y)**	-0.00010	-0.00009	-0.00006
	(A1 * B0 * B1 * C0 * C1 * Y)	-0.00003	-0.00002	-0.00002
	(A1 * B0 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C0 * C1 * Y)	0.00028	0.00029	0.00029
	(A1 * B0 * B1 * !C1 * Y)	-0.00010	-0.00009	-0.00007
	(A1 * B0 * B1 * !C1 * Y)	-0.00003	-0.00003	-0.00002
	(A1 * B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C1 * Y)	0.00028	0.00028	0.00029
	(A1 * B0 * B1 * !C0 * C1 * Y)	-0.00010	-0.00009	-0.00006
	(A1 * B0 * B1 * !C0 * C1 * Y)	-0.00003	-0.00003	-0.00002
	(A1 * B0 * B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C0 * C1 * Y)	0.00028	0.00028	0.00029
	(A1 * !B1 * C0 * C1 * Y)	-0.00010	-0.00008	-0.00006
	(A1 * !B1 * C0 * C1 * Y)	-0.00003	-0.00003	-0.00002
	(A1 * !B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * !B1 * C0 * C1 * Y)	0.00029	0.00029	0.00029
	(A1 * !B0 * B1 * C0 * C1 * Y)	-0.00010	-0.00008	-0.00006
	(A1 * !B0 * B1 * C0 * C1 * Y)	-0.00003	-0.00003	-0.00002
	(A1 * !B0 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * C0 * C1 * Y)	0.00029	0.00029	0.00029
	(!A1 * B0 * B1 * Y)	-0.00015	-0.00015	-0.00015
	(!A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * Y)	0.00025	0.00025	0.00026
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	-0.00015	-0.00015	-0.00015
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	0.00025	0.00025	0.00025
	(!A1 * !B1 * !C1 * !Y)	-0.00020	-0.00020	-0.00020
	(!A1 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B1 * !C1 * !Y)	0.00020	0.00020	0.00020
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00020	-0.00020	-0.00020
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00020	0.00020	0.00020
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00020	-0.00020	-0.00020
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00020	0.00020	0.00020
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	-0.00020	-0.00020	-0.00020
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	0.00020	0.00020	0.00020

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X0P7H7H	**(A1 * B0 * B1 * C0 * C1 * Y)**	0.00010	0.00010	0.00011
	(A1 * B0 * B1 * C0 * C1 * Y)	0.00002	0.00002	0.00003
	(A1 * B0 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * C0 * C1 * Y)	-0.00028	-0.00028	-0.00028
	(A1 * B0 * B1 * !C1 * Y)	0.00010	0.00010	0.00010
	(A1 * B0 * B1 * !C1 * Y)	0.00002	0.00003	0.00003
	(A1 * B0 * B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * !C1 * Y)	-0.00029	-0.00028	-0.00028
	(A1 * B0 * B1 * !C0 * C1 * Y)	0.00010	0.00010	0.00010
	(A1 * B0 * B1 * !C0 * C1 * Y)	0.00002	0.00003	0.00003
	(A1 * B0 * B1 * !C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * !C0 * C1 * Y)	-0.00028	-0.00028	-0.00028
	(A1 * !B1 * C0 * C1 * Y)	0.00009	0.00010	0.00010
	(A1 * !B1 * C0 * C1 * Y)	0.00003	0.00003	0.00003
	(A1 * !B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B1 * C0 * C1 * Y)	-0.00029	-0.00029	-0.00028
	(A1 * !B0 * B1 * C0 * C1 * Y)	0.00010	0.00010	0.00010
	(A1 * !B0 * B1 * C0 * C1 * Y)	0.00002	0.00003	0.00003
	(A1 * !B0 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * B1 * C0 * C1 * Y)	-0.00029	-0.00029	-0.00028
	(!A1 * B0 * B1 * Y)	0.00015	0.00015	0.00015
	(!A1 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * Y)	-0.00025	-0.00025	-0.00024
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	0.00015	0.00015	0.00015
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	0.00001	0.00001	0.00002
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	-0.00025	-0.00025	-0.00023
	(!A1 * !B1 * !C1 * !Y)	0.00020	0.00020	0.00021
	(!A1 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C1 * !Y)	-0.00002	-0.00001	-0.00001
	(!A1 * !B1 * !C1 * !Y)	-0.00020	-0.00019	-0.00017
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00020	0.00020	0.00021
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00002	-0.00001	-0.00001
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00020	-0.00019	-0.00017
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00020	0.00020	0.00021
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00020	-0.00019	-0.00017
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	0.00020	0.00020	0.00021
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	-0.00020	-0.00019	-0.00017

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X0P7H7H	**(A0 * B0 * B1 * C0 * C1 * Y)**	-0.00010	-0.00008	-0.00006
	(A0 * B0 * B1 * C0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * C0 * C1 * Y)	0.00026	0.00026	0.00026
	(A0 * B0 * B1 * !C1 * Y)	-0.00010	-0.00008	-0.00006
	(A0 * B0 * B1 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !C1 * Y)	0.00026	0.00026	0.00026
	(A0 * B0 * B1 * !C0 * C1 * Y)	-0.00010	-0.00008	-0.00006
	(A0 * B0 * B1 * !C0 * C1 * Y)	-0.00003	-0.00002	-0.00002
	(A0 * B0 * B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00001
	(A0 * B0 * B1 * !C0 * C1 * Y)	0.00025	0.00026	0.00026
	(A0 * !B1 * C0 * C1 * Y)	-0.00009	-0.00008	-0.00006
	(A0 * !B1 * C0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !B1 * C0 * C1 * Y)	0.00026	0.00026	0.00026
	(A0 * !B0 * B1 * C0 * C1 * Y)	-0.00009	-0.00008	-0.00006
	(A0 * !B0 * B1 * C0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * B1 * C0 * C1 * Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * B1 * C0 * C1 * Y)	0.00026	0.00026	0.00026
	(!A0 * B0 * B1 * C0 * C1 * Y)	-0.00014	-0.00014	-0.00013
	(!A0 * B0 * B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * C0 * C1 * Y)	0.00022	0.00022	0.00022
	(!A0 * B0 * B1 * !C1 * Y)	-0.00014	-0.00014	-0.00013
	(!A0 * B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * !C1 * Y)	0.00022	0.00022	0.00022
	(!A0 * B0 * B1 * !C0 * C1 * Y)	-0.00014	-0.00014	-0.00013
	(!A0 * B0 * B1 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * B1 * !C0 * C1 * Y)	0.00001	0.00002	0.00002
	(!A0 * B0 * B1 * !C0 * C1 * Y)	0.00022	0.00022	0.00022
	(!A0 * !B1 * C0 * C1 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * C0 * C1 * Y)	0.00022	0.00022	0.00022
	(!A0 * !B1 * !C1 * !Y)	-0.00025	-0.00025	-0.00024
	(!A0 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * !C1 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !B1 * !C1 * !Y)	0.00004	0.00004	0.00005
	(!A0 * !B1 * !C0 * C1 * !Y)	-0.00025	-0.00025	-0.00024
	(!A0 * !B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * !C0 * C1 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !B1 * !C0 * C1 * !Y)	0.00004	0.00004	0.00005
	(!A0 * !B0 * B1 * C0 * C1 * Y)	-0.00014	-0.00014	-0.00013
	(!A0 * !B0 * B1 * C0 * C1 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !B0 * B1 * C0 * C1 * Y)	0.00001	0.00001	0.00002
	(!A0 * !B0 * B1 * C0 * C1 * Y)	0.00022	0.00022	0.00022
	(!A0 * !B0 * B1 * !C1 * !Y)	-0.00025	-0.00025	-0.00024
	(!A0 * !B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * B1 * !C1 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !B0 * B1 * !C1 * !Y)	0.00004	0.00004	0.00005
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	-0.00025	-0.00025	-0.00024
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	0.00004	0.00004	0.00005

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X0P7H7H	**(A0 * B0 * B1 * C0 * C1 * Y)**	0.00010	0.00010	0.00010
	(A0 * B0 * B1 * C0 * C1 * Y)	0.00002	0.00002	0.00002
	(A0 * B0 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * C0 * C1 * Y)	-0.00026	-0.00026	-0.00025
	(A0 * B0 * B1 * !C1 * Y)	0.00010	0.00010	0.00010
	(A0 * B0 * B1 * !C1 * Y)	0.00002	0.00002	0.00002
	(A0 * B0 * B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * !C1 * Y)	-0.00026	-0.00026	-0.00026
	(A0 * B0 * B1 * !C0 * C1 * Y)	0.00009	0.00010	0.00010
	(A0 * B0 * B1 * !C0 * C1 * Y)	0.00002	0.00002	0.00003
	(A0 * B0 * B1 * !C0 * C1 * Y)	-0.00001	-0.00000	-0.00000
	(A0 * B0 * B1 * !C0 * C1 * Y)	-0.00026	-0.00026	-0.00025
	(A0 * !B1 * C0 * C1 * Y)	0.00009	0.00009	0.00009
	(A0 * !B1 * C0 * C1 * Y)	0.00002	0.00002	0.00002
	(A0 * !B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B1 * C0 * C1 * Y)	-0.00026	-0.00026	-0.00026
	(A0 * !B0 * B1 * C0 * C1 * Y)	0.00009	0.00009	0.00009
	(A0 * !B0 * B1 * C0 * C1 * Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * !B0 * B1 * C0 * C1 * Y)	-0.00026	-0.00026	-0.00026
	(!A0 * B0 * B1 * C0 * C1 * Y)	0.00013	0.00014	0.00014
	(!A0 * B0 * B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * C0 * C1 * Y)	-0.00022	-0.00021	-0.00020
	(!A0 * B0 * B1 * !C1 * Y)	0.00013	0.00014	0.00014
	(!A0 * B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00002
	(!A0 * B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * !C1 * Y)	-0.00022	-0.00021	-0.00020
	(!A0 * B0 * B1 * !C0 * C1 * Y)	0.00013	0.00014	0.00014
	(!A0 * B0 * B1 * !C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * !C0 * C1 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * B0 * B1 * !C0 * C1 * Y)	-0.00022	-0.00021	-0.00020
	(!A0 * !B1 * C0 * C1 * Y)	0.00014	0.00014	0.00014
	(!A0 * !B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * C0 * C1 * Y)	-0.00022	-0.00021	-0.00020
	(!A0 * !B1 * !C1 * !Y)	0.00025	0.00025	0.00025
	(!A0 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * !C1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !B1 * !C1 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !B1 * !C0 * C1 * !Y)	0.00025	0.00025	0.00025
	(!A0 * !B1 * !C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * !C0 * C1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !B1 * !C0 * C1 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !B0 * B1 * C0 * C1 * Y)	0.00013	0.00014	0.00014
	(!A0 * !B0 * B1 * C0 * C1 * Y)	0.00001	0.00001	0.00002
	(!A0 * !B0 * B1 * C0 * C1 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !B0 * B1 * C0 * C1 * Y)	-0.00022	-0.00021	-0.00021
	(!A0 * !B0 * B1 * !C1 * !Y)	0.00025	0.00025	0.00025
	(!A0 * !B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * B1 * !C1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !B0 * B1 * !C1 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	0.00025	0.00025	0.00025
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	-0.00004	-0.00004	-0.00004

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X0P7H7H	**(A0 * A1 * B1 * C0 * C1 * Y)**	-0.00000	0.00000	0.00001
	(A0 * A1 * B1 * C0 * C1 * Y)	-0.00006	-0.00006	-0.00005
	(A0 * A1 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * C1 * Y)	0.00025	0.00025	0.00025
	(A0 * A1 * B1 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C1 * Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C1 * Y)	0.00025	0.00025	0.00025
	(A0 * A1 * B1 * !C0 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * Y)	0.00025	0.00025	0.00025
	(A0 * A1 * !B1 * C0 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * C1 * Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * !B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * C0 * C1 * Y)	0.00022	0.00022	0.00022
	(A0 * A1 * !B1 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * !B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !C1 * Y)	0.00022	0.00022	0.00022
	(A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * !B1 * !C0 * C1 * Y)	0.00001	0.00001	0.00002
	(A0 * A1 * !B1 * !C0 * C1 * Y)	0.00022	0.00022	0.00022
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	-0.00016	-0.00016	-0.00016
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	0.00020	0.00020	0.00020
	(!A1 * B1 * C0 * C1 * Y)	-0.00012	-0.00011	-0.00008
	(!A1 * B1 * C0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00001
	(!A1 * B1 * C0 * C1 * Y)	0.00023	0.00024	0.00024
	(!A1 * !B1 * !C1 * !Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C1 * !Y)	0.00016	0.00017	0.00017
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00017	0.00017	0.00017
	(!A0 * A1 * B1 * C0 * C1 * Y)	-0.00012	-0.00011	-0.00009
	(!A0 * A1 * B1 * C0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * B1 * C0 * C1 * Y)	0.00023	0.00024	0.00024
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00019	-0.00019	-0.00019
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00017	0.00017	0.00017
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00019	-0.00019	-0.00019
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00017	0.00017	0.00017

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X0P7H7H	**(A0 * A1 * B1 * C0 * C1 * Y)**	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * C0 * C1 * Y)	0.00005	0.00006	0.00006
	(A0 * A1 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * C0 * C1 * Y)	-0.00025	-0.00025	-0.00025
	(A0 * A1 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C1 * Y)	0.00004	0.00004	0.00005
	(A0 * A1 * B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * !C1 * Y)	-0.00025	-0.00025	-0.00025
	(A0 * A1 * B1 * !C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * Y)	0.00004	0.00005	0.00005
	(A0 * A1 * B1 * !C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * Y)	-0.00025	-0.00025	-0.00025
	(A0 * A1 * !B1 * C0 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * C1 * Y)	0.00005	0.00005	0.00005
	(A0 * A1 * !B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * C0 * C1 * Y)	-0.00022	-0.00021	-0.00021
	(A0 * A1 * !B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * Y)	0.00004	0.00004	0.00004
	(A0 * A1 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C1 * Y)	-0.00022	-0.00022	-0.00020
	(A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * C1 * Y)	0.00004	0.00004	0.00004
	(A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00002	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00022	-0.00021	-0.00020
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	0.00016	0.00016	0.00016
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	-0.00020	-0.00019	-0.00018
	(!A1 * B1 * C0 * C1 * Y)	0.00012	0.00012	0.00012
	(!A1 * B1 * C0 * C1 * Y)	0.00002	0.00002	0.00002
	(!A1 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B1 * C0 * C1 * Y)	-0.00024	-0.00023	-0.00023
	(!A1 * !B1 * !C1 * !Y)	0.00019	0.00019	0.00020
	(!A1 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C1 * !Y)	-0.00017	-0.00016	-0.00015
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00019	0.00019	0.00020
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00017	-0.00016	-0.00015
	(!A0 * A1 * B1 * C0 * C1 * Y)	0.00012	0.00012	0.00012
	(!A0 * A1 * B1 * C0 * C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * B1 * C0 * C1 * Y)	-0.00024	-0.00023	-0.00023
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00019	0.00019	0.00020
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00017	-0.00016	-0.00015
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00019	0.00019	0.00020
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00017	-0.00016	-0.00015

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X0P7H7H	**(A0 * A1 * B0 * C0 * C1 * Y)**	-0.00000	-0.00000	0.00000
	(A0 * A1 * B0 * C0 * C1 * Y)	-0.00006	-0.00006	-0.00006
	(A0 * A1 * B0 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * C1 * Y)	0.00023	0.00023	0.00023
	(A0 * A1 * B0 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C1 * Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * B0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C1 * Y)	0.00023	0.00023	0.00023
	(A0 * A1 * B0 * !C0 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * C1 * Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * B0 * !C0 * C1 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * B0 * !C0 * C1 * Y)	0.00022	0.00023	0.00023
	(A0 * A1 * !B0 * C0 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * C0 * C1 * Y)	-0.00006	-0.00006	-0.00006
	(A0 * A1 * !B0 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * C0 * C1 * Y)	0.00020	0.00020	0.00020
	(A0 * A1 * !B0 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C1 * Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * !B0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * !C1 * Y)	0.00020	0.00020	0.00020
	(A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * !B0 * !C0 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * !C0 * C1 * Y)	0.00020	0.00020	0.00020
	(!A1 * B0 * C0 * C1 * Y)	-0.00015	-0.00014	-0.00012
	(!A1 * B0 * C0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * C0 * C1 * Y)	0.00021	0.00021	0.00022
	(!A1 * !B0 * C0 * C1 * Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * C1 * Y)	0.00017	0.00017	0.00017
	(!A1 * !B0 * !C1 * !Y)	-0.00027	-0.00027	-0.00027
	(!A1 * !B0 * !C1 * !Y)	-0.00001	-0.00001	0.00000
	(!A1 * !B0 * !C1 * !Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * !C1 * !Y)	0.00003	0.00003	0.00004
	(!A1 * !B0 * !C0 * C1 * !Y)	-0.00027	-0.00027	-0.00027
	(!A1 * !B0 * !C0 * C1 * !Y)	-0.00001	-0.00001	0.00000
	(!A1 * !B0 * !C0 * C1 * !Y)	0.00002	0.00003	0.00003
	(!A1 * !B0 * !C0 * C1 * !Y)	0.00003	0.00003	0.00004
	(!A0 * A1 * B0 * C0 * C1 * Y)	-0.00015	-0.00014	-0.00012
	(!A0 * A1 * B0 * C0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * B0 * C0 * C1 * Y)	-0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * C0 * C1 * Y)	0.00021	0.00021	0.00022
	(!A0 * A1 * !B0 * C0 * C1 * Y)	-0.00019	-0.00019	-0.00019
	(!A0 * A1 * !B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * C0 * C1 * Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * !B0 * C0 * C1 * Y)	0.00017	0.00017	0.00017
	(!A0 * A1 * !B0 * !C1 * !Y)	-0.00027	-0.00027	-0.00027
	(!A0 * A1 * !B0 * !C1 * !Y)	-0.00001	-0.00001	0.00000
	(!A0 * A1 * !B0 * !C1 * !Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * !B0 * !C1 * !Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00027	-0.00027	-0.00027
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00001	-0.00001	0.00000
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00003	0.00003	0.00003

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X0P7H7H	**(A0 * A1 * B0 * C0 * C1 * Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * C1 * Y)	0.00006	0.00006	0.00006
	(A0 * A1 * B0 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * C0 * C1 * Y)	-0.00023	-0.00023	-0.00022
	(A0 * A1 * B0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C1 * Y)	0.00005	0.00005	0.00005
	(A0 * A1 * B0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * !C1 * Y)	-0.00023	-0.00023	-0.00023
	(A0 * A1 * B0 * !C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B0 * !C0 * C1 * Y)	0.00005	0.00005	0.00006
	(A0 * A1 * B0 * !C0 * C1 * Y)	-0.00001	-0.00000	-0.00000
	(A0 * A1 * B0 * !C0 * C1 * Y)	-0.00023	-0.00023	-0.00022
	(A0 * A1 * !B0 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * C0 * C1 * Y)	0.00006	0.00006	0.00006
	(A0 * A1 * !B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * C0 * C1 * Y)	-0.00020	-0.00019	-0.00018
	(A0 * A1 * !B0 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * !C1 * Y)	0.00005	0.00005	0.00005
	(A0 * A1 * !B0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * !C1 * Y)	-0.00020	-0.00019	-0.00018
	(A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * C1 * Y)	0.00005	0.00005	0.00005
	(A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00020	-0.00019	-0.00018
	(!A1 * B0 * C0 * C1 * Y)	0.00015	0.00015	0.00015
	(!A1 * B0 * C0 * C1 * Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * C0 * C1 * Y)	-0.00021	-0.00021	-0.00021
	(!A1 * !B0 * C0 * C1 * Y)	0.00019	0.00019	0.00020
	(!A1 * !B0 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * C1 * Y)	-0.00017	-0.00017	-0.00016
	(!A1 * !B0 * !C1 * !Y)	0.00027	0.00027	0.00027
	(!A1 * !B0 * !C1 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * !C1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A1 * !B0 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * !C0 * C1 * !Y)	0.00027	0.00027	0.00027
	(!A1 * !B0 * !C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !C0 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * B0 * C0 * C1 * Y)	0.00015	0.00015	0.00015
	(!A0 * A1 * B0 * C0 * C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * B0 * C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * B0 * C0 * C1 * Y)	-0.00021	-0.00021	-0.00021
	(!A0 * A1 * !B0 * C0 * C1 * Y)	0.00019	0.00019	0.00019
	(!A0 * A1 * !B0 * C0 * C1 * Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * !B0 * C0 * C1 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * A1 * !B0 * C0 * C1 * Y)	-0.00017	-0.00017	-0.00016
	(!A0 * A1 * !B0 * !C1 * !Y)	0.00027	0.00027	0.00027
	(!A0 * A1 * !B0 * !C1 * !Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * !B0 * !C1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * A1 * !B0 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00027	0.00027	0.00027
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00003	-0.00003	-0.00003

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X0P7H7H	**(A1 * B0 * B1 * C1 * Y)**	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C1 * Y)	0.00028	0.00029	0.00029
	(A1 * B0 * B1 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !C1 * Y)	0.00026	0.00026	0.00026
	(A0 * A1 * !B1 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C1 * Y)	0.00028	0.00029	0.00029
	(A0 * A1 * !B1 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !C1 * Y)	0.00026	0.00026	0.00026
	(A0 * A1 * !B0 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B0 * B1 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B0 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C1 * Y)	0.00029	0.00029	0.00029
	(A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * B1 * !C1 * Y)	0.00026	0.00026	0.00026
	(!A1 * B0 * B1 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * C1 * Y)	-0.00003	-0.00003	-0.00002
	(!A1 * B0 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * C1 * Y)	0.00029	0.00029	0.00029
	(!A1 * B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C1 * Y)	0.00026	0.00026	0.00026
	(!A1 * !B1 * !C1 * !Y)	-0.00018	-0.00018	-0.00018
	(!A1 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C1 * !Y)	0.00016	0.00017	0.00017
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00018	-0.00018	-0.00018
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00016	0.00017	0.00017
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00018	-0.00018	-0.00018
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00016	0.00017	0.00017
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00018	-0.00018	-0.00018
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00016	0.00017	0.00017

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X0P7H7H	**(A1 * B0 * B1 * C1 * Y)**	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C1 * Y)	0.00003	0.00003	0.00004
	(A1 * B0 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * C1 * Y)	-0.00029	-0.00028	-0.00028
	(A1 * B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C1 * Y)	0.00003	0.00003	0.00003
	(A1 * B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !C1 * Y)	-0.00026	-0.00026	-0.00024
	(A0 * A1 * !B1 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C1 * Y)	0.00003	0.00003	0.00004
	(A0 * A1 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B1 * C1 * Y)	-0.00029	-0.00028	-0.00028
	(A0 * A1 * !B1 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C1 * Y)	-0.00026	-0.00026	-0.00024
	(A0 * A1 * !B0 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C1 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B0 * B1 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C1 * Y)	-0.00029	-0.00028	-0.00028
	(A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C1 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00026	-0.00026	-0.00024
	(!A1 * B0 * B1 * C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * B1 * C1 * Y)	0.00003	0.00003	0.00003
	(!A1 * B0 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * C1 * Y)	-0.00029	-0.00028	-0.00028
	(!A1 * B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C1 * Y)	0.00003	0.00003	0.00003
	(!A1 * B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !C1 * Y)	-0.00026	-0.00025	-0.00024
	(!A1 * !B1 * !C1 * !Y)	0.00018	0.00019	0.00019
	(!A1 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C1 * !Y)	-0.00017	-0.00016	-0.00014
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00018	0.00019	0.00019
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00017	-0.00016	-0.00014
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00018	0.00019	0.00019
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00017	-0.00016	-0.00014
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00018	0.00019	0.00019
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00017	-0.00016	-0.00014

Passive power(pJ) for C1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X0P7H7H	**(A1 * B0 * B1 * C0 * Y)**	-0.00000	0.00000	0.00001
	(A1 * B0 * B1 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C0 * Y)	0.00034	0.00034	0.00034
	(A1 * B0 * B1 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * !C0 * Y)	-0.00003	-0.00003	-0.00002
	(A1 * B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !C0 * Y)	0.00031	0.00031	0.00032
	(A0 * A1 * !B1 * C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * A1 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * Y)	0.00034	0.00034	0.00034
	(A0 * A1 * !B1 * !C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !C0 * Y)	0.00031	0.00031	0.00031
	(A0 * A1 * !B0 * B1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B0 * B1 * C0 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B0 * B1 * C0 * Y)	0.00034	0.00034	0.00034
	(A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * A1 * !B0 * B1 * !C0 * Y)	0.00001	0.00002	0.00002
	(A0 * A1 * !B0 * B1 * !C0 * Y)	0.00031	0.00031	0.00031
	(!A1 * B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * C0 * Y)	-0.00003	-0.00003	-0.00002
	(!A1 * B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * C0 * Y)	0.00034	0.00034	0.00034
	(!A1 * B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C0 * Y)	0.00031	0.00031	0.00031
	(!A1 * !B1 * !C0 * !Y)	-0.00029	-0.00029	-0.00029
	(!A1 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C0 * !Y)	0.00002	0.00003	0.00003
	(!A1 * !B1 * !C0 * !Y)	0.00004	0.00004	0.00005
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00029	-0.00029	-0.00029
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00002	0.00003	0.00003
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00004	0.00004	0.00005
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00029	-0.00029	-0.00029
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00004	0.00004	0.00005
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00029	-0.00029	-0.00029
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00004	0.00004	0.00005

Passive power(pJ) for C1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X0P7H7H	**(A1 * B0 * B1 * C0 * Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C0 * Y)	0.00003	0.00003	0.00003
	(A1 * B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * C0 * Y)	-0.00034	-0.00034	-0.00034
	(A1 * B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C0 * Y)	0.00003	0.00003	0.00003
	(A1 * B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !C0 * Y)	-0.00032	-0.00031	-0.00029
	(A0 * A1 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * Y)	0.00002	0.00003	0.00003
	(A0 * A1 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B1 * C0 * Y)	-0.00034	-0.00034	-0.00034
	(A0 * A1 * !B1 * !C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C0 * Y)	-0.00031	-0.00030	-0.00029
	(A0 * A1 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C0 * Y)	0.00003	0.00003	0.00004
	(A0 * A1 * !B0 * B1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C0 * Y)	-0.00034	-0.00034	-0.00034
	(A0 * A1 * !B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C0 * Y)	0.00002	0.00003	0.00003
	(A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00002	-0.00001	-0.00001
	(A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00031	-0.00031	-0.00030
	(!A1 * B0 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * C0 * Y)	0.00002	0.00003	0.00003
	(!A1 * B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * C0 * Y)	-0.00034	-0.00034	-0.00034
	(!A1 * B0 * B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * B1 * !C0 * Y)	0.00003	0.00003	0.00003
	(!A1 * B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !C0 * Y)	-0.00031	-0.00030	-0.00029
	(!A1 * !B1 * !C0 * !Y)	0.00029	0.00029	0.00029
	(!A1 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C0 * !Y)	-0.00003	-0.00002	-0.00002
	(!A1 * !B1 * !C0 * !Y)	-0.00004	-0.00004	-0.00003
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00029	0.00029	0.00029
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00003	-0.00002	-0.00002
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00004	-0.00004	-0.00003
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00029	0.00029	0.00029
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00004	-0.00004	-0.00003
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00029	0.00029	0.00029
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00004	-0.00004	-0.00003

AO222X1H7H

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

Cell Description

AO

Y=(A0 & A1)(B0 & B1)(C0 & C1)

Truth Table

INPUT						OUTPUT
A0	A1	B0	B1	C0	C1	Y
0	x	0	x	0	x	0
0	x	0	x	1	0	0
0	x	x	x	1	1	1
0	x	1	0	0	x	0
0	x	1	0	1	0	0
x	x	1	1	x	x	1
1	0	0	x	0	x	0
1	0	0	x	1	0	0
1	0	x	x	1	1	1
1	0	1	0	0	x	0
1	0	1	0	1	0	0
1	1	x	x	x	x	1

Footprint

Cell Name	Area
AO222X1H7H	3.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	A1	B0	B1	C0	C1	Y
AO222X1H7H	0.00087	0.00088	0.00080	0.00083	0.00079	0.00093	0.04126

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO222X1H7H	0.00000	0.02227	0.02865

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO222X1H7H	A0->Y (RR)	0.11065	0.29779	0.75589
	A1->Y (RR)	0.10749	0.29542	0.75314
	B0->Y (RR)	0.10288	0.28748	0.73873
	B1->Y (RR)	0.09997	0.28496	0.73507
	C0->Y (RR)	0.09227	0.27382	0.71630
	C1->Y (RR)	0.09193	0.27328	0.71425

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO222X1H7H	A0->Y (FF)	0.22423	0.39209	0.78144
	A1->Y (FF)	0.21265	0.37859	0.76435
	B0->Y (FF)	0.21141	0.38025	0.77954
	B1->Y (FF)	0.20038	0.36731	0.76265
	C0->Y (FF)	0.18158	0.34441	0.73285
	C1->Y (FF)	0.17615	0.33610	0.71937

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO222X1H7H	A0	0.00048	0.00055	0.00061
	A0	0.00019	0.00019	0.00020
	A0	-0.00008	-0.00008	-0.00008
	A0	0.00254	0.00261	0.00268
	A1	0.00048	0.00054	0.00061
	A1	0.00019	0.00019	0.00019
	A1	-0.00004	-0.00004	-0.00002
	A1	0.00234	0.00240	0.00247
	B0	0.00050	0.00057	0.00063
	B0	0.00011	0.00011	0.00014
	B0	-0.00008	-0.00008	-0.00005
	B0	0.00226	0.00233	0.00239
	B1	0.00048	0.00054	0.00060
	B1	0.00009	0.00010	0.00014
	B1	-0.00004	-0.00004	-0.00003
	B1	0.00208	0.00214	0.00221
	C0	0.00052	0.00059	0.00065
	C0	0.00002	0.00002	0.00003
	C0	-0.00008	-0.00008	-0.00007
	C0	0.00200	0.00207	0.00212
	C1	0.00051	0.00058	0.00065
	C1	0.00000	0.00002	0.00014
	C1	-0.00004	-0.00004	-0.00003
	C1	0.00187	0.00194	0.00201

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO222X1H7H	A0	0.00277	0.00283	0.00289
	A0	-0.00018	-0.00018	-0.00018
	A0	0.00015	0.00015	0.00016
	A0	0.00062	0.00068	0.00074
	A1	0.00262	0.00269	0.00276
	A1	-0.00018	-0.00018	-0.00016
	A1	0.00011	0.00012	0.00012
	A1	0.00065	0.00072	0.00080
	B0	0.00240	0.00245	0.00251
	B0	-0.00010	-0.00010	-0.00007
	B0	0.00015	0.00016	0.00016
	B0	0.00064	0.00069	0.00075
	B1	0.00228	0.00234	0.00241
	B1	-0.00010	-0.00010	-0.00008
	B1	0.00012	0.00012	0.00012
	B1	0.00066	0.00072	0.00079
	C0	0.00198	0.00203	0.00209
	C0	-0.00002	-0.00002	-0.00000
	C0	0.00015	0.00015	0.00016
	C0	0.00057	0.00063	0.00069
	C1	0.00187	0.00194	0.00202
	C1	-0.00002	-0.00002	0.00000
	C1	0.00011	0.00012	0.00012
	C1	0.00056	0.00062	0.00071

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X1H7H	**(A1 * B0 * B1 * C0 * C1 * Y)**	-0.00010	-0.00009	-0.00006
	(A1 * B0 * B1 * C0 * C1 * Y)	-0.00003	-0.00002	-0.00002
	(A1 * B0 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C0 * C1 * Y)	0.00029	0.00029	0.00029
	(A1 * B0 * B1 * !C1 * Y)	-0.00010	-0.00009	-0.00006
	(A1 * B0 * B1 * !C1 * Y)	-0.00003	-0.00003	-0.00002
	(A1 * B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C1 * Y)	0.00029	0.00029	0.00029
	(A1 * B0 * B1 * !C0 * C1 * Y)	-0.00010	-0.00009	-0.00007
	(A1 * B0 * B1 * !C0 * C1 * Y)	-0.00003	-0.00003	-0.00002
	(A1 * B0 * B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C0 * C1 * Y)	0.00029	0.00029	0.00029
	(A1 * !B1 * C0 * C1 * Y)	-0.00010	-0.00008	-0.00007
	(A1 * !B1 * C0 * C1 * Y)	-0.00003	-0.00003	-0.00002
	(A1 * !B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * !B1 * C0 * C1 * Y)	0.00029	0.00029	0.00029
	(A1 * !B0 * B1 * C0 * C1 * Y)	-0.00010	-0.00008	-0.00006
	(A1 * !B0 * B1 * C0 * C1 * Y)	-0.00003	-0.00003	-0.00002
	(A1 * !B0 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * C0 * C1 * Y)	0.00029	0.00029	0.00030
	(!A1 * B0 * B1 * Y)	-0.00015	-0.00015	-0.00015
	(!A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * Y)	0.00025	0.00026	0.00026
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	-0.00015	-0.00015	-0.00014
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	0.00026	0.00026	0.00026
	(!A1 * !B1 * !C1 * !Y)	-0.00020	-0.00020	-0.00020
	(!A1 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B1 * !C1 * !Y)	0.00020	0.00020	0.00021
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00020	-0.00020	-0.00020
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00020	0.00020	0.00021
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00020	-0.00020	-0.00020
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00020	0.00020	0.00021
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	-0.00020	-0.00020	-0.00020
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	0.00020	0.00020	0.00021

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X1H7H	**(A1 * B0 * B1 * C0 * C1 * Y)**	0.00010	0.00010	0.00011
	(A1 * B0 * B1 * C0 * C1 * Y)	0.00002	0.00002	0.00003
	(A1 * B0 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * C0 * C1 * Y)	-0.00029	-0.00029	-0.00028
	(A1 * B0 * B1 * !C1 * Y)	0.00010	0.00010	0.00010
	(A1 * B0 * B1 * !C1 * Y)	0.00002	0.00003	0.00003
	(A1 * B0 * B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * !C1 * Y)	-0.00029	-0.00029	-0.00028
	(A1 * B0 * B1 * !C0 * C1 * Y)	0.00010	0.00010	0.00010
	(A1 * B0 * B1 * !C0 * C1 * Y)	0.00002	0.00003	0.00003
	(A1 * B0 * B1 * !C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * !C0 * C1 * Y)	-0.00029	-0.00028	-0.00028
	(A1 * !B1 * C0 * C1 * Y)	0.00009	0.00010	0.00010
	(A1 * !B1 * C0 * C1 * Y)	0.00002	0.00003	0.00003
	(A1 * !B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B1 * C0 * C1 * Y)	-0.00029	-0.00029	-0.00028
	(A1 * !B0 * B1 * C0 * C1 * Y)	0.00009	0.00010	0.00010
	(A1 * !B0 * B1 * C0 * C1 * Y)	0.00002	0.00003	0.00003
	(A1 * !B0 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * B1 * C0 * C1 * Y)	-0.00029	-0.00029	-0.00028
	(!A1 * B0 * B1 * Y)	0.00015	0.00015	0.00015
	(!A1 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * Y)	-0.00026	-0.00025	-0.00024
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	0.00014	0.00015	0.00015
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	-0.00026	-0.00025	-0.00024
	(!A1 * !B1 * !C1 * !Y)	0.00020	0.00020	0.00021
	(!A1 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C1 * !Y)	-0.00002	-0.00001	-0.00001
	(!A1 * !B1 * !C1 * !Y)	-0.00020	-0.00019	-0.00018
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00020	0.00020	0.00021
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00020	-0.00019	-0.00018
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00020	0.00020	0.00021
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00002	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00021	-0.00019	-0.00018
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	0.00020	0.00020	0.00021
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	-0.00020	-0.00019	-0.00018

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X1H7H	**(A0 * B0 * B1 * C0 * C1 * Y)**	-0.00010	-0.00008	-0.00006
	(A0 * B0 * B1 * C0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * C0 * C1 * Y)	0.00026	0.00026	0.00026
	(A0 * B0 * B1 * !C1 * Y)	-0.00010	-0.00008	-0.00007
	(A0 * B0 * B1 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !C1 * Y)	0.00026	0.00026	0.00026
	(A0 * B0 * B1 * !C0 * C1 * Y)	-0.00010	-0.00008	-0.00006
	(A0 * B0 * B1 * !C0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !C0 * C1 * Y)	0.00026	0.00026	0.00026
	(A0 * !B1 * C0 * C1 * Y)	-0.00009	-0.00008	-0.00006
	(A0 * !B1 * C0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !B1 * C0 * C1 * Y)	0.00026	0.00026	0.00026
	(A0 * !B0 * B1 * C0 * C1 * Y)	-0.00009	-0.00008	-0.00006
	(A0 * !B0 * B1 * C0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * B1 * C0 * C1 * Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * B1 * C0 * C1 * Y)	0.00026	0.00026	0.00026
	(!A0 * B0 * B1 * C0 * C1 * Y)	-0.00014	-0.00014	-0.00013
	(!A0 * B0 * B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * C0 * C1 * Y)	0.00022	0.00022	0.00022
	(!A0 * B0 * B1 * !C1 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * !C1 * Y)	0.00022	0.00022	0.00022
	(!A0 * B0 * B1 * !C0 * C1 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * B0 * B1 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * B1 * !C0 * C1 * Y)	0.00001	0.00002	0.00002
	(!A0 * B0 * B1 * !C0 * C1 * Y)	0.00022	0.00022	0.00022
	(!A0 * !B1 * C0 * C1 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * C0 * C1 * Y)	0.00022	0.00022	0.00022
	(!A0 * !B1 * !C1 * !Y)	-0.00025	-0.00025	-0.00024
	(!A0 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * !C1 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !B1 * !C1 * !Y)	0.00004	0.00004	0.00005
	(!A0 * !B1 * !C0 * C1 * !Y)	-0.00025	-0.00025	-0.00024
	(!A0 * !B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * !C0 * C1 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !B1 * !C0 * C1 * !Y)	0.00004	0.00004	0.00005
	(!A0 * !B0 * B1 * C0 * C1 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !B0 * B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * B1 * C0 * C1 * Y)	0.00001	0.00002	0.00002
	(!A0 * !B0 * B1 * C0 * C1 * Y)	0.00022	0.00022	0.00022
	(!A0 * !B0 * B1 * !C1 * !Y)	-0.00025	-0.00025	-0.00024
	(!A0 * !B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * B1 * !C1 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !B0 * B1 * !C1 * !Y)	0.00004	0.00004	0.00005
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	-0.00025	-0.00025	-0.00024
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	0.00004	0.00004	0.00005

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X1H7H	**(A0 * B0 * B1 * C0 * C1 * Y)**	0.00010	0.00010	0.00010
	(A0 * B0 * B1 * C0 * C1 * Y)	0.00002	0.00002	0.00002
	(A0 * B0 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * C0 * C1 * Y)	-0.00026	-0.00026	-0.00026
	(A0 * B0 * B1 * !C1 * Y)	0.00010	0.00010	0.00010
	(A0 * B0 * B1 * !C1 * Y)	0.00002	0.00002	0.00002
	(A0 * B0 * B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * !C1 * Y)	-0.00026	-0.00026	-0.00025
	(A0 * B0 * B1 * !C0 * C1 * Y)	0.00010	0.00010	0.00010
	(A0 * B0 * B1 * !C0 * C1 * Y)	0.00002	0.00002	0.00002
	(A0 * B0 * B1 * !C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * B1 * !C0 * C1 * Y)	-0.00026	-0.00026	-0.00025
	(A0 * !B1 * C0 * C1 * Y)	0.00009	0.00009	0.00010
	(A0 * !B1 * C0 * C1 * Y)	0.00002	0.00002	0.00002
	(A0 * !B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B1 * C0 * C1 * Y)	-0.00026	-0.00026	-0.00026
	(A0 * !B0 * B1 * C0 * C1 * Y)	0.00009	0.00009	0.00010
	(A0 * !B0 * B1 * C0 * C1 * Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * !B0 * B1 * C0 * C1 * Y)	-0.00026	-0.00026	-0.00026
	(!A0 * B0 * B1 * C0 * C1 * Y)	0.00013	0.00014	0.00014
	(!A0 * B0 * B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * C0 * C1 * Y)	-0.00022	-0.00021	-0.00020
	(!A0 * B0 * B1 * !C1 * Y)	0.00014	0.00014	0.00014
	(!A0 * B0 * B1 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * !C1 * Y)	-0.00022	-0.00021	-0.00021
	(!A0 * B0 * B1 * !C0 * C1 * Y)	0.00014	0.00014	0.00014
	(!A0 * B0 * B1 * !C0 * C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * B1 * !C0 * C1 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * B0 * B1 * !C0 * C1 * Y)	-0.00022	-0.00021	-0.00020
	(!A0 * !B1 * C0 * C1 * Y)	0.00014	0.00014	0.00014
	(!A0 * !B1 * C0 * C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * !B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * C0 * C1 * Y)	-0.00022	-0.00021	-0.00020
	(!A0 * !B1 * !C1 * !Y)	0.00025	0.00025	0.00025
	(!A0 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * !C1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !B1 * !C1 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !B1 * !C0 * C1 * !Y)	0.00025	0.00025	0.00025
	(!A0 * !B1 * !C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * !C0 * C1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !B1 * !C0 * C1 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !B0 * B1 * C0 * C1 * Y)	0.00014	0.00014	0.00014
	(!A0 * !B0 * B1 * C0 * C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * B1 * C0 * C1 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !B0 * B1 * C0 * C1 * Y)	-0.00022	-0.00021	-0.00021
	(!A0 * !B0 * B1 * !C1 * !Y)	0.00025	0.00025	0.00025
	(!A0 * !B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * B1 * !C1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !B0 * B1 * !C1 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	0.00025	0.00025	0.00025
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	-0.00004	-0.00004	-0.00004

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X1H7H	**(A0 * A1 * B1 * C0 * C1 * Y)**	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * C0 * C1 * Y)	-0.00006	-0.00005	-0.00005
	(A0 * A1 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * B1 * C0 * C1 * Y)	0.00025	0.00025	0.00025
	(A0 * A1 * B1 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C1 * Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C1 * Y)	0.00025	0.00025	0.00025
	(A0 * A1 * B1 * !C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * Y)	0.00025	0.00025	0.00025
	(A0 * A1 * !B1 * C0 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * C1 * Y)	-0.00006	-0.00005	-0.00005
	(A0 * A1 * !B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * C0 * C1 * Y)	0.00022	0.00022	0.00022
	(A0 * A1 * !B1 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * !B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !C1 * Y)	0.00022	0.00022	0.00023
	(A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * !B1 * !C0 * C1 * Y)	0.00001	0.00001	0.00002
	(A0 * A1 * !B1 * !C0 * C1 * Y)	0.00022	0.00022	0.00022
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	-0.00016	-0.00016	-0.00016
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	0.00020	0.00020	0.00020
	(!A1 * B1 * C0 * C1 * Y)	-0.00012	-0.00011	-0.00009
	(!A1 * B1 * C0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B1 * C0 * C1 * Y)	0.00023	0.00024	0.00024
	(!A1 * !B1 * !C1 * !Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C1 * !Y)	0.00016	0.00017	0.00017
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00016	0.00017	0.00017
	(!A0 * A1 * B1 * C0 * C1 * Y)	-0.00012	-0.00011	-0.00009
	(!A0 * A1 * B1 * C0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * B1 * C0 * C1 * Y)	0.00023	0.00024	0.00024
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00019	-0.00019	-0.00019
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00016	0.00017	0.00017
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00019	-0.00019	-0.00019
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00017	0.00017	0.00017

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X1H7H	**(A0 * A1 * B1 * C0 * C1 * Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * C1 * Y)	0.00005	0.00006	0.00006
	(A0 * A1 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * C0 * C1 * Y)	-0.00025	-0.00025	-0.00025
	(A0 * A1 * B1 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C1 * Y)	0.00004	0.00004	0.00005
	(A0 * A1 * B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * !C1 * Y)	-0.00025	-0.00025	-0.00024
	(A0 * A1 * B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * Y)	0.00004	0.00005	0.00005
	(A0 * A1 * B1 * !C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * Y)	-0.00025	-0.00025	-0.00025
	(A0 * A1 * !B1 * C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B1 * C0 * C1 * Y)	0.00005	0.00005	0.00006
	(A0 * A1 * !B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * C0 * C1 * Y)	-0.00022	-0.00021	-0.00021
	(A0 * A1 * !B1 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * Y)	0.00004	0.00004	0.00004
	(A0 * A1 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C1 * Y)	-0.00022	-0.00021	-0.00020
	(A0 * A1 * !B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * C1 * Y)	0.00004	0.00004	0.00004
	(A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00002	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00022	-0.00021	-0.00020
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	0.00016	0.00016	0.00016
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	-0.00020	-0.00019	-0.00018
	(!A1 * B1 * C0 * C1 * Y)	0.00012	0.00012	0.00012
	(!A1 * B1 * C0 * C1 * Y)	0.00002	0.00002	0.00002
	(!A1 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B1 * C0 * C1 * Y)	-0.00024	-0.00023	-0.00023
	(!A1 * !B1 * !C1 * !Y)	0.00019	0.00019	0.00020
	(!A1 * !B1 * !C1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C1 * !Y)	-0.00017	-0.00016	-0.00016
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00019	0.00019	0.00020
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00017	-0.00016	-0.00015
	(!A0 * A1 * B1 * C0 * C1 * Y)	0.00012	0.00012	0.00012
	(!A0 * A1 * B1 * C0 * C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * B1 * C0 * C1 * Y)	-0.00024	-0.00023	-0.00023
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00019	0.00019	0.00020
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00017	-0.00016	-0.00015
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00019	0.00019	0.00020
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00017	-0.00016	-0.00015

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X1H7H	**(A0 * A1 * B0 * C0 * C1 * Y)**	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * C0 * C1 * Y)	-0.00006	-0.00006	-0.00006
	(A0 * A1 * B0 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * C1 * Y)	0.00023	0.00023	0.00023
	(A0 * A1 * B0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * !C1 * Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * B0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C1 * Y)	0.00023	0.00023	0.00023
	(A0 * A1 * B0 * !C0 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * C1 * Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * B0 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * C1 * Y)	0.00022	0.00023	0.00023
	(A0 * A1 * !B0 * C0 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * C0 * C1 * Y)	-0.00006	-0.00006	-0.00006
	(A0 * A1 * !B0 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * C0 * C1 * Y)	0.00020	0.00020	0.00020
	(A0 * A1 * !B0 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C1 * Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * !B0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * !C1 * Y)	0.00020	0.00020	0.00020
	(A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * !B0 * !C0 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * !C0 * C1 * Y)	0.00020	0.00020	0.00020
	(!A1 * B0 * C0 * C1 * Y)	-0.00015	-0.00014	-0.00012
	(!A1 * B0 * C0 * C1 * Y)	-0.00003	-0.00002	-0.00002
	(!A1 * B0 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * C0 * C1 * Y)	0.00021	0.00021	0.00022
	(!A1 * !B0 * C0 * C1 * Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * C1 * Y)	0.00017	0.00017	0.00017
	(!A1 * !B0 * !C1 * !Y)	-0.00027	-0.00027	-0.00027
	(!A1 * !B0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C1 * !Y)	0.00002	0.00003	0.00003
	(!A1 * !B0 * !C1 * !Y)	0.00003	0.00003	0.00004
	(!A1 * !B0 * !C0 * C1 * !Y)	-0.00027	-0.00027	-0.00027
	(!A1 * !B0 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * C1 * !Y)	0.00002	0.00003	0.00003
	(!A1 * !B0 * !C0 * C1 * !Y)	0.00003	0.00003	0.00004
	(!A0 * A1 * B0 * C0 * C1 * Y)	-0.00015	-0.00014	-0.00011
	(!A0 * A1 * B0 * C0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * B0 * C0 * C1 * Y)	-0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * C0 * C1 * Y)	0.00021	0.00021	0.00022
	(!A0 * A1 * !B0 * C0 * C1 * Y)	-0.00019	-0.00019	-0.00019
	(!A0 * A1 * !B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * C0 * C1 * Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * !B0 * C0 * C1 * Y)	0.00017	0.00017	0.00017
	(!A0 * A1 * !B0 * !C1 * !Y)	-0.00027	-0.00027	-0.00027
	(!A0 * A1 * !B0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B0 * !C1 * !Y)	0.00002	0.00003	0.00003
	(!A0 * A1 * !B0 * !C1 * !Y)	0.00003	0.00003	0.00004
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00027	-0.00027	-0.00027
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00002	0.00003	0.00003
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00003	0.00003	0.00004

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X1H7H	**(A0 * A1 * B0 * C0 * C1 * Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * C1 * Y)	0.00006	0.00006	0.00006
	(A0 * A1 * B0 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * C0 * C1 * Y)	-0.00023	-0.00023	-0.00023
	(A0 * A1 * B0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C1 * Y)	0.00005	0.00005	0.00005
	(A0 * A1 * B0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * !C1 * Y)	-0.00023	-0.00023	-0.00023
	(A0 * A1 * B0 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * C1 * Y)	0.00005	0.00005	0.00006
	(A0 * A1 * B0 * !C0 * C1 * Y)	-0.00000	-0.00000	0.00001
	(A0 * A1 * B0 * !C0 * C1 * Y)	-0.00023	-0.00022	-0.00020
	(A0 * A1 * !B0 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * C0 * C1 * Y)	0.00006	0.00006	0.00006
	(A0 * A1 * !B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * C0 * C1 * Y)	-0.00020	-0.00019	-0.00018
	(A0 * A1 * !B0 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C1 * Y)	0.00005	0.00005	0.00005
	(A0 * A1 * !B0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * !C1 * Y)	-0.00020	-0.00019	-0.00018
	(A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * C1 * Y)	0.00005	0.00005	0.00005
	(A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00020	-0.00019	-0.00019
	(!A1 * B0 * C0 * C1 * Y)	0.00015	0.00015	0.00015
	(!A1 * B0 * C0 * C1 * Y)	0.00002	0.00002	0.00003
	(!A1 * B0 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * C0 * C1 * Y)	-0.00021	-0.00021	-0.00021
	(!A1 * !B0 * C0 * C1 * Y)	0.00019	0.00019	0.00020
	(!A1 * !B0 * C0 * C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * C1 * Y)	-0.00017	-0.00017	-0.00016
	(!A1 * !B0 * !C1 * !Y)	0.00027	0.00027	0.00027
	(!A1 * !B0 * !C1 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * !C0 * C1 * !Y)	0.00027	0.00027	0.00027
	(!A1 * !B0 * !C0 * C1 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * !C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !C0 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * B0 * C0 * C1 * Y)	0.00015	0.00015	0.00015
	(!A0 * A1 * B0 * C0 * C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * B0 * C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * B0 * C0 * C1 * Y)	-0.00021	-0.00021	-0.00021
	(!A0 * A1 * !B0 * C0 * C1 * Y)	0.00019	0.00019	0.00019
	(!A0 * A1 * !B0 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * C0 * C1 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * A1 * !B0 * C0 * C1 * Y)	-0.00017	-0.00017	-0.00016
	(!A0 * A1 * !B0 * !C1 * !Y)	0.00027	0.00027	0.00027
	(!A0 * A1 * !B0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B0 * !C1 * !Y)	-0.00004	-0.00003	-0.00003
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00027	0.00027	0.00027
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00003	-0.00003	-0.00003

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X1H7H	**(A1 * B0 * B1 * C1 * Y)**	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C1 * Y)	0.00029	0.00029	0.00029
	(A1 * B0 * B1 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !C1 * Y)	0.00026	0.00026	0.00026
	(A0 * A1 * !B1 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B1 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C1 * Y)	0.00029	0.00029	0.00029
	(A0 * A1 * !B1 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !C1 * Y)	0.00026	0.00026	0.00026
	(A0 * A1 * !B0 * B1 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B0 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C1 * Y)	0.00028	0.00029	0.00029
	(A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00002
	(A0 * A1 * !B0 * B1 * !C1 * Y)	0.00026	0.00026	0.00026
	(!A1 * B0 * B1 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * B0 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * C1 * Y)	0.00028	0.00029	0.00029
	(!A1 * B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * !C1 * Y)	-0.00003	-0.00003	-0.00002
	(!A1 * B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C1 * Y)	0.00026	0.00026	0.00026
	(!A1 * !B1 * !C1 * !Y)	-0.00018	-0.00018	-0.00018
	(!A1 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C1 * !Y)	0.00016	0.00017	0.00017
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00018	-0.00018	-0.00018
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00016	0.00017	0.00017
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00018	-0.00018	-0.00018
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00016	0.00017	0.00017
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00018	-0.00018	-0.00018
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00016	0.00017	0.00017

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X1H7H	**(A1 * B0 * B1 * C1 * Y)**	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C1 * Y)	0.00003	0.00003	0.00004
	(A1 * B0 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * C1 * Y)	-0.00029	-0.00029	-0.00028
	(A1 * B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C1 * Y)	0.00003	0.00003	0.00003
	(A1 * B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !C1 * Y)	-0.00026	-0.00026	-0.00024
	(A0 * A1 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C1 * Y)	0.00003	0.00003	0.00004
	(A0 * A1 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B1 * C1 * Y)	-0.00029	-0.00028	-0.00028
	(A0 * A1 * !B1 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C1 * Y)	-0.00026	-0.00026	-0.00025
	(A0 * A1 * !B0 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C1 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B0 * B1 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C1 * Y)	-0.00029	-0.00028	-0.00028
	(A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C1 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00002	-0.00001	-0.00001
	(A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00026	-0.00026	-0.00024
	(!A1 * B0 * B1 * C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * B1 * C1 * Y)	0.00003	0.00003	0.00003
	(!A1 * B0 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * C1 * Y)	-0.00029	-0.00028	-0.00028
	(!A1 * B0 * B1 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * B1 * !C1 * Y)	0.00002	0.00003	0.00003
	(!A1 * B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !C1 * Y)	-0.00026	-0.00025	-0.00024
	(!A1 * !B1 * !C1 * !Y)	0.00018	0.00019	0.00019
	(!A1 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C1 * !Y)	-0.00017	-0.00016	-0.00014
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00018	0.00019	0.00019
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00017	-0.00016	-0.00014
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00018	0.00019	0.00019
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00017	-0.00016	-0.00014
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00018	0.00019	0.00019
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00017	-0.00016	-0.00014

Passive power(pJ) for C1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X1H7H	**(A1 * B0 * B1 * C0 * Y)**	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * C0 * Y)	-0.00003	-0.00003	-0.00002
	(A1 * B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C0 * Y)	0.00034	0.00034	0.00034
	(A1 * B0 * B1 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * !C0 * Y)	-0.00003	-0.00003	-0.00002
	(A1 * B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !C0 * Y)	0.00031	0.00031	0.00031
	(A0 * A1 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B1 * C0 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * A1 * !B1 * C0 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * !B1 * C0 * Y)	0.00034	0.00034	0.00034
	(A0 * A1 * !B1 * !C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * A1 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !C0 * Y)	0.00031	0.00031	0.00031
	(A0 * A1 * !B0 * B1 * C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C0 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * A1 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C0 * Y)	0.00034	0.00034	0.00034
	(A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * A1 * !B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00002
	(A0 * A1 * !B0 * B1 * !C0 * Y)	0.00031	0.00031	0.00031
	(!A1 * B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * C0 * Y)	-0.00003	-0.00003	-0.00002
	(!A1 * B0 * B1 * C0 * Y)	0.00000	0.00000	0.00001
	(!A1 * B0 * B1 * C0 * Y)	0.00034	0.00034	0.00034
	(!A1 * B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * !C0 * Y)	-0.00003	-0.00003	-0.00002
	(!A1 * B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C0 * Y)	0.00031	0.00031	0.00031
	(!A1 * !B1 * !C0 * !Y)	-0.00029	-0.00029	-0.00029
	(!A1 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C0 * !Y)	0.00002	0.00003	0.00004
	(!A1 * !B1 * !C0 * !Y)	0.00003	0.00004	0.00004
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00029	-0.00029	-0.00029
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00002	0.00003	0.00003
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00003	0.00004	0.00004
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00029	-0.00029	-0.00029
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00003	0.00004	0.00004
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00029	-0.00029	-0.00029
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00003	0.00004	0.00004

Passive power(pJ) for C1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X1H7H	**(A1 * B0 * B1 * C0 * Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C0 * Y)	0.00003	0.00003	0.00003
	(A1 * B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * C0 * Y)	-0.00034	-0.00034	-0.00034
	(A1 * B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C0 * Y)	0.00003	0.00003	0.00003
	(A1 * B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !C0 * Y)	-0.00031	-0.00031	-0.00029
	(A0 * A1 * !B1 * C0 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * !B1 * C0 * Y)	0.00002	0.00003	0.00003
	(A0 * A1 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B1 * C0 * Y)	-0.00034	-0.00034	-0.00034
	(A0 * A1 * !B1 * !C0 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * !B1 * !C0 * Y)	0.00002	0.00003	0.00003
	(A0 * A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C0 * Y)	-0.00031	-0.00031	-0.00030
	(A0 * A1 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C0 * Y)	0.00002	0.00003	0.00003
	(A0 * A1 * !B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B0 * B1 * C0 * Y)	-0.00034	-0.00034	-0.00033
	(A0 * A1 * !B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C0 * Y)	0.00002	0.00003	0.00003
	(A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00031	-0.00031	-0.00030
	(!A1 * B0 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * C0 * Y)	0.00002	0.00003	0.00003
	(!A1 * B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * C0 * Y)	-0.00034	-0.00034	-0.00034
	(!A1 * B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C0 * Y)	0.00002	0.00003	0.00003
	(!A1 * B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !C0 * Y)	-0.00031	-0.00030	-0.00030
	(!A1 * !B1 * !C0 * !Y)	0.00029	0.00029	0.00029
	(!A1 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A1 * !B1 * !C0 * !Y)	-0.00004	-0.00004	-0.00003
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00029	0.00029	0.00029
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00004	-0.00004	-0.00003
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00029	0.00029	0.00029
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00004	-0.00004	-0.00003
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00029	0.00029	0.00029
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00004	-0.00004	-0.00003

AO222X1P4H7H

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

Cell Description

AO

Y=(A0 & A1)(B0 & B1)(C0 & C1)

Truth Table

INPUT						OUTPUT
A0	A1	B0	B1	C0	C1	Y
0	x	0	x	0	x	0
0	x	0	x	1	0	0
0	x	x	x	1	1	1
0	x	1	0	0	x	0
0	x	1	0	1	0	0
x	x	1	1	x	x	1
1	0	0	x	0	x	0
1	0	0	x	1	0	0
1	0	x	x	1	1	1
1	0	1	0	0	x	0
1	0	1	0	1	0	0
1	1	x	x	x	x	1

Footprint

Cell Name	Area
AO222X1P4H7H	3.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	A1	B0	B1	C0	C1	Y
AO222X1P4H7H	0.00086	0.00088	0.00080	0.00083	0.00079	0.00093	0.04703

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO222X1P4H7H	0.00000	0.02547	0.03407

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO222X1P4H7H	A0->Y (RR)	0.10920	0.29757	0.75699
	A1->Y (RR)	0.10604	0.29530	0.75499
	B0->Y (RR)	0.10149	0.28732	0.74017
	B1->Y (RR)	0.09857	0.28483	0.73693
	C0->Y (RR)	0.09089	0.27369	0.71799
	C1->Y (RR)	0.09055	0.27319	0.71644

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO222X1P4H7H	A0->Y (FF)	0.22401	0.39445	0.78752
	A1->Y (FF)	0.21262	0.38105	0.77056
	B0->Y (FF)	0.21135	0.38274	0.78592
	B1->Y (FF)	0.20034	0.36982	0.76932
	C0->Y (FF)	0.18152	0.34688	0.73951
	C1->Y (FF)	0.17616	0.33860	0.72594

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO222X1P4H7H	A0	0.00051	0.00058	0.00064
	A0	0.00019	0.00019	0.00019
	A0	-0.00008	-0.00008	-0.00006
	A0	0.00256	0.00263	0.00270
	A1	0.00051	0.00058	0.00065
	A1	0.00018	0.00019	0.00019
	A1	-0.00004	-0.00004	-0.00003
	A1	0.00235	0.00242	0.00249
	B0	0.00053	0.00060	0.00066
	B0	0.00008	0.00010	0.00013
	B0	-0.00008	-0.00008	-0.00007
	B0	0.00228	0.00235	0.00241
	B1	0.00051	0.00057	0.00063
	B1	0.00008	0.00010	0.00013
	B1	-0.00004	-0.00004	-0.00003
	B1	0.00209	0.00216	0.00223
	C0	0.00055	0.00062	0.00068
	C0	0.00001	0.00001	0.00003
	C0	-0.00008	-0.00007	-0.00007
	C0	0.00202	0.00209	0.00214
	C1	0.00053	0.00061	0.00073
	C1	0.00001	0.00001	0.00002
	C1	-0.00004	-0.00004	-0.00003
	C1	0.00189	0.00196	0.00203

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO222X1P4H7H	A0	0.00278	0.00284	0.00290
	A0	-0.00018	-0.00017	-0.00017
	A0	0.00015	0.00015	0.00016
	A0	0.00064	0.00071	0.00077
	A1	0.00263	0.00270	0.00277
	A1	-0.00017	-0.00017	-0.00016
	A1	0.00011	0.00011	0.00012
	A1	0.00068	0.00075	0.00082
	B0	0.00241	0.00246	0.00253
	B0	-0.00012	-0.00010	-0.00008
	B0	0.00014	0.00015	0.00016
	B0	0.00066	0.00072	0.00078
	B1	0.00230	0.00236	0.00243
	B1	-0.00012	-0.00010	-0.00008
	B1	0.00011	0.00011	0.00012
	B1	0.00068	0.00075	0.00081
	C0	0.00199	0.00204	0.00211
	C0	-0.00001	-0.00001	-0.00000
	C0	0.00015	0.00015	0.00015
	C0	0.00060	0.00065	0.00072
	C1	0.00189	0.00196	0.00204
	C1	-0.00001	-0.00001	0.00000
	C1	0.00011	0.00011	0.00011
	C1	0.00058	0.00065	0.00074

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X1P4H7H	**(A1 * B0 * B1 * C0 * C1 * Y)**	-0.00010	-0.00009	-0.00006
	(A1 * B0 * B1 * C0 * C1 * Y)	-0.00003	-0.00002	-0.00002
	(A1 * B0 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C0 * C1 * Y)	0.00029	0.00029	0.00029
	(A1 * B0 * B1 * !C1 * Y)	-0.00010	-0.00009	-0.00006
	(A1 * B0 * B1 * !C1 * Y)	-0.00003	-0.00003	-0.00002
	(A1 * B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C1 * Y)	0.00029	0.00029	0.00029
	(A1 * B0 * B1 * !C0 * C1 * Y)	-0.00010	-0.00009	-0.00007
	(A1 * B0 * B1 * !C0 * C1 * Y)	-0.00003	-0.00003	-0.00002
	(A1 * B0 * B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C0 * C1 * Y)	0.00029	0.00029	0.00029
	(A1 * !B1 * C0 * C1 * Y)	-0.00010	-0.00008	-0.00006
	(A1 * !B1 * C0 * C1 * Y)	-0.00003	-0.00002	-0.00002
	(A1 * !B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * !B1 * C0 * C1 * Y)	0.00029	0.00029	0.00029
	(A1 * !B0 * B1 * C0 * C1 * Y)	-0.00010	-0.00008	-0.00007
	(A1 * !B0 * B1 * C0 * C1 * Y)	-0.00003	-0.00003	-0.00002
	(A1 * !B0 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * C0 * C1 * Y)	0.00029	0.00029	0.00030
	(!A1 * B0 * B1 * Y)	-0.00015	-0.00015	-0.00014
	(!A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * Y)	0.00025	0.00026	0.00026
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	-0.00015	-0.00015	-0.00015
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	0.00025	0.00026	0.00026
	(!A1 * !B1 * !C1 * !Y)	-0.00020	-0.00020	-0.00020
	(!A1 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C1 * !Y)	0.00020	0.00021	0.00021
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00020	-0.00020	-0.00020
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00020	0.00021	0.00021
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00020	-0.00020	-0.00020
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00020	0.00020	0.00021
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	-0.00020	-0.00020	-0.00020
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	0.00020	0.00020	0.00021

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X1P4H7H	**(A1 * B0 * B1 * C0 * C1 * Y)**	0.00010	0.00010	0.00011
	(A1 * B0 * B1 * C0 * C1 * Y)	0.00002	0.00002	0.00003
	(A1 * B0 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * C0 * C1 * Y)	-0.00029	-0.00028	-0.00028
	(A1 * B0 * B1 * !C1 * Y)	0.00010	0.00010	0.00010
	(A1 * B0 * B1 * !C1 * Y)	0.00002	0.00003	0.00003
	(A1 * B0 * B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * !C1 * Y)	-0.00029	-0.00028	-0.00028
	(A1 * B0 * B1 * !C0 * C1 * Y)	0.00010	0.00010	0.00010
	(A1 * B0 * B1 * !C0 * C1 * Y)	0.00002	0.00003	0.00003
	(A1 * B0 * B1 * !C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * !C0 * C1 * Y)	-0.00029	-0.00028	-0.00028
	(A1 * !B1 * C0 * C1 * Y)	0.00010	0.00010	0.00010
	(A1 * !B1 * C0 * C1 * Y)	0.00002	0.00002	0.00003
	(A1 * !B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B1 * C0 * C1 * Y)	-0.00029	-0.00029	-0.00029
	(A1 * !B0 * B1 * C0 * C1 * Y)	0.00009	0.00010	0.00010
	(A1 * !B0 * B1 * C0 * C1 * Y)	0.00002	0.00003	0.00003
	(A1 * !B0 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * B1 * C0 * C1 * Y)	-0.00029	-0.00029	-0.00028
	(!A1 * B0 * B1 * Y)	0.00015	0.00015	0.00015
	(!A1 * B0 * B1 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * Y)	-0.00026	-0.00025	-0.00024
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	0.00015	0.00015	0.00015
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	0.00001	0.00001	0.00002
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	-0.00026	-0.00025	-0.00023
	(!A1 * !B1 * !C1 * !Y)	0.00020	0.00020	0.00021
	(!A1 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C1 * !Y)	-0.00021	-0.00019	-0.00017
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00020	0.00020	0.00021
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00021	-0.00019	-0.00017
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00020	0.00020	0.00021
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00021	-0.00019	-0.00018
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	0.00020	0.00020	0.00021
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	-0.00021	-0.00019	-0.00018

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X1P4H7H	**(A0 * B0 * B1 * C0 * C1 * Y)**	-0.00010	-0.00008	-0.00006
	(A0 * B0 * B1 * C0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * C0 * C1 * Y)	0.00026	0.00026	0.00026
	(A0 * B0 * B1 * !C1 * Y)	-0.00010	-0.00008	-0.00007
	(A0 * B0 * B1 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !C1 * Y)	0.00026	0.00026	0.00026
	(A0 * B0 * B1 * !C0 * C1 * Y)	-0.00010	-0.00008	-0.00006
	(A0 * B0 * B1 * !C0 * C1 * Y)	-0.00003	-0.00002	-0.00002
	(A0 * B0 * B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !C0 * C1 * Y)	0.00026	0.00026	0.00026
	(A0 * !B1 * C0 * C1 * Y)	-0.00009	-0.00008	-0.00007
	(A0 * !B1 * C0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !B1 * C0 * C1 * Y)	0.00026	0.00026	0.00026
	(A0 * !B0 * B1 * C0 * C1 * Y)	-0.00009	-0.00008	-0.00006
	(A0 * !B0 * B1 * C0 * C1 * Y)	-0.00003	-0.00002	-0.00002
	(A0 * !B0 * B1 * C0 * C1 * Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * B1 * C0 * C1 * Y)	0.00026	0.00026	0.00026
	(!A0 * B0 * B1 * C0 * C1 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * B0 * B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * C0 * C1 * Y)	0.00022	0.00022	0.00022
	(!A0 * B0 * B1 * !C1 * Y)	-0.00014	-0.00014	-0.00013
	(!A0 * B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * !C1 * Y)	0.00022	0.00022	0.00022
	(!A0 * B0 * B1 * !C0 * C1 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * B0 * B1 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * B1 * !C0 * C1 * Y)	0.00001	0.00001	0.00002
	(!A0 * B0 * B1 * !C0 * C1 * Y)	0.00022	0.00022	0.00022
	(!A0 * !B1 * C0 * C1 * Y)	-0.00014	-0.00014	-0.00013
	(!A0 * !B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * C0 * C1 * Y)	0.00022	0.00022	0.00022
	(!A0 * !B1 * !C1 * !Y)	-0.00025	-0.00025	-0.00025
	(!A0 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * !C1 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !B1 * !C1 * !Y)	0.00004	0.00004	0.00005
	(!A0 * !B1 * !C0 * C1 * !Y)	-0.00025	-0.00025	-0.00024
	(!A0 * !B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * !C0 * C1 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !B1 * !C0 * C1 * !Y)	0.00004	0.00004	0.00005
	(!A0 * !B0 * B1 * C0 * C1 * Y)	-0.00014	-0.00014	-0.00013
	(!A0 * !B0 * B1 * C0 * C1 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !B0 * B1 * C0 * C1 * Y)	0.00001	0.00001	0.00002
	(!A0 * !B0 * B1 * C0 * C1 * Y)	0.00022	0.00022	0.00022
	(!A0 * !B0 * B1 * !C1 * !Y)	-0.00025	-0.00025	-0.00024
	(!A0 * !B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * B1 * !C1 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !B0 * B1 * !C1 * !Y)	0.00004	0.00004	0.00005
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	-0.00025	-0.00025	-0.00024
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	0.00004	0.00004	0.00005

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X1P4H7H	**(A0 * B0 * B1 * C0 * C1 * Y)**	0.00010	0.00010	0.00010
	(A0 * B0 * B1 * C0 * C1 * Y)	0.00002	0.00002	0.00002
	(A0 * B0 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * C0 * C1 * Y)	-0.00026	-0.00026	-0.00025
	(A0 * B0 * B1 * !C1 * Y)	0.00010	0.00010	0.00010
	(A0 * B0 * B1 * !C1 * Y)	0.00002	0.00002	0.00002
	(A0 * B0 * B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * !C1 * Y)	-0.00026	-0.00026	-0.00025
	(A0 * B0 * B1 * !C0 * C1 * Y)	0.00009	0.00010	0.00010
	(A0 * B0 * B1 * !C0 * C1 * Y)	0.00002	0.00002	0.00003
	(A0 * B0 * B1 * !C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * B1 * !C0 * C1 * Y)	-0.00026	-0.00026	-0.00025
	(A0 * !B1 * C0 * C1 * Y)	0.00009	0.00009	0.00009
	(A0 * !B1 * C0 * C1 * Y)	0.00002	0.00002	0.00003
	(A0 * !B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B1 * C0 * C1 * Y)	-0.00026	-0.00026	-0.00025
	(A0 * !B0 * B1 * C0 * C1 * Y)	0.00009	0.00009	0.00009
	(A0 * !B0 * B1 * C0 * C1 * Y)	0.00002	0.00002	0.00003
	(A0 * !B0 * B1 * C0 * C1 * Y)	-0.00001	-0.00000	-0.00000
	(A0 * !B0 * B1 * C0 * C1 * Y)	-0.00026	-0.00026	-0.00026
	(!A0 * B0 * B1 * C0 * C1 * Y)	0.00014	0.00014	0.00014
	(!A0 * B0 * B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * C0 * C1 * Y)	-0.00022	-0.00021	-0.00020
	(!A0 * B0 * B1 * !C1 * Y)	0.00014	0.00014	0.00014
	(!A0 * B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * !C1 * Y)	-0.00022	-0.00021	-0.00020
	(!A0 * B0 * B1 * !C0 * C1 * Y)	0.00014	0.00014	0.00014
	(!A0 * B0 * B1 * !C0 * C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * B1 * !C0 * C1 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * B0 * B1 * !C0 * C1 * Y)	-0.00022	-0.00021	-0.00021
	(!A0 * !B1 * C0 * C1 * Y)	0.00014	0.00014	0.00014
	(!A0 * !B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * C0 * C1 * Y)	-0.00022	-0.00021	-0.00020
	(!A0 * !B1 * !C1 * !Y)	0.00025	0.00025	0.00025
	(!A0 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * !C1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !B1 * !C1 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !B1 * !C0 * C1 * !Y)	0.00025	0.00025	0.00025
	(!A0 * !B1 * !C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * !C0 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !B1 * !C0 * C1 * !Y)	-0.00005	-0.00004	-0.00004
	(!A0 * !B0 * B1 * C0 * C1 * Y)	0.00013	0.00014	0.00014
	(!A0 * !B0 * B1 * C0 * C1 * Y)	0.00001	0.00001	0.00002
	(!A0 * !B0 * B1 * C0 * C1 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !B0 * B1 * C0 * C1 * Y)	-0.00022	-0.00021	-0.00020
	(!A0 * !B0 * B1 * !C1 * !Y)	0.00025	0.00025	0.00025
	(!A0 * !B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * B1 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !B0 * B1 * !C1 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	0.00025	0.00025	0.00025
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	-0.00004	-0.00004	-0.00004

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X1P4H7H	**(A0 * A1 * B1 * C0 * C1 * Y)**	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * C0 * C1 * Y)	-0.00006	-0.00005	-0.00005
	(A0 * A1 * B1 * C0 * C1 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B1 * C0 * C1 * Y)	0.00025	0.00025	0.00025
	(A0 * A1 * B1 * !C1 * Y)	-0.00000	0.00000	0.00001
	(A0 * A1 * B1 * !C1 * Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C1 * Y)	0.00025	0.00025	0.00025
	(A0 * A1 * B1 * !C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * B1 * !C0 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * Y)	0.00025	0.00025	0.00025
	(A0 * A1 * !B1 * C0 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * C1 * Y)	-0.00006	-0.00005	-0.00005
	(A0 * A1 * !B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * C0 * C1 * Y)	0.00022	0.00022	0.00022
	(A0 * A1 * !B1 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * !B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !C1 * Y)	0.00022	0.00022	0.00022
	(A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * !B1 * !C0 * C1 * Y)	0.00001	0.00002	0.00002
	(A0 * A1 * !B1 * !C0 * C1 * Y)	0.00022	0.00022	0.00022
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	-0.00016	-0.00016	-0.00016
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	0.00020	0.00020	0.00020
	(!A1 * B1 * C0 * C1 * Y)	-0.00012	-0.00011	-0.00009
	(!A1 * B1 * C0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B1 * C0 * C1 * Y)	0.00023	0.00024	0.00024
	(!A1 * !B1 * !C1 * !Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C1 * !Y)	0.00017	0.00017	0.00017
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00017	0.00017	0.00017
	(!A0 * A1 * B1 * C0 * C1 * Y)	-0.00012	-0.00011	-0.00009
	(!A0 * A1 * B1 * C0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * C1 * Y)	0.00023	0.00024	0.00024
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00019	-0.00019	-0.00019
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00017	0.00017	0.00017
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00019	-0.00019	-0.00019
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00017	0.00017	0.00017

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X1P4H7H	**(A0 * A1 * B1 * C0 * C1 * Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * C1 * Y)	0.00005	0.00006	0.00006
	(A0 * A1 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * C0 * C1 * Y)	-0.00025	-0.00025	-0.00025
	(A0 * A1 * B1 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C1 * Y)	0.00004	0.00004	0.00004
	(A0 * A1 * B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * !C1 * Y)	-0.00025	-0.00025	-0.00024
	(A0 * A1 * B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * Y)	0.00004	0.00004	0.00005
	(A0 * A1 * B1 * !C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * Y)	-0.00025	-0.00025	-0.00025
	(A0 * A1 * !B1 * C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B1 * C0 * C1 * Y)	0.00005	0.00005	0.00006
	(A0 * A1 * !B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * C0 * C1 * Y)	-0.00022	-0.00021	-0.00020
	(A0 * A1 * !B1 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * Y)	0.00004	0.00004	0.00004
	(A0 * A1 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C1 * Y)	-0.00022	-0.00022	-0.00021
	(A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * C1 * Y)	0.00004	0.00004	0.00004
	(A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00022	-0.00021	-0.00020
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	0.00016	0.00016	0.00016
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	-0.00020	-0.00019	-0.00018
	(!A1 * B1 * C0 * C1 * Y)	0.00012	0.00012	0.00013
	(!A1 * B1 * C0 * C1 * Y)	0.00002	0.00002	0.00002
	(!A1 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B1 * C0 * C1 * Y)	-0.00024	-0.00023	-0.00023
	(!A1 * !B1 * !C1 * !Y)	0.00019	0.00019	0.00020
	(!A1 * !B1 * !C1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C1 * !Y)	-0.00017	-0.00016	-0.00015
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00019	0.00019	0.00020
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00017	-0.00016	-0.00015
	(!A0 * A1 * B1 * C0 * C1 * Y)	0.00012	0.00012	0.00012
	(!A0 * A1 * B1 * C0 * C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * B1 * C0 * C1 * Y)	-0.00024	-0.00023	-0.00023
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00019	0.00019	0.00020
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00017	-0.00016	-0.00015
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00019	0.00019	0.00020
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00017	-0.00016	-0.00015

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X1P4H7H	**(A0 * A1 * B0 * C0 * C1 * Y)**	-0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * C1 * Y)	-0.00006	-0.00006	-0.00006
	(A0 * A1 * B0 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * C1 * Y)	0.00023	0.00023	0.00023
	(A0 * A1 * B0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * !C1 * Y)	-0.00005	-0.00005	-0.00004
	(A0 * A1 * B0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C1 * Y)	0.00023	0.00023	0.00023
	(A0 * A1 * B0 * !C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B0 * !C0 * C1 * Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * B0 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * C1 * Y)	0.00023	0.00023	0.00023
	(A0 * A1 * !B0 * C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * C0 * C1 * Y)	-0.00006	-0.00006	-0.00006
	(A0 * A1 * !B0 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * C0 * C1 * Y)	0.00020	0.00020	0.00020
	(A0 * A1 * !B0 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C1 * Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * !B0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * !C1 * Y)	0.00020	0.00020	0.00020
	(A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * !B0 * !C0 * C1 * Y)	0.00001	0.00001	0.00002
	(A0 * A1 * !B0 * !C0 * C1 * Y)	0.00020	0.00020	0.00020
	(!A1 * B0 * C0 * C1 * Y)	-0.00015	-0.00014	-0.00012
	(!A1 * B0 * C0 * C1 * Y)	-0.00003	-0.00002	-0.00002
	(!A1 * B0 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * C0 * C1 * Y)	0.00021	0.00021	0.00022
	(!A1 * !B0 * C0 * C1 * Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * C1 * Y)	0.00017	0.00017	0.00017
	(!A1 * !B0 * !C1 * !Y)	-0.00027	-0.00027	-0.00027
	(!A1 * !B0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !C1 * !Y)	0.00002	0.00003	0.00003
	(!A1 * !B0 * !C1 * !Y)	0.00003	0.00003	0.00004
	(!A1 * !B0 * !C0 * C1 * !Y)	-0.00027	-0.00027	-0.00027
	(!A1 * !B0 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !C0 * C1 * !Y)	0.00002	0.00003	0.00003
	(!A1 * !B0 * !C0 * C1 * !Y)	0.00003	0.00003	0.00004
	(!A0 * A1 * B0 * C0 * C1 * Y)	-0.00015	-0.00013	-0.00011
	(!A0 * A1 * B0 * C0 * C1 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * B0 * C0 * C1 * Y)	-0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * C0 * C1 * Y)	0.00021	0.00021	0.00022
	(!A0 * A1 * !B0 * C0 * C1 * Y)	-0.00019	-0.00019	-0.00019
	(!A0 * A1 * !B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * C0 * C1 * Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * !B0 * C0 * C1 * Y)	0.00017	0.00017	0.00017
	(!A0 * A1 * !B0 * !C1 * !Y)	-0.00027	-0.00027	-0.00027
	(!A0 * A1 * !B0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B0 * !C1 * !Y)	0.00002	0.00003	0.00003
	(!A0 * A1 * !B0 * !C1 * !Y)	0.00003	0.00003	0.00004
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00027	-0.00027	-0.00027
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00002	0.00003	0.00003
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00003	0.00003	0.00004

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X1P4H7H	**(A0 * A1 * B0 * C0 * C1 * Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * C1 * Y)	0.00006	0.00006	0.00006
	(A0 * A1 * B0 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * C0 * C1 * Y)	-0.00023	-0.00023	-0.00022
	(A0 * A1 * B0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C1 * Y)	0.00005	0.00005	0.00005
	(A0 * A1 * B0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * !C1 * Y)	-0.00023	-0.00023	-0.00023
	(A0 * A1 * B0 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * C1 * Y)	0.00005	0.00005	0.00005
	(A0 * A1 * B0 * !C0 * C1 * Y)	-0.00000	-0.00000	0.00001
	(A0 * A1 * B0 * !C0 * C1 * Y)	-0.00023	-0.00023	-0.00023
	(A0 * A1 * !B0 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * C0 * C1 * Y)	0.00006	0.00006	0.00006
	(A0 * A1 * !B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * C0 * C1 * Y)	-0.00020	-0.00019	-0.00018
	(A0 * A1 * !B0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C1 * Y)	0.00005	0.00005	0.00006
	(A0 * A1 * !B0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * !C1 * Y)	-0.00020	-0.00019	-0.00018
	(A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * C1 * Y)	0.00005	0.00005	0.00005
	(A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00002	-0.00001	-0.00001
	(A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00020	-0.00019	-0.00018
	(!A1 * B0 * C0 * C1 * Y)	0.00014	0.00015	0.00015
	(!A1 * B0 * C0 * C1 * Y)	0.00002	0.00002	0.00003
	(!A1 * B0 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * C0 * C1 * Y)	-0.00021	-0.00021	-0.00021
	(!A1 * !B0 * C0 * C1 * Y)	0.00019	0.00019	0.00019
	(!A1 * !B0 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * C1 * Y)	-0.00017	-0.00017	-0.00016
	(!A1 * !B0 * !C1 * !Y)	0.00027	0.00027	0.00027
	(!A1 * !B0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !C1 * !Y)	-0.00003	-0.00002	-0.00002
	(!A1 * !B0 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * !C0 * C1 * !Y)	0.00027	0.00027	0.00027
	(!A1 * !B0 * !C0 * C1 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * !C0 * C1 * !Y)	-0.00003	-0.00002	-0.00002
	(!A1 * !B0 * !C0 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * B0 * C0 * C1 * Y)	0.00015	0.00015	0.00016
	(!A0 * A1 * B0 * C0 * C1 * Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * B0 * C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * B0 * C0 * C1 * Y)	-0.00021	-0.00021	-0.00021
	(!A0 * A1 * !B0 * C0 * C1 * Y)	0.00019	0.00019	0.00019
	(!A0 * A1 * !B0 * C0 * C1 * Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * !B0 * C0 * C1 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * A1 * !B0 * C0 * C1 * Y)	-0.00017	-0.00017	-0.00016
	(!A0 * A1 * !B0 * !C1 * !Y)	0.00027	0.00027	0.00027
	(!A0 * A1 * !B0 * !C1 * !Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * !B0 * !C1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * A1 * !B0 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00027	0.00027	0.00027
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00003	-0.00003	-0.00003

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X1P4H7H	**(A1 * B0 * B1 * C1 * Y)**	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C1 * Y)	0.00029	0.00029	0.00029
	(A1 * B0 * B1 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !C1 * Y)	0.00026	0.00026	0.00026
	(A0 * A1 * !B1 * C1 * Y)	-0.00000	0.00000	0.00001
	(A0 * A1 * !B1 * C1 * Y)	-0.00004	-0.00003	-0.00003
	(A0 * A1 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C1 * Y)	0.00029	0.00029	0.00029
	(A0 * A1 * !B1 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * A1 * !B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !C1 * Y)	0.00026	0.00026	0.00026
	(A0 * A1 * !B0 * B1 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C1 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * A1 * !B0 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C1 * Y)	0.00029	0.00029	0.00029
	(A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * A1 * !B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00002
	(A0 * A1 * !B0 * B1 * !C1 * Y)	0.00026	0.00026	0.00026
	(!A1 * B0 * B1 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * C1 * Y)	-0.00004	-0.00003	-0.00003
	(!A1 * B0 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * C1 * Y)	0.00029	0.00029	0.00029
	(!A1 * B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * !C1 * Y)	-0.00003	-0.00003	-0.00002
	(!A1 * B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C1 * Y)	0.00026	0.00026	0.00026
	(!A1 * !B1 * !C1 * !Y)	-0.00018	-0.00018	-0.00018
	(!A1 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C1 * !Y)	0.00016	0.00017	0.00017
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00018	-0.00018	-0.00018
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00016	0.00017	0.00017
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00018	-0.00018	-0.00018
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00016	0.00017	0.00017
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00018	-0.00018	-0.00018
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00016	0.00017	0.00017

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X1P4H7H	**(A1 * B0 * B1 * C1 * Y)**	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C1 * Y)	0.00003	0.00003	0.00004
	(A1 * B0 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * C1 * Y)	-0.00029	-0.00029	-0.00028
	(A1 * B0 * B1 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C1 * Y)	0.00003	0.00003	0.00003
	(A1 * B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !C1 * Y)	-0.00026	-0.00026	-0.00024
	(A0 * A1 * !B1 * C1 * Y)	-0.00001	0.00000	0.00000
	(A0 * A1 * !B1 * C1 * Y)	0.00003	0.00003	0.00004
	(A0 * A1 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B1 * C1 * Y)	-0.00029	-0.00028	-0.00028
	(A0 * A1 * !B1 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * Y)	0.00002	0.00003	0.00003
	(A0 * A1 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C1 * Y)	-0.00026	-0.00026	-0.00025
	(A0 * A1 * !B0 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C1 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B0 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B0 * B1 * C1 * Y)	-0.00029	-0.00028	-0.00028
	(A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C1 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00002	-0.00001	-0.00001
	(A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00026	-0.00026	-0.00024
	(!A1 * B0 * B1 * C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * B1 * C1 * Y)	0.00003	0.00003	0.00004
	(!A1 * B0 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * C1 * Y)	-0.00029	-0.00028	-0.00028
	(!A1 * B0 * B1 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * B1 * !C1 * Y)	0.00002	0.00003	0.00003
	(!A1 * B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !C1 * Y)	-0.00026	-0.00026	-0.00025
	(!A1 * !B1 * !C1 * !Y)	0.00018	0.00019	0.00019
	(!A1 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C1 * !Y)	-0.00017	-0.00016	-0.00014
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00018	0.00019	0.00019
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00017	-0.00016	-0.00014
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00018	0.00019	0.00019
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00017	-0.00016	-0.00014
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00018	0.00019	0.00019
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00017	-0.00016	-0.00014

Passive power(pJ) for C1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X1P4H7H	**(A1 * B0 * B1 * C0 * Y)**	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C0 * Y)	0.00034	0.00034	0.00034
	(A1 * B0 * B1 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * !C0 * Y)	-0.00003	-0.00003	-0.00002
	(A1 * B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !C0 * Y)	0.00031	0.00031	0.00031
	(A0 * A1 * !B1 * C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * Y)	0.00034	0.00034	0.00034
	(A0 * A1 * !B1 * !C0 * Y)	-0.00000	0.00000	0.00001
	(A0 * A1 * !B1 * !C0 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * A1 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !C0 * Y)	0.00031	0.00031	0.00031
	(A0 * A1 * !B0 * B1 * C0 * Y)	-0.00001	-0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C0 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * A1 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * !B0 * B1 * C0 * Y)	0.00034	0.00034	0.00034
	(A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00002
	(A0 * A1 * !B0 * B1 * !C0 * Y)	0.00031	0.00031	0.00031
	(!A1 * B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * C0 * Y)	0.00034	0.00034	0.00034
	(!A1 * B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * !C0 * Y)	-0.00003	-0.00003	-0.00002
	(!A1 * B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C0 * Y)	0.00031	0.00031	0.00031
	(!A1 * !B1 * !C0 * !Y)	-0.00029	-0.00029	-0.00029
	(!A1 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C0 * !Y)	0.00002	0.00003	0.00003
	(!A1 * !B1 * !C0 * !Y)	0.00003	0.00004	0.00004
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00029	-0.00029	-0.00029
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00002	0.00003	0.00003
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00003	0.00004	0.00004
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00029	-0.00029	-0.00029
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00003	0.00004	0.00004
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00029	-0.00029	-0.00029
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00003	0.00004	0.00004

Passive power(pJ) for C1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X1P4H7H	**(A1 * B0 * B1 * C0 * Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C0 * Y)	0.00003	0.00003	0.00003
	(A1 * B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * C0 * Y)	-0.00034	-0.00034	-0.00034
	(A1 * B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C0 * Y)	0.00003	0.00003	0.00003
	(A1 * B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !C0 * Y)	-0.00031	-0.00031	-0.00029
	(A0 * A1 * !B1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B1 * C0 * Y)	0.00003	0.00003	0.00004
	(A0 * A1 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B1 * C0 * Y)	-0.00034	-0.00034	-0.00034
	(A0 * A1 * !B1 * !C0 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * !B1 * !C0 * Y)	0.00002	0.00003	0.00003
	(A0 * A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C0 * Y)	-0.00031	-0.00031	-0.00030
	(A0 * A1 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * !B0 * B1 * C0 * Y)	0.00002	0.00003	0.00003
	(A0 * A1 * !B0 * B1 * C0 * Y)	-0.00001	-0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C0 * Y)	-0.00034	-0.00034	-0.00033
	(A0 * A1 * !B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C0 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00031	-0.00031	-0.00030
	(!A1 * B0 * B1 * C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * B1 * C0 * Y)	0.00003	0.00003	0.00004
	(!A1 * B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * C0 * Y)	-0.00034	-0.00034	-0.00034
	(!A1 * B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C0 * Y)	0.00002	0.00003	0.00003
	(!A1 * B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !C0 * Y)	-0.00031	-0.00030	-0.00030
	(!A1 * !B1 * !C0 * !Y)	0.00029	0.00029	0.00029
	(!A1 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A1 * !B1 * !C0 * !Y)	-0.00004	-0.00004	-0.00003
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00029	0.00029	0.00029
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00004	-0.00004	-0.00003
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00029	0.00029	0.00029
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00004	-0.00004	-0.00003
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00029	0.00029	0.00029
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00004	-0.00004	-0.00003

AO222X2H7H

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

Cell Description

AO

Y=(A0 & A1)(B0 & B1)(C0 & C1)

Truth Table

INPUT						OUTPUT
A0	A1	B0	B1	C0	C1	Y
0	x	0	x	0	x	0
0	x	0	x	1	0	0
0	x	x	x	1	1	1
0	x	1	0	0	x	0
0	x	1	0	1	0	0
x	x	1	1	x	x	1
1	0	0	x	0	x	0
1	0	0	x	1	0	0
1	0	x	x	1	1	1
1	0	1	0	0	x	0
1	0	1	0	1	0	0
1	1	x	x	x	x	1

Footprint

Cell Name	Area
AO222X2H7H	3.64000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	A1	B0	B1	C0	C1	Y
AO222X2H7H	0.00085	0.00086	0.00084	0.00082	0.00087	0.00095	0.05468

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO222X2H7H	0.00000	0.03132	0.04356

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO222X2H7H	A0->Y (RR)	0.11078	0.30084	0.76285
	A1->Y (RR)	0.10791	0.29893	0.76147
	B0->Y (RR)	0.10361	0.29129	0.74713
	B1->Y (RR)	0.10038	0.28865	0.74432
	C0->Y (RR)	0.09349	0.27821	0.72579
	C1->Y (RR)	0.09281	0.27764	0.72494

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO222X2H7H	A0->Y (FF)	0.22854	0.40071	0.79445
	A1->Y (FF)	0.21774	0.38789	0.77802
	B0->Y (FF)	0.21735	0.39051	0.79514
	B1->Y (FF)	0.20555	0.37689	0.77750
	C0->Y (FF)	0.18737	0.35446	0.74856
	C1->Y (FF)	0.18082	0.34539	0.73502

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO222X2H7H	A0	0.00061	0.00068	0.00075
	A0	0.00018	0.00018	0.00018
	A0	-0.00007	-0.00007	-0.00007
	A0	0.00262	0.00270	0.00277
	A1	0.00061	0.00067	0.00075
	A1	0.00018	0.00018	0.00018
	A1	-0.00003	-0.00003	-0.00001
	A1	0.00242	0.00249	0.00257
	B0	0.00063	0.00071	0.00077
	B0	0.00009	0.00010	0.00010
	B0	-0.00007	-0.00007	-0.00007
	B0	0.00236	0.00244	0.00250
	B1	0.00061	0.00068	0.00075
	B1	0.00008	0.00009	0.00010
	B1	-0.00003	-0.00003	-0.00003
	B1	0.00217	0.00224	0.00231
	C0	0.00066	0.00074	0.00081
	C0	0.00000	0.00001	0.00004
	C0	-0.00007	-0.00007	-0.00006
	C0	0.00213	0.00221	0.00227
	C1	0.00066	0.00073	0.00081
	C1	0.00000	0.00001	0.00001
	C1	-0.00003	-0.00003	-0.00002
	C1	0.00199	0.00207	0.00214

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO222X2H7H	A0	0.00286	0.00292	0.00299
	A0	-0.00017	-0.00016	-0.00016
	A0	0.00013	0.00014	0.00015
	A0	0.00076	0.00083	0.00090
	A1	0.00271	0.00279	0.00287
	A1	-0.00017	-0.00016	-0.00016
	A1	0.00011	0.00011	0.00012
	A1	0.00079	0.00087	0.00095
	B0	0.00250	0.00255	0.00263
	B0	-0.00009	-0.00009	-0.00008
	B0	0.00014	0.00014	0.00016
	B0	0.00077	0.00084	0.00091
	B1	0.00238	0.00244	0.00251
	B1	-0.00010	-0.00008	-0.00004
	B1	0.00009	0.00011	0.00012
	B1	0.00080	0.00086	0.00094
	C0	0.00207	0.00213	0.00220
	C0	-0.00001	-0.00001	0.00000
	C0	0.00014	0.00014	0.00014
	C0	0.00068	0.00074	0.00081
	C1	0.00196	0.00203	0.00212
	C1	-0.00001	-0.00001	0.00001
	C1	0.00010	0.00011	0.00011
	C1	0.00067	0.00075	0.00084

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X2H7H	**(A1 * B0 * B1 * C0 * C1 * Y)**	-0.00010	-0.00009	-0.00006
	(A1 * B0 * B1 * C0 * C1 * Y)	-0.00003	-0.00002	-0.00002
	(A1 * B0 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C0 * C1 * Y)	0.00028	0.00028	0.00028
	(A1 * B0 * B1 * !C1 * Y)	-0.00010	-0.00009	-0.00006
	(A1 * B0 * B1 * !C1 * Y)	-0.00003	-0.00003	-0.00002
	(A1 * B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C1 * Y)	0.00028	0.00028	0.00028
	(A1 * B0 * B1 * !C0 * C1 * Y)	-0.00010	-0.00009	-0.00006
	(A1 * B0 * B1 * !C0 * C1 * Y)	-0.00003	-0.00003	-0.00002
	(A1 * B0 * B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C0 * C1 * Y)	0.00028	0.00028	0.00028
	(A1 * !B1 * C0 * C1 * Y)	-0.00010	-0.00008	-0.00006
	(A1 * !B1 * C0 * C1 * Y)	-0.00003	-0.00003	-0.00002
	(A1 * !B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * !B1 * C0 * C1 * Y)	0.00028	0.00028	0.00029
	(A1 * !B0 * B1 * C0 * C1 * Y)	-0.00010	-0.00008	-0.00007
	(A1 * !B0 * B1 * C0 * C1 * Y)	-0.00003	-0.00003	-0.00002
	(A1 * !B0 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * C0 * C1 * Y)	0.00028	0.00029	0.00029
	(!A1 * B0 * B1 * Y)	-0.00015	-0.00015	-0.00015
	(!A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * Y)	0.00025	0.00025	0.00025
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	-0.00015	-0.00015	-0.00014
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	0.00024	0.00025	0.00025
	(!A1 * !B1 * !C1 * !Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C1 * !Y)	0.00021	0.00021	0.00021
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00021	0.00021	0.00021
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00021	0.00021	0.00021
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	0.00000
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	0.00021	0.00021	0.00021

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X2H7H	**(A1 * B0 * B1 * C0 * C1 * Y)**	0.00010	0.00010	0.00011
	(A1 * B0 * B1 * C0 * C1 * Y)	0.00002	0.00002	0.00003
	(A1 * B0 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * C0 * C1 * Y)	-0.00028	-0.00028	-0.00028
	(A1 * B0 * B1 * !C1 * Y)	0.00010	0.00010	0.00010
	(A1 * B0 * B1 * !C1 * Y)	0.00002	0.00003	0.00003
	(A1 * B0 * B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * !C1 * Y)	-0.00028	-0.00028	-0.00027
	(A1 * B0 * B1 * !C0 * C1 * Y)	0.00010	0.00010	0.00010
	(A1 * B0 * B1 * !C0 * C1 * Y)	0.00002	0.00003	0.00003
	(A1 * B0 * B1 * !C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * !C0 * C1 * Y)	-0.00028	-0.00028	-0.00027
	(A1 * !B1 * C0 * C1 * Y)	0.00009	0.00010	0.00010
	(A1 * !B1 * C0 * C1 * Y)	0.00002	0.00003	0.00003
	(A1 * !B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B1 * C0 * C1 * Y)	-0.00028	-0.00028	-0.00028
	(A1 * !B0 * B1 * C0 * C1 * Y)	0.00009	0.00010	0.00010
	(A1 * !B0 * B1 * C0 * C1 * Y)	0.00003	0.00003	0.00003
	(A1 * !B0 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * B1 * C0 * C1 * Y)	-0.00028	-0.00028	-0.00028
	(!A1 * B0 * B1 * Y)	0.00015	0.00015	0.00016
	(!A1 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * Y)	-0.00025	-0.00024	-0.00023
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	0.00014	0.00015	0.00015
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	0.00001	0.00001	0.00002
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	-0.00025	-0.00024	-0.00022
	(!A1 * !B1 * !C1 * !Y)	0.00019	0.00019	0.00020
	(!A1 * !B1 * !C1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C1 * !Y)	-0.00021	-0.00020	-0.00019
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00019	0.00019	0.00020
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00021	-0.00020	-0.00019
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00019	0.00019	0.00020
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00021	-0.00020	-0.00019
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	0.00019	0.00019	0.00020
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	-0.00021	-0.00020	-0.00019

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X2H7H	**(A0 * B0 * B1 * C0 * C1 * Y)**	-0.00010	-0.00008	-0.00006
	(A0 * B0 * B1 * C0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * C0 * C1 * Y)	0.00026	0.00026	0.00026
	(A0 * B0 * B1 * !C1 * Y)	-0.00010	-0.00008	-0.00007
	(A0 * B0 * B1 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !C1 * Y)	0.00026	0.00026	0.00026
	(A0 * B0 * B1 * !C0 * C1 * Y)	-0.00010	-0.00008	-0.00007
	(A0 * B0 * B1 * !C0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !C0 * C1 * Y)	0.00026	0.00026	0.00026
	(A0 * !B1 * C0 * C1 * Y)	-0.00009	-0.00008	-0.00006
	(A0 * !B1 * C0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !B1 * C0 * C1 * Y)	0.00026	0.00026	0.00027
	(A0 * !B0 * B1 * C0 * C1 * Y)	-0.00009	-0.00008	-0.00006
	(A0 * !B0 * B1 * C0 * C1 * Y)	-0.00003	-0.00002	-0.00002
	(A0 * !B0 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * B1 * C0 * C1 * Y)	0.00026	0.00026	0.00027
	(!A0 * B0 * B1 * C0 * C1 * Y)	-0.00014	-0.00014	-0.00013
	(!A0 * B0 * B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * C0 * C1 * Y)	0.00022	0.00022	0.00022
	(!A0 * B0 * B1 * !C1 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * !C1 * Y)	0.00022	0.00022	0.00022
	(!A0 * B0 * B1 * !C0 * C1 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * B0 * B1 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * B1 * !C0 * C1 * Y)	0.00001	0.00001	0.00002
	(!A0 * B0 * B1 * !C0 * C1 * Y)	0.00022	0.00022	0.00022
	(!A0 * !B1 * C0 * C1 * Y)	-0.00014	-0.00014	-0.00013
	(!A0 * !B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * C0 * C1 * Y)	0.00022	0.00022	0.00022
	(!A0 * !B1 * !C1 * !Y)	-0.00024	-0.00024	-0.00024
	(!A0 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * !C1 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !B1 * !C1 * !Y)	0.00004	0.00005	0.00005
	(!A0 * !B1 * !C0 * C1 * !Y)	-0.00024	-0.00024	-0.00024
	(!A0 * !B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * !C0 * C1 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !B1 * !C0 * C1 * !Y)	0.00004	0.00005	0.00005
	(!A0 * !B0 * B1 * C0 * C1 * Y)	-0.00014	-0.00014	-0.00013
	(!A0 * !B0 * B1 * C0 * C1 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !B0 * B1 * C0 * C1 * Y)	0.00001	0.00001	0.00002
	(!A0 * !B0 * B1 * C0 * C1 * Y)	0.00022	0.00022	0.00022
	(!A0 * !B0 * B1 * !C1 * !Y)	-0.00024	-0.00024	-0.00024
	(!A0 * !B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * B1 * !C1 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !B0 * B1 * !C1 * !Y)	0.00004	0.00005	0.00005
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	-0.00024	-0.00024	-0.00024
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	0.00004	0.00005	0.00005

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X2H7H	**(A0 * B0 * B1 * C0 * C1 * Y)**	0.00010	0.00010	0.00010
	(A0 * B0 * B1 * C0 * C1 * Y)	0.00002	0.00002	0.00002
	(A0 * B0 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * C0 * C1 * Y)	-0.00026	-0.00026	-0.00026
	(A0 * B0 * B1 * !C1 * Y)	0.00010	0.00010	0.00010
	(A0 * B0 * B1 * !C1 * Y)	0.00002	0.00002	0.00002
	(A0 * B0 * B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * !C1 * Y)	-0.00026	-0.00026	-0.00026
	(A0 * B0 * B1 * !C0 * C1 * Y)	0.00010	0.00010	0.00010
	(A0 * B0 * B1 * !C0 * C1 * Y)	0.00002	0.00002	0.00002
	(A0 * B0 * B1 * !C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * !C0 * C1 * Y)	-0.00026	-0.00026	-0.00025
	(A0 * !B1 * C0 * C1 * Y)	0.00009	0.00009	0.00009
	(A0 * !B1 * C0 * C1 * Y)	0.00002	0.00002	0.00002
	(A0 * !B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B1 * C0 * C1 * Y)	-0.00026	-0.00026	-0.00026
	(A0 * !B0 * B1 * C0 * C1 * Y)	0.00009	0.00009	0.00009
	(A0 * !B0 * B1 * C0 * C1 * Y)	0.00002	0.00002	0.00003
	(A0 * !B0 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * !B0 * B1 * C0 * C1 * Y)	-0.00026	-0.00026	-0.00026
	(!A0 * B0 * B1 * C0 * C1 * Y)	0.00014	0.00014	0.00014
	(!A0 * B0 * B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * C0 * C1 * Y)	-0.00022	-0.00021	-0.00020
	(!A0 * B0 * B1 * !C1 * Y)	0.00014	0.00014	0.00014
	(!A0 * B0 * B1 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * !C1 * Y)	-0.00022	-0.00021	-0.00021
	(!A0 * B0 * B1 * !C0 * C1 * Y)	0.00014	0.00014	0.00014
	(!A0 * B0 * B1 * !C0 * C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * B1 * !C0 * C1 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * B0 * B1 * !C0 * C1 * Y)	-0.00022	-0.00021	-0.00020
	(!A0 * !B1 * C0 * C1 * Y)	0.00013	0.00014	0.00014
	(!A0 * !B1 * C0 * C1 * Y)	0.00001	0.00001	0.00002
	(!A0 * !B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * C0 * C1 * Y)	-0.00022	-0.00021	-0.00021
	(!A0 * !B1 * !C1 * !Y)	0.00024	0.00024	0.00025
	(!A0 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * !C1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !B1 * !C1 * !Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !B1 * !C0 * C1 * !Y)	0.00024	0.00024	0.00025
	(!A0 * !B1 * !C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * !C0 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !B1 * !C0 * C1 * !Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !B0 * B1 * C0 * C1 * Y)	0.00013	0.00014	0.00014
	(!A0 * !B0 * B1 * C0 * C1 * Y)	0.00001	0.00001	0.00002
	(!A0 * !B0 * B1 * C0 * C1 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !B0 * B1 * C0 * C1 * Y)	-0.00022	-0.00021	-0.00020
	(!A0 * !B0 * B1 * !C1 * !Y)	0.00024	0.00024	0.00025
	(!A0 * !B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * B1 * !C1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !B0 * B1 * !C1 * !Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	0.00024	0.00024	0.00025
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	-0.00005	-0.00005	-0.00004

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X2H7H	**(A0 * A1 * B1 * C0 * C1 * Y)**	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * C0 * C1 * Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * C1 * Y)	0.00027	0.00027	0.00027
	(A0 * A1 * B1 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * !C1 * Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C1 * Y)	0.00026	0.00026	0.00027
	(A0 * A1 * B1 * !C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * Y)	0.00026	0.00027	0.00027
	(A0 * A1 * !B1 * C0 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * C1 * Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * !B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * C0 * C1 * Y)	0.00024	0.00024	0.00024
	(A0 * A1 * !B1 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * Y)	-0.00005	-0.00004	-0.00004
	(A0 * A1 * !B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !C1 * Y)	0.00024	0.00024	0.00024
	(A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * !B1 * !C0 * C1 * Y)	0.00001	0.00002	0.00002
	(A0 * A1 * !B1 * !C0 * C1 * Y)	0.00024	0.00024	0.00024
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	-0.00016	-0.00016	-0.00016
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	0.00001	0.00001	0.00002
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	0.00021	0.00021	0.00021
	(!A1 * B1 * C0 * C1 * Y)	-0.00012	-0.00011	-0.00008
	(!A1 * B1 * C0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B1 * C0 * C1 * Y)	0.00025	0.00025	0.00026
	(!A1 * !B1 * !C1 * !Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B1 * !C1 * !Y)	-0.00001	-0.00001	0.00000
	(!A1 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C1 * !Y)	0.00018	0.00018	0.00018
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	0.00000
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00018	0.00018	0.00018
	(!A0 * A1 * B1 * C0 * C1 * Y)	-0.00012	-0.00011	-0.00009
	(!A0 * A1 * B1 * C0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * B1 * C0 * C1 * Y)	0.00025	0.00025	0.00026
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00019	-0.00019	-0.00019
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00001	-0.00001	0.00000
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00018	0.00018	0.00018
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00019	-0.00019	-0.00019
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	0.00000
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00018	0.00018	0.00018

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X2H7H	**(A0 * A1 * B1 * C0 * C1 * Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * C1 * Y)	0.00005	0.00005	0.00005
	(A0 * A1 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * C0 * C1 * Y)	-0.00027	-0.00027	-0.00026
	(A0 * A1 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C1 * Y)	0.00004	0.00004	0.00004
	(A0 * A1 * B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * !C1 * Y)	-0.00027	-0.00026	-0.00026
	(A0 * A1 * B1 * !C0 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * Y)	0.00004	0.00004	0.00005
	(A0 * A1 * B1 * !C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * Y)	-0.00027	-0.00026	-0.00026
	(A0 * A1 * !B1 * C0 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * C1 * Y)	0.00005	0.00005	0.00006
	(A0 * A1 * !B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * C0 * C1 * Y)	-0.00024	-0.00023	-0.00022
	(A0 * A1 * !B1 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * Y)	0.00004	0.00004	0.00005
	(A0 * A1 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C1 * Y)	-0.00024	-0.00023	-0.00022
	(A0 * A1 * !B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * C1 * Y)	0.00004	0.00004	0.00004
	(A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00024	-0.00023	-0.00022
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	0.00016	0.00016	0.00016
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	-0.00002	-0.00001	-0.00001
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	-0.00021	-0.00020	-0.00020
	(!A1 * B1 * C0 * C1 * Y)	0.00012	0.00012	0.00012
	(!A1 * B1 * C0 * C1 * Y)	0.00002	0.00002	0.00002
	(!A1 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B1 * C0 * C1 * Y)	-0.00025	-0.00025	-0.00024
	(!A1 * !B1 * !C1 * !Y)	0.00019	0.00019	0.00020
	(!A1 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C1 * !Y)	-0.00018	-0.00017	-0.00016
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00019	0.00019	0.00020
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00018	-0.00017	-0.00016
	(!A0 * A1 * B1 * C0 * C1 * Y)	0.00012	0.00012	0.00012
	(!A0 * A1 * B1 * C0 * C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	0.00001
	(!A0 * A1 * B1 * C0 * C1 * Y)	-0.00025	-0.00025	-0.00025
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00019	0.00019	0.00020
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00018	-0.00017	-0.00016
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00019	0.00019	0.00020
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00018	-0.00017	-0.00016

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X2H7H	**(A0 * A1 * B0 * C0 * C1 * Y)**	-0.00000	-0.00000	0.00000
	(A0 * A1 * B0 * C0 * C1 * Y)	-0.00006	-0.00006	-0.00006
	(A0 * A1 * B0 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * C1 * Y)	0.00024	0.00024	0.00024
	(A0 * A1 * B0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * !C1 * Y)	-0.00005	-0.00005	-0.00004
	(A0 * A1 * B0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C1 * Y)	0.00024	0.00024	0.00024
	(A0 * A1 * B0 * !C0 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * C1 * Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * B0 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * C1 * Y)	0.00023	0.00024	0.00024
	(A0 * A1 * !B0 * C0 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * C0 * C1 * Y)	-0.00006	-0.00006	-0.00006
	(A0 * A1 * !B0 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * C0 * C1 * Y)	0.00021	0.00021	0.00021
	(A0 * A1 * !B0 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C1 * Y)	-0.00005	-0.00004	-0.00004
	(A0 * A1 * !B0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * !C1 * Y)	0.00021	0.00021	0.00021
	(A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00005	-0.00004	-0.00004
	(A0 * A1 * !B0 * !C0 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * !C0 * C1 * Y)	0.00021	0.00021	0.00021
	(!A1 * B0 * C0 * C1 * Y)	-0.00015	-0.00013	-0.00011
	(!A1 * B0 * C0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * C0 * C1 * Y)	0.00022	0.00022	0.00023
	(!A1 * !B0 * C0 * C1 * Y)	-0.00018	-0.00018	-0.00018
	(!A1 * !B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * C1 * Y)	0.00018	0.00018	0.00018
	(!A1 * !B0 * !C1 * !Y)	-0.00026	-0.00026	-0.00026
	(!A1 * !B0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !C1 * !Y)	0.00002	0.00003	0.00003
	(!A1 * !B0 * !C1 * !Y)	0.00004	0.00004	0.00004
	(!A1 * !B0 * !C0 * C1 * !Y)	-0.00026	-0.00026	-0.00026
	(!A1 * !B0 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !C0 * C1 * !Y)	0.00002	0.00003	0.00003
	(!A1 * !B0 * !C0 * C1 * !Y)	0.00004	0.00004	0.00004
	(!A0 * A1 * B0 * C0 * C1 * Y)	-0.00015	-0.00013	-0.00011
	(!A0 * A1 * B0 * C0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * B0 * C0 * C1 * Y)	-0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * C0 * C1 * Y)	0.00022	0.00022	0.00023
	(!A0 * A1 * !B0 * C0 * C1 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * A1 * !B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * C0 * C1 * Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * !B0 * C0 * C1 * Y)	0.00018	0.00018	0.00018
	(!A0 * A1 * !B0 * !C1 * !Y)	-0.00026	-0.00026	-0.00025
	(!A0 * A1 * !B0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B0 * !C1 * !Y)	0.00002	0.00003	0.00003
	(!A0 * A1 * !B0 * !C1 * !Y)	0.00004	0.00004	0.00004
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00026	-0.00026	-0.00025
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00001	-0.00001	0.00000
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00002	0.00003	0.00003
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00004	0.00004	0.00004

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X2H7H	**(A0 * A1 * B0 * C0 * C1 * Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * C1 * Y)	0.00006	0.00006	0.00006
	(A0 * A1 * B0 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * C0 * C1 * Y)	-0.00024	-0.00024	-0.00024
	(A0 * A1 * B0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C1 * Y)	0.00005	0.00005	0.00005
	(A0 * A1 * B0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * !C1 * Y)	-0.00024	-0.00024	-0.00023
	(A0 * A1 * B0 * !C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B0 * !C0 * C1 * Y)	0.00005	0.00005	0.00006
	(A0 * A1 * B0 * !C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * !C0 * C1 * Y)	-0.00024	-0.00024	-0.00023
	(A0 * A1 * !B0 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * C0 * C1 * Y)	0.00006	0.00006	0.00006
	(A0 * A1 * !B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * C0 * C1 * Y)	-0.00021	-0.00020	-0.00019
	(A0 * A1 * !B0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C1 * Y)	0.00004	0.00004	0.00005
	(A0 * A1 * !B0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * !C1 * Y)	-0.00021	-0.00020	-0.00019
	(A0 * A1 * !B0 * !C0 * C1 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * !B0 * !C0 * C1 * Y)	0.00004	0.00004	0.00005
	(A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00021	-0.00020	-0.00019
	(!A1 * B0 * C0 * C1 * Y)	0.00014	0.00014	0.00015
	(!A1 * B0 * C0 * C1 * Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * C0 * C1 * Y)	-0.00022	-0.00022	-0.00021
	(!A1 * !B0 * C0 * C1 * Y)	0.00018	0.00018	0.00018
	(!A1 * !B0 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * C1 * Y)	-0.00018	-0.00017	-0.00016
	(!A1 * !B0 * !C1 * !Y)	0.00026	0.00026	0.00026
	(!A1 * !B0 * !C1 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * !C1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A1 * !B0 * !C1 * !Y)	-0.00004	-0.00004	-0.00004
	(!A1 * !B0 * !C0 * C1 * !Y)	0.00026	0.00026	0.00026
	(!A1 * !B0 * !C0 * C1 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * !C0 * C1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A1 * !B0 * !C0 * C1 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A1 * B0 * C0 * C1 * Y)	0.00015	0.00015	0.00015
	(!A0 * A1 * B0 * C0 * C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * B0 * C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * B0 * C0 * C1 * Y)	-0.00022	-0.00022	-0.00022
	(!A0 * A1 * !B0 * C0 * C1 * Y)	0.00018	0.00018	0.00018
	(!A0 * A1 * !B0 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * C0 * C1 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * A1 * !B0 * C0 * C1 * Y)	-0.00018	-0.00017	-0.00016
	(!A0 * A1 * !B0 * !C1 * !Y)	0.00026	0.00026	0.00026
	(!A0 * A1 * !B0 * !C1 * !Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * !B0 * !C1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * A1 * !B0 * !C1 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00026	0.00026	0.00026
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00004	-0.00004	-0.00004

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X2H7H	**(A1 * B0 * B1 * C1 * Y)**	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C1 * Y)	0.00031	0.00031	0.00031
	(A1 * B0 * B1 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !C1 * Y)	0.00029	0.00029	0.00029
	(A0 * A1 * !B1 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B1 * C1 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * A1 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C1 * Y)	0.00031	0.00031	0.00031
	(A0 * A1 * !B1 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !C1 * Y)	0.00028	0.00029	0.00029
	(A0 * A1 * !B0 * B1 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B0 * B1 * C1 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B0 * B1 * C1 * Y)	0.00031	0.00031	0.00031
	(A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * A1 * !B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00002
	(A0 * A1 * !B0 * B1 * !C1 * Y)	0.00028	0.00029	0.00029
	(!A1 * B0 * B1 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * C1 * Y)	-0.00003	-0.00003	-0.00002
	(!A1 * B0 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * C1 * Y)	0.00031	0.00031	0.00031
	(!A1 * B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * !C1 * Y)	-0.00003	-0.00003	-0.00002
	(!A1 * B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C1 * Y)	0.00028	0.00029	0.00029
	(!A1 * !B1 * !C1 * !Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C1 * !Y)	0.00017	0.00018	0.00018
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00017	0.00018	0.00018
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00019	-0.00019	-0.00019
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00018	0.00018	0.00018
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00019	-0.00019	-0.00019
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00017	0.00018	0.00018

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X2H7H	**(A1 * B0 * B1 * C1 * Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C1 * Y)	0.00003	0.00003	0.00004
	(A1 * B0 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * C1 * Y)	-0.00031	-0.00031	-0.00031
	(A1 * B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C1 * Y)	0.00003	0.00003	0.00003
	(A1 * B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !C1 * Y)	-0.00029	-0.00028	-0.00027
	(A0 * A1 * !B1 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C1 * Y)	0.00003	0.00003	0.00004
	(A0 * A1 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B1 * C1 * Y)	-0.00031	-0.00031	-0.00030
	(A0 * A1 * !B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C1 * Y)	-0.00029	-0.00028	-0.00027
	(A0 * A1 * !B0 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C1 * Y)	0.00003	0.00003	0.00004
	(A0 * A1 * !B0 * B1 * C1 * Y)	-0.00001	-0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C1 * Y)	-0.00031	-0.00031	-0.00030
	(A0 * A1 * !B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C1 * Y)	0.00002	0.00003	0.00003
	(A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00029	-0.00028	-0.00027
	(!A1 * B0 * B1 * C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * B1 * C1 * Y)	0.00002	0.00003	0.00003
	(!A1 * B0 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * C1 * Y)	-0.00031	-0.00031	-0.00030
	(!A1 * B0 * B1 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * B1 * !C1 * Y)	0.00002	0.00003	0.00003
	(!A1 * B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !C1 * Y)	-0.00029	-0.00028	-0.00027
	(!A1 * !B1 * !C1 * !Y)	0.00019	0.00019	0.00020
	(!A1 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C1 * !Y)	-0.00018	-0.00017	-0.00015
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00019	0.00019	0.00020
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00018	-0.00017	-0.00016
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00019	0.00019	0.00020
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00018	-0.00017	-0.00016
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00019	0.00019	0.00020
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00018	-0.00017	-0.00016

Passive power(pJ) for C1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X2H7H	**(A1 * B0 * B1 * C0 * Y)**	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * C0 * Y)	-0.00003	-0.00003	-0.00002
	(A1 * B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C0 * Y)	0.00035	0.00035	0.00035
	(A1 * B0 * B1 * !C0 * Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C0 * Y)	-0.00003	-0.00003	-0.00002
	(A1 * B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !C0 * Y)	0.00032	0.00032	0.00032
	(A0 * A1 * !B1 * C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * A1 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * Y)	0.00035	0.00035	0.00035
	(A0 * A1 * !B1 * !C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * A1 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !C0 * Y)	0.00032	0.00032	0.00032
	(A0 * A1 * !B0 * B1 * C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C0 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * A1 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C0 * Y)	0.00035	0.00035	0.00035
	(A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00003	-0.00002	-0.00002
	(A0 * A1 * !B0 * B1 * !C0 * Y)	0.00001	0.00002	0.00002
	(A0 * A1 * !B0 * B1 * !C0 * Y)	0.00032	0.00032	0.00032
	(!A1 * B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * C0 * Y)	0.00035	0.00035	0.00035
	(!A1 * B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C0 * Y)	0.00032	0.00032	0.00032
	(!A1 * !B1 * !C0 * !Y)	-0.00029	-0.00028	-0.00028
	(!A1 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C0 * !Y)	0.00003	0.00003	0.00003
	(!A1 * !B1 * !C0 * !Y)	0.00004	0.00004	0.00004
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00029	-0.00028	-0.00028
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00004	0.00004	0.00004
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00029	-0.00028	-0.00028
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00004	0.00004	0.00004
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00029	-0.00028	-0.00028
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00004	0.00004	0.00004

Passive power(pJ) for C1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X2H7H	**(A1 * B0 * B1 * C0 * Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C0 * Y)	0.00003	0.00003	0.00003
	(A1 * B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * C0 * Y)	-0.00035	-0.00035	-0.00035
	(A1 * B0 * B1 * !C0 * Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C0 * Y)	0.00003	0.00003	0.00003
	(A1 * B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !C0 * Y)	-0.00032	-0.00031	-0.00030
	(A0 * A1 * !B1 * C0 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * !B1 * C0 * Y)	0.00002	0.00003	0.00003
	(A0 * A1 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B1 * C0 * Y)	-0.00035	-0.00035	-0.00034
	(A0 * A1 * !B1 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * Y)	0.00003	0.00003	0.00004
	(A0 * A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C0 * Y)	-0.00032	-0.00031	-0.00030
	(A0 * A1 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C0 * Y)	0.00002	0.00003	0.00003
	(A0 * A1 * !B0 * B1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C0 * Y)	-0.00035	-0.00034	-0.00034
	(A0 * A1 * !B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * !B0 * B1 * !C0 * Y)	0.00002	0.00002	0.00003
	(A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00032	-0.00031	-0.00030
	(!A1 * B0 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * C0 * Y)	0.00002	0.00002	0.00003
	(!A1 * B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * C0 * Y)	-0.00035	-0.00035	-0.00035
	(!A1 * B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !C0 * Y)	-0.00032	-0.00031	-0.00030
	(!A1 * !B1 * !C0 * !Y)	0.00028	0.00028	0.00029
	(!A1 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A1 * !B1 * !C0 * !Y)	-0.00004	-0.00004	-0.00003
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00028	0.00028	0.00029
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00004	-0.00004	-0.00003
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00028	0.00028	0.00029
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00004	-0.00004	-0.00003
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00028	0.00028	0.00029
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00004	-0.00004	-0.00003

AO222X3H7H

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

Cell Description

AO

Y=(A0 & A1)(B0 & B1)(C0 & C1)

Truth Table

INPUT						OUTPUT
A0	A1	B0	B1	C0	C1	Y
0	x	0	x	0	x	0
0	x	0	x	1	0	0
0	x	x	x	1	1	1
0	x	1	0	0	x	0
0	x	1	0	1	0	0
x	x	1	1	x	x	1
1	0	0	x	0	x	0
1	0	0	x	1	0	0
1	0	x	x	1	1	1
1	0	1	0	0	x	0
1	0	1	0	1	0	0
1	1	x	x	x	x	1

Footprint

Cell Name	Area
AO222X3H7H	3.64000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	A1	B0	B1	C0	C1	Y
AO222X3H7H	0.00096	0.00097	0.00091	0.00091	0.00093	0.00103	0.08643

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO222X3H7H	0.00000	0.03828	0.04263

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO222X3H7H	A0->Y (RR)	0.10938	0.30529	0.77718
	A1->Y (RR)	0.10590	0.30118	0.77087
	B0->Y (RR)	0.10132	0.29496	0.76089
	B1->Y (RR)	0.09812	0.29089	0.75386
	C0->Y (RR)	0.09145	0.28223	0.74009
	C1->Y (RR)	0.09040	0.27994	0.73500

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO222X3H7H	A0->Y (FF)	0.22484	0.40061	0.79764
	A1->Y (FF)	0.21354	0.38766	0.78158
	B0->Y (FF)	0.21209	0.38943	0.79827
	B1->Y (FF)	0.20153	0.37723	0.78204
	C0->Y (FF)	0.18441	0.35594	0.75463
	C1->Y (FF)	0.17836	0.34762	0.74214

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO222X3H7H	A0	0.00094	0.00104	0.00115
	A0	0.00022	0.00023	0.00023
	A0	-0.00008	-0.00008	-0.00008
	A0	0.00328	0.00339	0.00350
	A1	0.00094	0.00104	0.00115
	A1	0.00022	0.00022	0.00023
	A1	-0.00003	-0.00003	0.00001
	A1	0.00305	0.00315	0.00327
	B0	0.00096	0.00107	0.00117
	B0	0.00011	0.00011	0.00013
	B0	-0.00008	-0.00008	-0.00005
	B0	0.00296	0.00306	0.00317
	B1	0.00094	0.00104	0.00115
	B1	0.00005	0.00010	0.00013
	B1	-0.00003	-0.00003	-0.00001
	B1	0.00272	0.00282	0.00293
	C0	0.00099	0.00110	0.00120
	C0	0.00000	0.00000	0.00002
	C0	-0.00008	-0.00008	-0.00008
	C0	0.00267	0.00277	0.00287
	C1	0.00098	0.00109	0.00121
	C1	0.00000	0.00000	0.00004
	C1	-0.00003	-0.00003	-0.00002
	C1	0.00249	0.00260	0.00272

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO222X3H7H	A0	0.00364	0.00373	0.00383
	A0	-0.00021	-0.00021	-0.00020
	A0	0.00017	0.00018	0.00018
	A0	0.00120	0.00130	0.00141
	A1	0.00346	0.00356	0.00367
	A1	-0.00021	-0.00021	-0.00018
	A1	0.00012	0.00013	0.00014
	A1	0.00122	0.00133	0.00144
	B0	0.00319	0.00327	0.00337
	B0	-0.00012	-0.00011	-0.00009
	B0	0.00017	0.00018	0.00018
	B0	0.00121	0.00130	0.00140
	B1	0.00305	0.00314	0.00324
	B1	-0.00013	-0.00010	-0.00005
	B1	0.00013	0.00013	0.00014
	B1	0.00124	0.00134	0.00144
	C0	0.00268	0.00277	0.00288
	C0	-0.00000	-0.00000	0.00002
	C0	0.00017	0.00018	0.00018
	C0	0.00111	0.00120	0.00131
	C1	0.00255	0.00265	0.00278
	C1	-0.00000	-0.00000	0.00003
	C1	0.00013	0.00013	0.00013
	C1	0.00111	0.00120	0.00133

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X3H7H	**(A1 * B0 * B1 * C0 * C1 * Y)**	-0.00013	-0.00011	-0.00007
	(A1 * B0 * B1 * C0 * C1 * Y)	-0.00004	-0.00003	-0.00003
	(A1 * B0 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * B1 * C0 * C1 * Y)	0.00031	0.00031	0.00031
	(A1 * B0 * B1 * !C1 * Y)	-0.00013	-0.00011	-0.00008
	(A1 * B0 * B1 * !C1 * Y)	-0.00004	-0.00003	-0.00002
	(A1 * B0 * B1 * !C1 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * B1 * !C1 * Y)	0.00031	0.00031	0.00031
	(A1 * B0 * B1 * !C0 * C1 * Y)	-0.00013	-0.00011	-0.00008
	(A1 * B0 * B1 * !C0 * C1 * Y)	-0.00004	-0.00003	-0.00003
	(A1 * B0 * B1 * !C0 * C1 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * B1 * !C0 * C1 * Y)	0.00031	0.00031	0.00031
	(A1 * !B1 * C0 * C1 * Y)	-0.00012	-0.00010	-0.00008
	(A1 * !B1 * C0 * C1 * Y)	-0.00004	-0.00003	-0.00003
	(A1 * !B1 * C0 * C1 * Y)	0.00000	0.00001	0.00001
	(A1 * !B1 * C0 * C1 * Y)	0.00031	0.00032	0.00032
	(A1 * !B0 * B1 * C0 * C1 * Y)	-0.00012	-0.00010	-0.00008
	(A1 * !B0 * B1 * C0 * C1 * Y)	-0.00004	-0.00003	-0.00003
	(A1 * !B0 * B1 * C0 * C1 * Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * B1 * C0 * C1 * Y)	0.00031	0.00032	0.00032
	(!A1 * B0 * B1 * Y)	-0.00018	-0.00018	-0.00018
	(!A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * B1 * Y)	0.00027	0.00027	0.00028
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	-0.00018	-0.00018	-0.00018
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	0.00027	0.00027	0.00027
	(!A1 * !B1 * !C1 * !Y)	-0.00024	-0.00024	-0.00024
	(!A1 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C1 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B1 * !C1 * !Y)	0.00021	0.00021	0.00022
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00024	-0.00024	-0.00024
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00021	0.00021	0.00022
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00024	-0.00024	-0.00024
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	0.00000
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00021	0.00021	0.00022
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	-0.00024	-0.00024	-0.00024
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	0.00000
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	0.00021	0.00021	0.00022

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X3H7H	**(A1 * B0 * B1 * C0 * C1 * Y)**	0.00012	0.00012	0.00013
	(A1 * B0 * B1 * C0 * C1 * Y)	0.00003	0.00003	0.00004
	(A1 * B0 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * C0 * C1 * Y)	-0.00031	-0.00031	-0.00030
	(A1 * B0 * B1 * !C1 * Y)	0.00012	0.00013	0.00013
	(A1 * B0 * B1 * !C1 * Y)	0.00002	0.00003	0.00004
	(A1 * B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * B1 * !C1 * Y)	-0.00031	-0.00031	-0.00030
	(A1 * B0 * B1 * !C0 * C1 * Y)	0.00012	0.00013	0.00013
	(A1 * B0 * B1 * !C0 * C1 * Y)	0.00003	0.00003	0.00004
	(A1 * B0 * B1 * !C0 * C1 * Y)	-0.00001	-0.00000	0.00000
	(A1 * B0 * B1 * !C0 * C1 * Y)	-0.00031	-0.00031	-0.00031
	(A1 * !B1 * C0 * C1 * Y)	0.00011	0.00012	0.00012
	(A1 * !B1 * C0 * C1 * Y)	0.00003	0.00003	0.00004
	(A1 * !B1 * C0 * C1 * Y)	-0.00000	-0.00001	-0.00000
	(A1 * !B1 * C0 * C1 * Y)	-0.00031	-0.00031	-0.00031
	(A1 * !B0 * B1 * C0 * C1 * Y)	0.00012	0.00012	0.00012
	(A1 * !B0 * B1 * C0 * C1 * Y)	0.00003	0.00003	0.00004
	(A1 * !B0 * B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * B1 * C0 * C1 * Y)	-0.00031	-0.00031	-0.00031
	(!A1 * B0 * B1 * Y)	0.00018	0.00018	0.00019
	(!A1 * B0 * B1 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * B1 * Y)	-0.00027	-0.00027	-0.00025
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	0.00018	0.00018	0.00018
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	-0.00027	-0.00027	-0.00026
	(!A1 * !B1 * !C1 * !Y)	0.00024	0.00024	0.00025
	(!A1 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B1 * !C1 * !Y)	-0.00021	-0.00020	-0.00020
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00024	0.00024	0.00025
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00021	-0.00020	-0.00020
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00024	0.00024	0.00025
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00021	-0.00020	-0.00020
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	0.00024	0.00024	0.00025
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	-0.00021	-0.00020	-0.00020

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X3H7H	**(A0 * B0 * B1 * C0 * C1 * Y)**	-0.00012	-0.00010	-0.00008
	(A0 * B0 * B1 * C0 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * B1 * C0 * C1 * Y)	0.00000	0.00001	0.00001
	(A0 * B0 * B1 * C0 * C1 * Y)	0.00029	0.00029	0.00029
	(A0 * B0 * B1 * !C1 * Y)	-0.00012	-0.00010	-0.00007
	(A0 * B0 * B1 * !C1 * Y)	-0.00004	-0.00003	-0.00003
	(A0 * B0 * B1 * !C1 * Y)	0.00000	0.00001	0.00001
	(A0 * B0 * B1 * !C1 * Y)	0.00029	0.00029	0.00029
	(A0 * B0 * B1 * !C0 * C1 * Y)	-0.00012	-0.00010	-0.00008
	(A0 * B0 * B1 * !C0 * C1 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * B0 * B1 * !C0 * C1 * Y)	0.00000	0.00001	0.00001
	(A0 * B0 * B1 * !C0 * C1 * Y)	0.00029	0.00029	0.00029
	(A0 * !B1 * C0 * C1 * Y)	-0.00011	-0.00010	-0.00008
	(A0 * !B1 * C0 * C1 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * !B1 * C0 * C1 * Y)	0.00000	0.00001	0.00001
	(A0 * !B1 * C0 * C1 * Y)	0.00029	0.00030	0.00030
	(A0 * !B0 * B1 * C0 * C1 * Y)	-0.00011	-0.00010	-0.00008
	(A0 * !B0 * B1 * C0 * C1 * Y)	-0.00004	-0.00003	-0.00003
	(A0 * !B0 * B1 * C0 * C1 * Y)	-0.00000	0.00000	0.00001
	(A0 * !B0 * B1 * C0 * C1 * Y)	0.00029	0.00030	0.00030
	(!A0 * B0 * B1 * C0 * C1 * Y)	-0.00017	-0.00017	-0.00016
	(!A0 * B0 * B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * C0 * C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * B0 * B1 * C0 * C1 * Y)	0.00025	0.00025	0.00025
	(!A0 * B0 * B1 * !C1 * Y)	-0.00017	-0.00017	-0.00016
	(!A0 * B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * B1 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * B0 * B1 * !C1 * Y)	0.00025	0.00025	0.00025
	(!A0 * B0 * B1 * !C0 * C1 * Y)	-0.00017	-0.00017	-0.00017
	(!A0 * B0 * B1 * !C0 * C1 * Y)	-0.00001	-0.00001	0.00000
	(!A0 * B0 * B1 * !C0 * C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * B0 * B1 * !C0 * C1 * Y)	0.00025	0.00025	0.00025
	(!A0 * !B1 * C0 * C1 * Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B1 * C0 * C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B1 * C0 * C1 * Y)	0.00025	0.00025	0.00025
	(!A0 * !B1 * !C1 * !Y)	-0.00029	-0.00029	-0.00028
	(!A0 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * !C1 * !Y)	0.00002	0.00003	0.00004
	(!A0 * !B1 * !C1 * !Y)	0.00005	0.00005	0.00005
	(!A0 * !B1 * !C0 * C1 * !Y)	-0.00029	-0.00029	-0.00028
	(!A0 * !B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * !C0 * C1 * !Y)	0.00002	0.00003	0.00004
	(!A0 * !B1 * !C0 * C1 * !Y)	0.00005	0.00005	0.00005
	(!A0 * !B0 * B1 * C0 * C1 * Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !B0 * B1 * C0 * C1 * Y)	-0.00001	-0.00001	0.00000
	(!A0 * !B0 * B1 * C0 * C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * B1 * C0 * C1 * Y)	0.00025	0.00025	0.00025
	(!A0 * !B0 * B1 * !C1 * !Y)	-0.00029	-0.00029	-0.00028
	(!A0 * !B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * B1 * !C1 * !Y)	0.00002	0.00003	0.00004
	(!A0 * !B0 * B1 * !C1 * !Y)	0.00005	0.00005	0.00005
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	-0.00029	-0.00029	-0.00028
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	0.00002	0.00003	0.00004
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	0.00005	0.00005	0.00005

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X3H7H	**(A0 * B0 * B1 * C0 * C1 * Y)**	0.00012	0.00012	0.00012
	(A0 * B0 * B1 * C0 * C1 * Y)	0.00003	0.00003	0.00003
	(A0 * B0 * B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * B1 * C0 * C1 * Y)	-0.00029	-0.00029	-0.00029
	(A0 * B0 * B1 * !C1 * Y)	0.00011	0.00012	0.00012
	(A0 * B0 * B1 * !C1 * Y)	0.00003	0.00003	0.00004
	(A0 * B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * B1 * !C1 * Y)	-0.00029	-0.00029	-0.00028
	(A0 * B0 * B1 * !C0 * C1 * Y)	0.00012	0.00012	0.00013
	(A0 * B0 * B1 * !C0 * C1 * Y)	0.00002	0.00003	0.00003
	(A0 * B0 * B1 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * B1 * !C0 * C1 * Y)	-0.00029	-0.00029	-0.00029
	(A0 * !B1 * C0 * C1 * Y)	0.00011	0.00012	0.00012
	(A0 * !B1 * C0 * C1 * Y)	0.00002	0.00003	0.00003
	(A0 * !B1 * C0 * C1 * Y)	-0.00000	-0.00001	-0.00000
	(A0 * !B1 * C0 * C1 * Y)	-0.00030	-0.00029	-0.00029
	(A0 * !B0 * B1 * C0 * C1 * Y)	0.00011	0.00012	0.00012
	(A0 * !B0 * B1 * C0 * C1 * Y)	0.00003	0.00003	0.00004
	(A0 * !B0 * B1 * C0 * C1 * Y)	-0.00001	-0.00000	0.00000
	(A0 * !B0 * B1 * C0 * C1 * Y)	-0.00029	-0.00029	-0.00029
	(!A0 * B0 * B1 * C0 * C1 * Y)	0.00017	0.00017	0.00017
	(!A0 * B0 * B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * C0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * B0 * B1 * C0 * C1 * Y)	-0.00025	-0.00024	-0.00023
	(!A0 * B0 * B1 * !C1 * Y)	0.00016	0.00017	0.00017
	(!A0 * B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00002
	(!A0 * B0 * B1 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * B0 * B1 * !C1 * Y)	-0.00025	-0.00024	-0.00023
	(!A0 * B0 * B1 * !C0 * C1 * Y)	0.00017	0.00017	0.00018
	(!A0 * B0 * B1 * !C0 * C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * B1 * !C0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * B0 * B1 * !C0 * C1 * Y)	-0.00025	-0.00024	-0.00023
	(!A0 * !B1 * C0 * C1 * Y)	0.00017	0.00017	0.00017
	(!A0 * !B1 * C0 * C1 * Y)	0.00001	0.00001	0.00002
	(!A0 * !B1 * C0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B1 * C0 * C1 * Y)	-0.00025	-0.00024	-0.00022
	(!A0 * !B1 * !C1 * !Y)	0.00029	0.00029	0.00029
	(!A0 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * !C1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !B1 * !C1 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !B1 * !C0 * C1 * !Y)	0.00029	0.00029	0.00029
	(!A0 * !B1 * !C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * !C0 * C1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !B1 * !C0 * C1 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !B0 * B1 * C0 * C1 * Y)	0.00017	0.00017	0.00018
	(!A0 * !B0 * B1 * C0 * C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * B1 * C0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * B1 * C0 * C1 * Y)	-0.00025	-0.00024	-0.00023
	(!A0 * !B0 * B1 * !C1 * !Y)	0.00029	0.00029	0.00029
	(!A0 * !B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * B1 * !C1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !B0 * B1 * !C1 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	0.00029	0.00029	0.00029
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	-0.00005	-0.00005	-0.00005

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X3H7H	**(A0 * A1 * B1 * C0 * C1 * Y)**	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * C0 * C1 * Y)	-0.00007	-0.00007	-0.00006
	(A0 * A1 * B1 * C0 * C1 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B1 * C0 * C1 * Y)	0.00028	0.00029	0.00029
	(A0 * A1 * B1 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * !C1 * Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * B1 * !C1 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B1 * !C1 * Y)	0.00028	0.00028	0.00029
	(A0 * A1 * B1 * !C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * B1 * !C0 * C1 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B1 * !C0 * C1 * Y)	0.00028	0.00028	0.00029
	(A0 * A1 * !B1 * C0 * C1 * Y)	-0.00000	0.00000	0.00001
	(A0 * A1 * !B1 * C0 * C1 * Y)	-0.00007	-0.00006	-0.00006
	(A0 * A1 * !B1 * C0 * C1 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B1 * C0 * C1 * Y)	0.00025	0.00026	0.00026
	(A0 * A1 * !B1 * !C1 * Y)	-0.00000	0.00000	0.00001
	(A0 * A1 * !B1 * !C1 * Y)	-0.00006	-0.00005	-0.00005
	(A0 * A1 * !B1 * !C1 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B1 * !C1 * Y)	0.00025	0.00025	0.00025
	(A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * !B1 * !C0 * C1 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B1 * !C0 * C1 * Y)	0.00025	0.00026	0.00026
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	-0.00019	-0.00019	-0.00018
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	0.00022	0.00023	0.00023
	(!A1 * B1 * C0 * C1 * Y)	-0.00015	-0.00013	-0.00010
	(!A1 * B1 * C0 * C1 * Y)	-0.00003	-0.00002	-0.00002
	(!A1 * B1 * C0 * C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * B1 * C0 * C1 * Y)	0.00027	0.00027	0.00028
	(!A1 * !B1 * !C1 * !Y)	-0.00022	-0.00021	-0.00021
	(!A1 * !B1 * !C1 * !Y)	-0.00002	-0.00001	-0.00000
	(!A1 * !B1 * !C1 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B1 * !C1 * !Y)	0.00020	0.00020	0.00020
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00022	-0.00021	-0.00021
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00002	-0.00001	-0.00000
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00020	0.00020	0.00020
	(!A0 * A1 * B1 * C0 * C1 * Y)	-0.00015	-0.00013	-0.00010
	(!A0 * A1 * B1 * C0 * C1 * Y)	-0.00003	-0.00002	-0.00002
	(!A0 * A1 * B1 * C0 * C1 * Y)	-0.00000	0.00000	0.00001
	(!A0 * A1 * B1 * C0 * C1 * Y)	0.00027	0.00027	0.00028
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00022	-0.00021	-0.00021
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00002	-0.00001	-0.00000
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00020	0.00020	0.00021
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00022	-0.00021	-0.00021
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00002	-0.00001	-0.00000
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00020	0.00020	0.00020

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X3H7H	**(A0 * A1 * B1 * C0 * C1 * Y)**	0.00000	0.00000	0.00001
	(A0 * A1 * B1 * C0 * C1 * Y)	0.00006	0.00007	0.00007
	(A0 * A1 * B1 * C0 * C1 * Y)	-0.00001	-0.00000	-0.00000
	(A0 * A1 * B1 * C0 * C1 * Y)	-0.00029	-0.00029	-0.00028
	(A0 * A1 * B1 * !C1 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * B1 * !C1 * Y)	0.00005	0.00006	0.00006
	(A0 * A1 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * B1 * !C1 * Y)	-0.00029	-0.00028	-0.00028
	(A0 * A1 * B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * Y)	0.00005	0.00006	0.00006
	(A0 * A1 * B1 * !C0 * C1 * Y)	-0.00001	-0.00000	-0.00000
	(A0 * A1 * B1 * !C0 * C1 * Y)	-0.00029	-0.00028	-0.00028
	(A0 * A1 * !B1 * C0 * C1 * Y)	-0.00000	0.00000	0.00001
	(A0 * A1 * !B1 * C0 * C1 * Y)	0.00006	0.00006	0.00007
	(A0 * A1 * !B1 * C0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B1 * C0 * C1 * Y)	-0.00026	-0.00025	-0.00024
	(A0 * A1 * !B1 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * Y)	0.00005	0.00005	0.00006
	(A0 * A1 * !B1 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B1 * !C1 * Y)	-0.00025	-0.00025	-0.00023
	(A0 * A1 * !B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * C1 * Y)	0.00005	0.00005	0.00005
	(A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00025	-0.00025	-0.00023
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	0.00018	0.00019	0.00019
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	-0.00023	-0.00022	-0.00021
	(!A1 * B1 * C0 * C1 * Y)	0.00015	0.00015	0.00015
	(!A1 * B1 * C0 * C1 * Y)	0.00002	0.00002	0.00003
	(!A1 * B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B1 * C0 * C1 * Y)	-0.00027	-0.00027	-0.00027
	(!A1 * !B1 * !C1 * !Y)	0.00022	0.00022	0.00023
	(!A1 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B1 * !C1 * !Y)	-0.00020	-0.00019	-0.00018
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00022	0.00022	0.00023
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00020	-0.00019	-0.00018
	(!A0 * A1 * B1 * C0 * C1 * Y)	0.00015	0.00015	0.00015
	(!A0 * A1 * B1 * C0 * C1 * Y)	0.00002	0.00002	0.00003
	(!A0 * A1 * B1 * C0 * C1 * Y)	-0.00001	-0.00000	0.00000
	(!A0 * A1 * B1 * C0 * C1 * Y)	-0.00027	-0.00027	-0.00027
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00022	0.00022	0.00023
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00020	-0.00019	-0.00018
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00022	0.00022	0.00023
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00020	-0.00019	-0.00018

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X3H7H	**(A0 * A1 * B0 * C0 * C1 * Y)**	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * C0 * C1 * Y)	-0.00008	-0.00007	-0.00007
	(A0 * A1 * B0 * C0 * C1 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B0 * C0 * C1 * Y)	0.00025	0.00025	0.00025
	(A0 * A1 * B0 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B0 * !C1 * Y)	-0.00006	-0.00006	-0.00005
	(A0 * A1 * B0 * !C1 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B0 * !C1 * Y)	0.00025	0.00025	0.00025
	(A0 * A1 * B0 * !C0 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * C1 * Y)	-0.00006	-0.00006	-0.00005
	(A0 * A1 * B0 * !C0 * C1 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B0 * !C0 * C1 * Y)	0.00024	0.00025	0.00025
	(A0 * A1 * !B0 * C0 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * C0 * C1 * Y)	-0.00007	-0.00007	-0.00007
	(A0 * A1 * !B0 * C0 * C1 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * C0 * C1 * Y)	0.00022	0.00022	0.00022
	(A0 * A1 * !B0 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C1 * Y)	-0.00006	-0.00006	-0.00005
	(A0 * A1 * !B0 * !C1 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * !C1 * Y)	0.00022	0.00022	0.00022
	(A0 * A1 * !B0 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00006	-0.00006	-0.00006
	(A0 * A1 * !B0 * !C0 * C1 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * !C0 * C1 * Y)	0.00022	0.00022	0.00022
	(!A1 * B0 * C0 * C1 * Y)	-0.00017	-0.00015	-0.00012
	(!A1 * B0 * C0 * C1 * Y)	-0.00003	-0.00002	-0.00001
	(!A1 * B0 * C0 * C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * C0 * C1 * Y)	0.00023	0.00023	0.00024
	(!A1 * !B0 * C0 * C1 * Y)	-0.00021	-0.00021	-0.00021
	(!A1 * !B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * C0 * C1 * Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * C0 * C1 * Y)	0.00018	0.00019	0.00019
	(!A1 * !B0 * !C1 * !Y)	-0.00029	-0.00029	-0.00029
	(!A1 * !B0 * !C1 * !Y)	-0.00001	-0.00001	0.00000
	(!A1 * !B0 * !C1 * !Y)	0.00003	0.00003	0.00004
	(!A1 * !B0 * !C1 * !Y)	0.00003	0.00003	0.00004
	(!A1 * !B0 * !C0 * C1 * !Y)	-0.00029	-0.00029	-0.00029
	(!A1 * !B0 * !C0 * C1 * !Y)	-0.00001	-0.00001	0.00000
	(!A1 * !B0 * !C0 * C1 * !Y)	0.00003	0.00003	0.00004
	(!A1 * !B0 * !C0 * C1 * !Y)	0.00003	0.00003	0.00004
	(!A0 * A1 * B0 * C0 * C1 * Y)	-0.00017	-0.00015	-0.00013
	(!A0 * A1 * B0 * C0 * C1 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * A1 * B0 * C0 * C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * B0 * C0 * C1 * Y)	0.00023	0.00023	0.00024
	(!A0 * A1 * !B0 * C0 * C1 * Y)	-0.00021	-0.00021	-0.00021
	(!A0 * A1 * !B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * C0 * C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B0 * C0 * C1 * Y)	0.00018	0.00019	0.00019
	(!A0 * A1 * !B0 * !C1 * !Y)	-0.00029	-0.00029	-0.00029
	(!A0 * A1 * !B0 * !C1 * !Y)	-0.00001	-0.00001	0.00000
	(!A0 * A1 * !B0 * !C1 * !Y)	0.00003	0.00003	0.00004
	(!A0 * A1 * !B0 * !C1 * !Y)	0.00003	0.00003	0.00004
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00029	-0.00029	-0.00029
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00001	-0.00001	0.00000
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00003	0.00003	0.00004
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00003	0.00003	0.00004

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X3H7H	**(A0 * A1 * B0 * C0 * C1 * Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * C1 * Y)	0.00007	0.00007	0.00008
	(A0 * A1 * B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * B0 * C0 * C1 * Y)	-0.00025	-0.00025	-0.00025
	(A0 * A1 * B0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C1 * Y)	0.00006	0.00006	0.00007
	(A0 * A1 * B0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * B0 * !C1 * Y)	-0.00025	-0.00025	-0.00024
	(A0 * A1 * B0 * !C0 * C1 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * B0 * !C0 * C1 * Y)	0.00005	0.00006	0.00006
	(A0 * A1 * B0 * !C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * !C0 * C1 * Y)	-0.00025	-0.00025	-0.00024
	(A0 * A1 * !B0 * C0 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * C0 * C1 * Y)	0.00007	0.00007	0.00007
	(A0 * A1 * !B0 * C0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * C0 * C1 * Y)	-0.00022	-0.00021	-0.00020
	(A0 * A1 * !B0 * !C1 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * !B0 * !C1 * Y)	0.00005	0.00006	0.00006
	(A0 * A1 * !B0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * !C1 * Y)	-0.00022	-0.00021	-0.00020
	(A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * C1 * Y)	0.00006	0.00006	0.00007
	(A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00022	-0.00021	-0.00019
	(!A1 * B0 * C0 * C1 * Y)	0.00017	0.00017	0.00018
	(!A1 * B0 * C0 * C1 * Y)	0.00001	0.00002	0.00003
	(!A1 * B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * C0 * C1 * Y)	-0.00023	-0.00023	-0.00023
	(!A1 * !B0 * C0 * C1 * Y)	0.00021	0.00021	0.00022
	(!A1 * !B0 * C0 * C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * C0 * C1 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * C0 * C1 * Y)	-0.00019	-0.00018	-0.00017
	(!A1 * !B0 * !C1 * !Y)	0.00029	0.00029	0.00029
	(!A1 * !B0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * !C1 * !Y)	-0.00004	-0.00003	-0.00003
	(!A1 * !B0 * !C0 * C1 * !Y)	0.00029	0.00029	0.00029
	(!A1 * !B0 * !C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C0 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * !C0 * C1 * !Y)	-0.00004	-0.00003	-0.00003
	(!A0 * A1 * B0 * C0 * C1 * Y)	0.00017	0.00017	0.00017
	(!A0 * A1 * B0 * C0 * C1 * Y)	0.00002	0.00003	0.00003
	(!A0 * A1 * B0 * C0 * C1 * Y)	-0.00001	-0.00000	-0.00000
	(!A0 * A1 * B0 * C0 * C1 * Y)	-0.00023	-0.00023	-0.00023
	(!A0 * A1 * !B0 * C0 * C1 * Y)	0.00021	0.00021	0.00021
	(!A0 * A1 * !B0 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * C0 * C1 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * !B0 * C0 * C1 * Y)	-0.00019	-0.00018	-0.00017
	(!A0 * A1 * !B0 * !C1 * !Y)	0.00029	0.00029	0.00029
	(!A0 * A1 * !B0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * !B0 * !C1 * !Y)	-0.00004	-0.00003	-0.00003
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00029	0.00029	0.00029
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00004	-0.00003	-0.00003

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X3H7H	**(A1 * B0 * B1 * C1 * Y)**	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * C1 * Y)	-0.00004	-0.00004	-0.00004
	(A1 * B0 * B1 * C1 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * B1 * C1 * Y)	0.00033	0.00034	0.00034
	(A1 * B0 * B1 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * !C1 * Y)	-0.00004	-0.00003	-0.00003
	(A1 * B0 * B1 * !C1 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * !C1 * Y)	0.00030	0.00031	0.00031
	(A0 * A1 * !B1 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B1 * C1 * Y)	-0.00004	-0.00003	-0.00003
	(A0 * A1 * !B1 * C1 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B1 * C1 * Y)	0.00034	0.00034	0.00034
	(A0 * A1 * !B1 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * Y)	-0.00004	-0.00003	-0.00003
	(A0 * A1 * !B1 * !C1 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B1 * !C1 * Y)	0.00030	0.00031	0.00031
	(A0 * A1 * !B0 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B0 * B1 * C1 * Y)	-0.00004	-0.00003	-0.00003
	(A0 * A1 * !B0 * B1 * C1 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B0 * B1 * C1 * Y)	0.00033	0.00034	0.00034
	(A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00004	-0.00003	-0.00003
	(A0 * A1 * !B0 * B1 * !C1 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * B1 * !C1 * Y)	0.00030	0.00031	0.00031
	(!A1 * B0 * B1 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * B0 * B1 * C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * B1 * C1 * Y)	0.00034	0.00034	0.00034
	(!A1 * B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * !C1 * Y)	-0.00004	-0.00003	-0.00003
	(!A1 * B0 * B1 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * B1 * !C1 * Y)	0.00030	0.00030	0.00031
	(!A1 * !B1 * !C1 * !Y)	-0.00022	-0.00021	-0.00021
	(!A1 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C1 * !Y)	0.00000	0.00002	0.00002
	(!A1 * !B1 * !C1 * !Y)	0.00019	0.00019	0.00020
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00022	-0.00021	-0.00021
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00019	0.00019	0.00019
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00022	-0.00021	-0.00021
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00019	0.00019	0.00019
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00022	-0.00021	-0.00021
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00019	0.00019	0.00019

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X3H7H	**(A1 * B0 * B1 * C1 * Y)**	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C1 * Y)	0.00004	0.00004	0.00005
	(A1 * B0 * B1 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * B1 * C1 * Y)	-0.00034	-0.00033	-0.00033
	(A1 * B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C1 * Y)	0.00003	0.00003	0.00004
	(A1 * B0 * B1 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * B1 * !C1 * Y)	-0.00031	-0.00030	-0.00028
	(A0 * A1 * !B1 * C1 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * !B1 * C1 * Y)	0.00003	0.00004	0.00004
	(A0 * A1 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B1 * C1 * Y)	-0.00033	-0.00033	-0.00033
	(A0 * A1 * !B1 * !C1 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * !B1 * !C1 * Y)	0.00003	0.00003	0.00004
	(A0 * A1 * !B1 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B1 * !C1 * Y)	-0.00031	-0.00030	-0.00028
	(A0 * A1 * !B0 * B1 * C1 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * !B0 * B1 * C1 * Y)	0.00003	0.00004	0.00004
	(A0 * A1 * !B0 * B1 * C1 * Y)	-0.00001	-0.00000	-0.00000
	(A0 * A1 * !B0 * B1 * C1 * Y)	-0.00033	-0.00033	-0.00033
	(A0 * A1 * !B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * !B0 * B1 * !C1 * Y)	0.00003	0.00003	0.00004
	(A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00031	-0.00030	-0.00029
	(!A1 * B0 * B1 * C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * B1 * C1 * Y)	0.00003	0.00004	0.00004
	(!A1 * B0 * B1 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * C1 * Y)	-0.00034	-0.00033	-0.00033
	(!A1 * B0 * B1 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * B1 * !C1 * Y)	0.00003	0.00003	0.00004
	(!A1 * B0 * B1 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * B1 * !C1 * Y)	-0.00031	-0.00030	-0.00028
	(!A1 * !B1 * !C1 * !Y)	0.00022	0.00022	0.00022
	(!A1 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00000
	(!A1 * !B1 * !C1 * !Y)	-0.00019	-0.00018	-0.00016
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00022	0.00022	0.00022
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00019	-0.00018	-0.00016
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00022	0.00022	0.00023
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00019	-0.00018	-0.00016
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00022	0.00022	0.00022
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00019	-0.00018	-0.00016

Passive power(pJ) for C1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X3H7H	**(A1 * B0 * B1 * C0 * Y)**	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * B1 * C0 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * B1 * C0 * Y)	0.00038	0.00038	0.00038
	(A1 * B0 * B1 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * !C0 * Y)	0.00035	0.00035	0.00035
	(A0 * A1 * !B1 * C0 * Y)	-0.00001	-0.00000	-0.00000
	(A0 * A1 * !B1 * C0 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * A1 * !B1 * C0 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B1 * C0 * Y)	0.00038	0.00038	0.00038
	(A0 * A1 * !B1 * !C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * A1 * !B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B1 * !C0 * Y)	0.00035	0.00035	0.00035
	(A0 * A1 * !B0 * B1 * C0 * Y)	-0.00000	0.00000	0.00001
	(A0 * A1 * !B0 * B1 * C0 * Y)	-0.00004	-0.00003	-0.00003
	(A0 * A1 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * !B0 * B1 * C0 * Y)	0.00038	0.00038	0.00038
	(A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00000	0.00000	0.00001
	(A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B0 * B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * B1 * !C0 * Y)	0.00034	0.00035	0.00035
	(!A1 * B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * C0 * Y)	-0.00003	-0.00003	-0.00002
	(!A1 * B0 * B1 * C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * B1 * C0 * Y)	0.00038	0.00038	0.00038
	(!A1 * B0 * B1 * !C0 * Y)	-0.00001	-0.00001	0.00000
	(!A1 * B0 * B1 * !C0 * Y)	-0.00003	-0.00003	-0.00002
	(!A1 * B0 * B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * B1 * !C0 * Y)	0.00035	0.00035	0.00035
	(!A1 * !B1 * !C0 * !Y)	-0.00032	-0.00032	-0.00032
	(!A1 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C0 * !Y)	0.00003	0.00003	0.00005
	(!A1 * !B1 * !C0 * !Y)	0.00003	0.00004	0.00004
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00032	-0.00032	-0.00032
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00002	0.00003	0.00004
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00004	0.00004	0.00005
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00032	-0.00032	-0.00032
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00002	0.00003	0.00004
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00004	0.00004	0.00005
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00032	-0.00032	-0.00032
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00004	0.00004	0.00005

Passive power(pJ) for C1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X3H7H	**(A1 * B0 * B1 * C0 * Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C0 * Y)	0.00003	0.00004	0.00004
	(A1 * B0 * B1 * C0 * Y)	-0.00001	-0.00000	-0.00000
	(A1 * B0 * B1 * C0 * Y)	-0.00038	-0.00038	-0.00038
	(A1 * B0 * B1 * !C0 * Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C0 * Y)	0.00003	0.00003	0.00003
	(A1 * B0 * B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * B1 * !C0 * Y)	-0.00035	-0.00034	-0.00033
	(A0 * A1 * !B1 * C0 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * !B1 * C0 * Y)	0.00003	0.00003	0.00004
	(A0 * A1 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B1 * C0 * Y)	-0.00038	-0.00038	-0.00037
	(A0 * A1 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * Y)	0.00003	0.00003	0.00004
	(A0 * A1 * !B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B1 * !C0 * Y)	-0.00035	-0.00034	-0.00033
	(A0 * A1 * !B0 * B1 * C0 * Y)	-0.00001	-0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C0 * Y)	0.00003	0.00004	0.00005
	(A0 * A1 * !B0 * B1 * C0 * Y)	-0.00001	-0.00000	-0.00000
	(A0 * A1 * !B0 * B1 * C0 * Y)	-0.00038	-0.00038	-0.00037
	(A0 * A1 * !B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C0 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00035	-0.00034	-0.00033
	(!A1 * B0 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * C0 * Y)	0.00002	0.00003	0.00003
	(!A1 * B0 * B1 * C0 * Y)	-0.00000	-0.00001	-0.00000
	(!A1 * B0 * B1 * C0 * Y)	-0.00038	-0.00038	-0.00038
	(!A1 * B0 * B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * B1 * !C0 * Y)	0.00003	0.00003	0.00004
	(!A1 * B0 * B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * B1 * !C0 * Y)	-0.00035	-0.00034	-0.00032
	(!A1 * !B1 * !C0 * !Y)	0.00032	0.00032	0.00032
	(!A1 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C0 * !Y)	-0.00004	-0.00003	-0.00003
	(!A1 * !B1 * !C0 * !Y)	-0.00004	-0.00004	-0.00003
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00032	0.00032	0.00032
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00004	-0.00003	-0.00002
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00004	-0.00004	-0.00003
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00032	0.00032	0.00032
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00004	-0.00004	-0.00003
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00032	0.00032	0.00032
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00004	-0.00004	-0.00003

AO222X4H7H

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

Cell Description

AO

Y=(A0 & A1)(B0 & B1)(C0 & C1)

Truth Table

INPUT						OUTPUT
A0	A1	B0	B1	C0	C1	Y
0	x	0	x	0	x	0
0	x	0	x	1	0	0
0	x	x	x	1	1	1
0	x	1	0	0	x	0
0	x	1	0	1	0	0
x	x	1	1	x	x	1
1	0	0	x	0	x	0
1	0	0	x	1	0	0
1	0	x	x	1	1	1
1	0	1	0	0	x	0
1	0	1	0	1	0	0
1	1	x	x	x	x	1

Footprint

Cell Name	Area
AO222X4H7H	3.92000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	A1	B0	B1	C0	C1	Y
AO222X4H7H	0.00105	0.00107	0.00101	0.00101	0.00103	0.00114	0.10898

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO222X4H7H	0.00000	0.06093	0.06772

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO222X4H7H	A0->Y (RR)	0.10590	0.30271	0.77600
	A1->Y (RR)	0.10243	0.29792	0.76736
	B0->Y (RR)	0.09825	0.29256	0.75936
	B1->Y (RR)	0.09501	0.28781	0.75058
	C0->Y (RR)	0.08841	0.27973	0.73858
	C1->Y (RR)	0.08696	0.27649	0.73116

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO222X4H7H	A0->Y (FF)	0.21697	0.39360	0.79233
	A1->Y (FF)	0.20593	0.38094	0.77660
	B0->Y (FF)	0.20507	0.38302	0.79280
	B1->Y (FF)	0.19501	0.37133	0.77744
	C0->Y (FF)	0.17816	0.35054	0.75019
	C1->Y (FF)	0.17184	0.34201	0.73783

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO222X4H7H	A0	0.00119	0.00131	0.00144
	A0	0.00027	0.00027	0.00027
	A0	-0.00009	-0.00009	-0.00009
	A0	0.00381	0.00394	0.00407
	A1	0.00119	0.00131	0.00144
	A1	0.00026	0.00027	0.00027
	A1	-0.00003	-0.00003	0.00001
	A1	0.00355	0.00367	0.00381
	B0	0.00120	0.00133	0.00145
	B0	0.00013	0.00013	0.00017
	B0	-0.00009	-0.00009	-0.00007
	B0	0.00343	0.00356	0.00368
	B1	0.00118	0.00130	0.00143
	B1	0.00013	0.00015	0.00020
	B1	-0.00003	-0.00003	0.00001
	B1	0.00315	0.00327	0.00341
	C0	0.00123	0.00136	0.00148
	C0	-0.00001	-0.00000	0.00002
	C0	-0.00009	-0.00009	-0.00009
	C0	0.00307	0.00320	0.00332
	C1	0.00122	0.00135	0.00149
	C1	-0.00001	0.00001	0.00006
	C1	-0.00003	-0.00003	-0.00003
	C1	0.00287	0.00300	0.00314

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO222X4H7H	A0	0.00421	0.00431	0.00444
	A0	-0.00025	-0.00025	-0.00024
	A0	0.00021	0.00021	0.00022
	A0	0.00148	0.00160	0.00172
	A1	0.00400	0.00412	0.00425
	A1	-0.00025	-0.00025	-0.00024
	A1	0.00014	0.00015	0.00016
	A1	0.00149	0.00163	0.00176
	B0	0.00369	0.00379	0.00392
	B0	-0.00013	-0.00013	-0.00010
	B0	0.00021	0.00021	0.00021
	B0	0.00148	0.00160	0.00172
	B1	0.00352	0.00363	0.00376
	B1	-0.00013	-0.00012	-0.00006
	B1	0.00013	0.00015	0.00015
	B1	0.00152	0.00164	0.00177
	C0	0.00311	0.00321	0.00334
	C0	0.00000	0.00001	0.00003
	C0	0.00021	0.00021	0.00021
	C0	0.00138	0.00149	0.00162
	C1	0.00295	0.00306	0.00321
	C1	0.00000	0.00001	0.00002
	C1	0.00015	0.00015	0.00015
	C1	0.00136	0.00149	0.00164

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X4H7H	**(A1 * B0 * B1 * C0 * C1 * Y)**	-0.00015	-0.00013	-0.00010
	(A1 * B0 * B1 * C0 * C1 * Y)	-0.00004	-0.00004	-0.00003
	(A1 * B0 * B1 * C0 * C1 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * B1 * C0 * C1 * Y)	0.00033	0.00033	0.00034
	(A1 * B0 * B1 * !C1 * Y)	-0.00015	-0.00013	-0.00009
	(A1 * B0 * B1 * !C1 * Y)	-0.00004	-0.00003	-0.00003
	(A1 * B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !C1 * Y)	0.00033	0.00033	0.00033
	(A1 * B0 * B1 * !C0 * C1 * Y)	-0.00015	-0.00013	-0.00010
	(A1 * B0 * B1 * !C0 * C1 * Y)	-0.00004	-0.00004	-0.00003
	(A1 * B0 * B1 * !C0 * C1 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !C0 * C1 * Y)	0.00033	0.00033	0.00034
	(A1 * !B1 * C0 * C1 * Y)	-0.00014	-0.00012	-0.00009
	(A1 * !B1 * C0 * C1 * Y)	-0.00004	-0.00003	-0.00003
	(A1 * !B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(A1 * !B1 * C0 * C1 * Y)	0.00034	0.00034	0.00034
	(A1 * !B0 * B1 * C0 * C1 * Y)	-0.00014	-0.00012	-0.00010
	(A1 * !B0 * B1 * C0 * C1 * Y)	-0.00004	-0.00003	-0.00003
	(A1 * !B0 * B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * B1 * C0 * C1 * Y)	0.00034	0.00034	0.00034
	(!A1 * B0 * B1 * Y)	-0.00021	-0.00020	-0.00020
	(!A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * B1 * Y)	0.00029	0.00029	0.00029
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	-0.00021	-0.00021	-0.00020
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	0.00029	0.00029	0.00030
	(!A1 * !B1 * !C1 * !Y)	-0.00026	-0.00026	-0.00026
	(!A1 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B1 * !C1 * !Y)	0.00002	0.00002	0.00002
	(!A1 * !B1 * !C1 * !Y)	0.00024	0.00024	0.00025
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00026	-0.00026	-0.00026
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00024	0.00024	0.00025
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00026	-0.00026	-0.00026
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00023	0.00024	0.00025
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	-0.00026	-0.00026	-0.00026
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	0.00024	0.00024	0.00025

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X4H7H	**(A1 * B0 * B1 * C0 * C1 * Y)**	0.00014	0.00015	0.00015
	(A1 * B0 * B1 * C0 * C1 * Y)	0.00003	0.00004	0.00004
	(A1 * B0 * B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * B1 * C0 * C1 * Y)	-0.00033	-0.00033	-0.00033
	(A1 * B0 * B1 * !C1 * Y)	0.00014	0.00015	0.00015
	(A1 * B0 * B1 * !C1 * Y)	0.00003	0.00003	0.00004
	(A1 * B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * B1 * !C1 * Y)	-0.00033	-0.00033	-0.00033
	(A1 * B0 * B1 * !C0 * C1 * Y)	0.00014	0.00015	0.00015
	(A1 * B0 * B1 * !C0 * C1 * Y)	0.00003	0.00004	0.00004
	(A1 * B0 * B1 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * B1 * !C0 * C1 * Y)	-0.00033	-0.00033	-0.00032
	(A1 * !B1 * C0 * C1 * Y)	0.00014	0.00014	0.00015
	(A1 * !B1 * C0 * C1 * Y)	0.00003	0.00004	0.00004
	(A1 * !B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B1 * C0 * C1 * Y)	-0.00034	-0.00034	-0.00033
	(A1 * !B0 * B1 * C0 * C1 * Y)	0.00014	0.00014	0.00015
	(A1 * !B0 * B1 * C0 * C1 * Y)	0.00003	0.00003	0.00004
	(A1 * !B0 * B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * B1 * C0 * C1 * Y)	-0.00034	-0.00034	-0.00033
	(!A1 * B0 * B1 * Y)	0.00021	0.00021	0.00021
	(!A1 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * B1 * Y)	-0.00029	-0.00028	-0.00027
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	0.00020	0.00021	0.00021
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	-0.00029	-0.00028	-0.00027
	(!A1 * !B1 * !C1 * !Y)	0.00026	0.00026	0.00027
	(!A1 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B1 * !C1 * !Y)	-0.00024	-0.00022	-0.00020
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00026	0.00026	0.00027
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00024	-0.00022	-0.00020
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00026	0.00026	0.00027
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00024	-0.00023	-0.00021
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	0.00026	0.00026	0.00027
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	-0.00024	-0.00023	-0.00021

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X4H7H	**(A0 * B0 * B1 * C0 * C1 * Y)**	-0.00014	-0.00012	-0.00010
	(A0 * B0 * B1 * C0 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * B1 * C0 * C1 * Y)	0.00000	0.00001	0.00001
	(A0 * B0 * B1 * C0 * C1 * Y)	0.00031	0.00031	0.00032
	(A0 * B0 * B1 * !C1 * Y)	-0.00014	-0.00012	-0.00009
	(A0 * B0 * B1 * !C1 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * B0 * B1 * !C1 * Y)	0.00000	0.00001	0.00001
	(A0 * B0 * B1 * !C1 * Y)	0.00031	0.00031	0.00032
	(A0 * B0 * B1 * !C0 * C1 * Y)	-0.00014	-0.00012	-0.00009
	(A0 * B0 * B1 * !C0 * C1 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * B0 * B1 * !C0 * C1 * Y)	0.00000	0.00001	0.00001
	(A0 * B0 * B1 * !C0 * C1 * Y)	0.00031	0.00031	0.00032
	(A0 * !B1 * C0 * C1 * Y)	-0.00014	-0.00012	-0.00010
	(A0 * !B1 * C0 * C1 * Y)	-0.00004	-0.00003	-0.00002
	(A0 * !B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * !B1 * C0 * C1 * Y)	0.00032	0.00032	0.00032
	(A0 * !B0 * B1 * C0 * C1 * Y)	-0.00014	-0.00012	-0.00009
	(A0 * !B0 * B1 * C0 * C1 * Y)	-0.00004	-0.00003	-0.00002
	(A0 * !B0 * B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * B1 * C0 * C1 * Y)	0.00032	0.00032	0.00032
	(!A0 * B0 * B1 * C0 * C1 * Y)	-0.00020	-0.00020	-0.00019
	(!A0 * B0 * B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * C0 * C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * B0 * B1 * C0 * C1 * Y)	0.00027	0.00027	0.00027
	(!A0 * B0 * B1 * !C1 * Y)	-0.00020	-0.00020	-0.00019
	(!A0 * B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * B1 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * B0 * B1 * !C1 * Y)	0.00027	0.00027	0.00027
	(!A0 * B0 * B1 * !C0 * C1 * Y)	-0.00020	-0.00020	-0.00019
	(!A0 * B0 * B1 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * B1 * !C0 * C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * B0 * B1 * !C0 * C1 * Y)	0.00027	0.00027	0.00027
	(!A0 * !B1 * C0 * C1 * Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B1 * C0 * C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B1 * C0 * C1 * Y)	0.00027	0.00027	0.00027
	(!A0 * !B1 * !C1 * !Y)	-0.00032	-0.00031	-0.00031
	(!A0 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * !C1 * !Y)	0.00003	0.00004	0.00005
	(!A0 * !B1 * !C1 * !Y)	0.00006	0.00006	0.00007
	(!A0 * !B1 * !C0 * C1 * !Y)	-0.00032	-0.00031	-0.00031
	(!A0 * !B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * !C0 * C1 * !Y)	0.00003	0.00004	0.00005
	(!A0 * !B1 * !C0 * C1 * !Y)	0.00006	0.00006	0.00007
	(!A0 * !B0 * B1 * C0 * C1 * Y)	-0.00020	-0.00020	-0.00019
	(!A0 * !B0 * B1 * C0 * C1 * Y)	-0.00001	-0.00001	0.00000
	(!A0 * !B0 * B1 * C0 * C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * B1 * C0 * C1 * Y)	0.00027	0.00027	0.00027
	(!A0 * !B0 * B1 * !C1 * !Y)	-0.00032	-0.00031	-0.00031
	(!A0 * !B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * B1 * !C1 * !Y)	0.00003	0.00004	0.00005
	(!A0 * !B0 * B1 * !C1 * !Y)	0.00006	0.00006	0.00007
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	-0.00032	-0.00031	-0.00031
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	0.00003	0.00004	0.00005
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	0.00006	0.00006	0.00007

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X4H7H	**(A0 * B0 * B1 * C0 * C1 * Y)**	0.00014	0.00014	0.00014
	(A0 * B0 * B1 * C0 * C1 * Y)	0.00003	0.00003	0.00003
	(A0 * B0 * B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * B1 * C0 * C1 * Y)	-0.00031	-0.00031	-0.00031
	(A0 * B0 * B1 * !C1 * Y)	0.00014	0.00015	0.00015
	(A0 * B0 * B1 * !C1 * Y)	0.00002	0.00003	0.00003
	(A0 * B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * B1 * !C1 * Y)	-0.00031	-0.00031	-0.00031
	(A0 * B0 * B1 * !C0 * C1 * Y)	0.00014	0.00014	0.00015
	(A0 * B0 * B1 * !C0 * C1 * Y)	0.00002	0.00003	0.00003
	(A0 * B0 * B1 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * B1 * !C0 * C1 * Y)	-0.00031	-0.00031	-0.00031
	(A0 * !B1 * C0 * C1 * Y)	0.00014	0.00014	0.00015
	(A0 * !B1 * C0 * C1 * Y)	0.00002	0.00003	0.00004
	(A0 * !B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B1 * C0 * C1 * Y)	-0.00032	-0.00032	-0.00031
	(A0 * !B0 * B1 * C0 * C1 * Y)	0.00014	0.00014	0.00015
	(A0 * !B0 * B1 * C0 * C1 * Y)	0.00002	0.00003	0.00004
	(A0 * !B0 * B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * B1 * C0 * C1 * Y)	-0.00032	-0.00032	-0.00031
	(!A0 * B0 * B1 * C0 * C1 * Y)	0.00020	0.00020	0.00020
	(!A0 * B0 * B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * C0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * B0 * B1 * C0 * C1 * Y)	-0.00027	-0.00026	-0.00025
	(!A0 * B0 * B1 * !C1 * Y)	0.00019	0.00020	0.00020
	(!A0 * B0 * B1 * !C1 * Y)	0.00001	0.00002	0.00002
	(!A0 * B0 * B1 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * B0 * B1 * !C1 * Y)	-0.00027	-0.00026	-0.00024
	(!A0 * B0 * B1 * !C0 * C1 * Y)	0.00019	0.00020	0.00020
	(!A0 * B0 * B1 * !C0 * C1 * Y)	0.00001	0.00001	0.00002
	(!A0 * B0 * B1 * !C0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * B0 * B1 * !C0 * C1 * Y)	-0.00027	-0.00026	-0.00024
	(!A0 * !B1 * C0 * C1 * Y)	0.00020	0.00020	0.00020
	(!A0 * !B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * C0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B1 * C0 * C1 * Y)	-0.00027	-0.00026	-0.00025
	(!A0 * !B1 * !C1 * !Y)	0.00031	0.00031	0.00032
	(!A0 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * !C1 * !Y)	-0.00004	-0.00004	-0.00003
	(!A0 * !B1 * !C1 * !Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !B1 * !C0 * C1 * !Y)	0.00031	0.00031	0.00032
	(!A0 * !B1 * !C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * !C0 * C1 * !Y)	-0.00004	-0.00004	-0.00003
	(!A0 * !B1 * !C0 * C1 * !Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !B0 * B1 * C0 * C1 * Y)	0.00020	0.00020	0.00020
	(!A0 * !B0 * B1 * C0 * C1 * Y)	0.00001	0.00001	0.00002
	(!A0 * !B0 * B1 * C0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * B1 * C0 * C1 * Y)	-0.00027	-0.00026	-0.00024
	(!A0 * !B0 * B1 * !C1 * !Y)	0.00031	0.00031	0.00032
	(!A0 * !B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * B1 * !C1 * !Y)	-0.00004	-0.00004	-0.00003
	(!A0 * !B0 * B1 * !C1 * !Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	0.00031	0.00031	0.00032
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	-0.00004	-0.00004	-0.00003
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	-0.00006	-0.00006	-0.00005

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X4H7H	**(A0 * A1 * B1 * C0 * C1 * Y)**	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * C0 * C1 * Y)	-0.00008	-0.00008	-0.00008
	(A0 * A1 * B1 * C0 * C1 * Y)	0.00000	0.00001	0.00002
	(A0 * A1 * B1 * C0 * C1 * Y)	0.00030	0.00031	0.00031
	(A0 * A1 * B1 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * !C1 * Y)	-0.00007	-0.00006	-0.00005
	(A0 * A1 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B1 * !C1 * Y)	0.00031	0.00031	0.00031
	(A0 * A1 * B1 * !C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * Y)	-0.00007	-0.00006	-0.00006
	(A0 * A1 * B1 * !C0 * C1 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B1 * !C0 * C1 * Y)	0.00031	0.00031	0.00031
	(A0 * A1 * !B1 * C0 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * C1 * Y)	-0.00008	-0.00008	-0.00008
	(A0 * A1 * !B1 * C0 * C1 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B1 * C0 * C1 * Y)	0.00027	0.00027	0.00027
	(A0 * A1 * !B1 * !C1 * Y)	-0.00000	0.00000	0.00001
	(A0 * A1 * !B1 * !C1 * Y)	-0.00006	-0.00006	-0.00006
	(A0 * A1 * !B1 * !C1 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B1 * !C1 * Y)	0.00027	0.00027	0.00027
	(A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00007	-0.00006	-0.00006
	(A0 * A1 * !B1 * !C0 * C1 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B1 * !C0 * C1 * Y)	0.00027	0.00027	0.00028
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	-0.00022	-0.00022	-0.00021
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	-0.00002	-0.00001	-0.00000
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	0.00024	0.00024	0.00024
	(!A1 * B1 * C0 * C1 * Y)	-0.00017	-0.00015	-0.00012
	(!A1 * B1 * C0 * C1 * Y)	-0.00003	-0.00003	-0.00002
	(!A1 * B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B1 * C0 * C1 * Y)	0.00029	0.00029	0.00030
	(!A1 * !B1 * !C1 * !Y)	-0.00025	-0.00025	-0.00024
	(!A1 * !B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B1 * !C1 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B1 * !C1 * !Y)	0.00022	0.00022	0.00023
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00025	-0.00025	-0.00024
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00022	0.00022	0.00023
	(!A0 * A1 * B1 * C0 * C1 * Y)	-0.00017	-0.00015	-0.00012
	(!A0 * A1 * B1 * C0 * C1 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * A1 * B1 * C0 * C1 * Y)	-0.00000	0.00001	0.00001
	(!A0 * A1 * B1 * C0 * C1 * Y)	0.00029	0.00030	0.00030
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00025	-0.00025	-0.00025
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00022	0.00022	0.00023
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00025	-0.00025	-0.00024
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00022	0.00022	0.00023

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X4H7H	**(A0 * A1 * B1 * C0 * C1 * Y)**	-0.00000	0.00000	0.00001
	(A0 * A1 * B1 * C0 * C1 * Y)	0.00008	0.00008	0.00008
	(A0 * A1 * B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * B1 * C0 * C1 * Y)	-0.00031	-0.00031	-0.00030
	(A0 * A1 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C1 * Y)	0.00007	0.00007	0.00007
	(A0 * A1 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B1 * !C1 * Y)	-0.00031	-0.00031	-0.00031
	(A0 * A1 * B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * Y)	0.00007	0.00007	0.00007
	(A0 * A1 * B1 * !C0 * C1 * Y)	-0.00001	-0.00001	0.00000
	(A0 * A1 * B1 * !C0 * C1 * Y)	-0.00031	-0.00031	-0.00030
	(A0 * A1 * !B1 * C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B1 * C0 * C1 * Y)	0.00008	0.00008	0.00009
	(A0 * A1 * !B1 * C0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B1 * C0 * C1 * Y)	-0.00027	-0.00026	-0.00025
	(A0 * A1 * !B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * Y)	0.00006	0.00006	0.00006
	(A0 * A1 * !B1 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B1 * !C1 * Y)	-0.00027	-0.00026	-0.00025
	(A0 * A1 * !B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * C1 * Y)	0.00006	0.00006	0.00007
	(A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00027	-0.00026	-0.00025
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	0.00021	0.00022	0.00022
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	0.00001	0.00001	0.00002
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	-0.00024	-0.00023	-0.00022
	(!A1 * B1 * C0 * C1 * Y)	0.00016	0.00017	0.00017
	(!A1 * B1 * C0 * C1 * Y)	0.00002	0.00003	0.00003
	(!A1 * B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B1 * C0 * C1 * Y)	-0.00029	-0.00029	-0.00028
	(!A1 * !B1 * !C1 * !Y)	0.00025	0.00025	0.00026
	(!A1 * !B1 * !C1 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B1 * !C1 * !Y)	-0.00022	-0.00021	-0.00019
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00025	0.00025	0.00026
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00022	-0.00021	-0.00019
	(!A0 * A1 * B1 * C0 * C1 * Y)	0.00017	0.00017	0.00017
	(!A0 * A1 * B1 * C0 * C1 * Y)	0.00002	0.00003	0.00003
	(!A0 * A1 * B1 * C0 * C1 * Y)	-0.00001	-0.00001	0.00000
	(!A0 * A1 * B1 * C0 * C1 * Y)	-0.00029	-0.00029	-0.00029
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00025	0.00025	0.00026
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00022	-0.00021	-0.00019
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00025	0.00025	0.00026
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00022	-0.00021	-0.00019

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X4H7H	**(A0 * A1 * B0 * C0 * C1 * Y)**	-0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * C1 * Y)	-0.00009	-0.00009	-0.00009
	(A0 * A1 * B0 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * C0 * C1 * Y)	0.00027	0.00027	0.00027
	(A0 * A1 * B0 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C1 * Y)	-0.00008	-0.00007	-0.00007
	(A0 * A1 * B0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * !C1 * Y)	0.00026	0.00027	0.00027
	(A0 * A1 * B0 * !C0 * C1 * Y)	-0.00000	0.00000	0.00001
	(A0 * A1 * B0 * !C0 * C1 * Y)	-0.00008	-0.00007	-0.00007
	(A0 * A1 * B0 * !C0 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * !C0 * C1 * Y)	0.00026	0.00026	0.00027
	(A0 * A1 * !B0 * C0 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * C0 * C1 * Y)	-0.00009	-0.00009	-0.00009
	(A0 * A1 * !B0 * C0 * C1 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * C0 * C1 * Y)	0.00023	0.00023	0.00023
	(A0 * A1 * !B0 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C1 * Y)	-0.00007	-0.00007	-0.00006
	(A0 * A1 * !B0 * !C1 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * !C1 * Y)	0.00023	0.00023	0.00023
	(A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00007	-0.00007	-0.00007
	(A0 * A1 * !B0 * !C0 * C1 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * !C0 * C1 * Y)	0.00023	0.00023	0.00023
	(!A1 * B0 * C0 * C1 * Y)	-0.00019	-0.00017	-0.00015
	(!A1 * B0 * C0 * C1 * Y)	-0.00003	-0.00003	-0.00002
	(!A1 * B0 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * C0 * C1 * Y)	0.00025	0.00025	0.00026
	(!A1 * !B0 * C0 * C1 * Y)	-0.00024	-0.00024	-0.00024
	(!A1 * !B0 * C0 * C1 * Y)	-0.00001	-0.00001	0.00000
	(!A1 * !B0 * C0 * C1 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * C0 * C1 * Y)	0.00020	0.00020	0.00020
	(!A1 * !B0 * !C1 * !Y)	-0.00033	-0.00033	-0.00033
	(!A1 * !B0 * !C1 * !Y)	-0.00001	-0.00001	0.00000
	(!A1 * !B0 * !C1 * !Y)	0.00004	0.00004	0.00004
	(!A1 * !B0 * !C1 * !Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * !C0 * C1 * !Y)	-0.00033	-0.00033	-0.00033
	(!A1 * !B0 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !C0 * C1 * !Y)	0.00004	0.00004	0.00004
	(!A1 * !B0 * !C0 * C1 * !Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * B0 * C0 * C1 * Y)	-0.00019	-0.00017	-0.00014
	(!A0 * A1 * B0 * C0 * C1 * Y)	-0.00004	-0.00003	-0.00003
	(!A0 * A1 * B0 * C0 * C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * B0 * C0 * C1 * Y)	0.00025	0.00025	0.00026
	(!A0 * A1 * !B0 * C0 * C1 * Y)	-0.00024	-0.00024	-0.00024
	(!A0 * A1 * !B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * C0 * C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B0 * C0 * C1 * Y)	0.00020	0.00020	0.00020
	(!A0 * A1 * !B0 * !C1 * !Y)	-0.00033	-0.00033	-0.00033
	(!A0 * A1 * !B0 * !C1 * !Y)	-0.00001	-0.00001	0.00000
	(!A0 * A1 * !B0 * !C1 * !Y)	0.00004	0.00004	0.00004
	(!A0 * A1 * !B0 * !C1 * !Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00033	-0.00033	-0.00033
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00001	-0.00001	0.00000
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00004	0.00004	0.00004
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00003	0.00003	0.00003

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X4H7H	**(A0 * A1 * B0 * C0 * C1 * Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * C1 * Y)	0.00009	0.00009	0.00009
	(A0 * A1 * B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B0 * C0 * C1 * Y)	-0.00027	-0.00027	-0.00027
	(A0 * A1 * B0 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B0 * !C1 * Y)	0.00007	0.00008	0.00009
	(A0 * A1 * B0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B0 * !C1 * Y)	-0.00027	-0.00026	-0.00026
	(A0 * A1 * B0 * !C0 * C1 * Y)	-0.00001	-0.00000	0.00000
	(A0 * A1 * B0 * !C0 * C1 * Y)	0.00007	0.00008	0.00009
	(A0 * A1 * B0 * !C0 * C1 * Y)	-0.00001	-0.00001	0.00000
	(A0 * A1 * B0 * !C0 * C1 * Y)	-0.00027	-0.00026	-0.00026
	(A0 * A1 * !B0 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * C0 * C1 * Y)	0.00009	0.00009	0.00009
	(A0 * A1 * !B0 * C0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * C0 * C1 * Y)	-0.00023	-0.00022	-0.00021
	(A0 * A1 * !B0 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C1 * Y)	0.00006	0.00007	0.00008
	(A0 * A1 * !B0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * !C1 * Y)	-0.00023	-0.00022	-0.00020
	(A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * C1 * Y)	0.00007	0.00007	0.00007
	(A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00023	-0.00022	-0.00020
	(!A1 * B0 * C0 * C1 * Y)	0.00019	0.00019	0.00020
	(!A1 * B0 * C0 * C1 * Y)	0.00002	0.00003	0.00003
	(!A1 * B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * C0 * C1 * Y)	-0.00025	-0.00025	-0.00024
	(!A1 * !B0 * C0 * C1 * Y)	0.00024	0.00024	0.00025
	(!A1 * !B0 * C0 * C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * C0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * C0 * C1 * Y)	-0.00020	-0.00019	-0.00018
	(!A1 * !B0 * !C1 * !Y)	0.00033	0.00033	0.00033
	(!A1 * !B0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C1 * !Y)	-0.00004	-0.00004	-0.00003
	(!A1 * !B0 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * !C0 * C1 * !Y)	0.00033	0.00033	0.00033
	(!A1 * !B0 * !C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C0 * C1 * !Y)	-0.00004	-0.00004	-0.00003
	(!A1 * !B0 * !C0 * C1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * A1 * B0 * C0 * C1 * Y)	0.00019	0.00019	0.00019
	(!A0 * A1 * B0 * C0 * C1 * Y)	0.00003	0.00003	0.00004
	(!A0 * A1 * B0 * C0 * C1 * Y)	-0.00001	-0.00001	0.00000
	(!A0 * A1 * B0 * C0 * C1 * Y)	-0.00025	-0.00024	-0.00024
	(!A0 * A1 * !B0 * C0 * C1 * Y)	0.00024	0.00024	0.00024
	(!A0 * A1 * !B0 * C0 * C1 * Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * !B0 * C0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B0 * C0 * C1 * Y)	-0.00020	-0.00019	-0.00018
	(!A0 * A1 * !B0 * !C1 * !Y)	0.00033	0.00033	0.00033
	(!A0 * A1 * !B0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * !C1 * !Y)	-0.00004	-0.00004	-0.00003
	(!A0 * A1 * !B0 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00033	0.00033	0.00033
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00004	-0.00004	-0.00003
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00003	-0.00003	-0.00002

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X4H7H	**(A1 * B0 * B1 * C1 * Y)**	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * C1 * Y)	-0.00004	-0.00004	-0.00004
	(A1 * B0 * B1 * C1 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * C1 * Y)	0.00036	0.00037	0.00037
	(A1 * B0 * B1 * !C1 * Y)	-0.00000	0.00000	0.00001
	(A1 * B0 * B1 * !C1 * Y)	-0.00005	-0.00004	-0.00004
	(A1 * B0 * B1 * !C1 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * !C1 * Y)	0.00033	0.00033	0.00033
	(A0 * A1 * !B1 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B1 * C1 * Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * !B1 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * C1 * Y)	0.00036	0.00037	0.00037
	(A0 * A1 * !B1 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * !B1 * !C1 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B1 * !C1 * Y)	0.00033	0.00033	0.00033
	(A0 * A1 * !B0 * B1 * C1 * Y)	-0.00001	-0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C1 * Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * !B0 * B1 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * B1 * C1 * Y)	0.00036	0.00037	0.00037
	(A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00001	-0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00004	-0.00004	-0.00003
	(A0 * A1 * !B0 * B1 * !C1 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * B1 * !C1 * Y)	0.00033	0.00033	0.00033
	(!A1 * B0 * B1 * C1 * Y)	-0.00001	-0.00000	0.00000
	(!A1 * B0 * B1 * C1 * Y)	-0.00004	-0.00004	-0.00003
	(!A1 * B0 * B1 * C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * C1 * Y)	0.00036	0.00037	0.00037
	(!A1 * B0 * B1 * !C1 * Y)	-0.00001	-0.00000	0.00000
	(!A1 * B0 * B1 * !C1 * Y)	-0.00004	-0.00004	-0.00003
	(!A1 * B0 * B1 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * B1 * !C1 * Y)	0.00033	0.00033	0.00033
	(!A1 * !B1 * !C1 * !Y)	-0.00024	-0.00024	-0.00024
	(!A1 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C1 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B1 * !C1 * !Y)	0.00021	0.00021	0.00021
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00024	-0.00024	-0.00024
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00021	0.00021	0.00021
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00024	-0.00024	-0.00024
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00021	0.00021	0.00021
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00024	-0.00024	-0.00024
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00021	0.00021	0.00021

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X4H7H	**(A1 * B0 * B1 * C1 * Y)**	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C1 * Y)	0.00004	0.00005	0.00006
	(A1 * B0 * B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * C1 * Y)	-0.00037	-0.00036	-0.00036
	(A1 * B0 * B1 * !C1 * Y)	-0.00001	-0.00000	0.00000
	(A1 * B0 * B1 * !C1 * Y)	0.00004	0.00004	0.00005
	(A1 * B0 * B1 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * B1 * !C1 * Y)	-0.00033	-0.00032	-0.00031
	(A0 * A1 * !B1 * C1 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * !B1 * C1 * Y)	0.00004	0.00005	0.00005
	(A0 * A1 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * C1 * Y)	-0.00036	-0.00036	-0.00036
	(A0 * A1 * !B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * Y)	0.00004	0.00004	0.00005
	(A0 * A1 * !B1 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B1 * !C1 * Y)	-0.00033	-0.00032	-0.00031
	(A0 * A1 * !B0 * B1 * C1 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * !B0 * B1 * C1 * Y)	0.00004	0.00004	0.00005
	(A0 * A1 * !B0 * B1 * C1 * Y)	-0.00001	-0.00001	0.00000
	(A0 * A1 * !B0 * B1 * C1 * Y)	-0.00036	-0.00036	-0.00036
	(A0 * A1 * !B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * !B0 * B1 * !C1 * Y)	0.00003	0.00004	0.00004
	(A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00033	-0.00032	-0.00031
	(!A1 * B0 * B1 * C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * B1 * C1 * Y)	0.00003	0.00004	0.00005
	(!A1 * B0 * B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * C1 * Y)	-0.00037	-0.00036	-0.00036
	(!A1 * B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00001
	(!A1 * B0 * B1 * !C1 * Y)	0.00004	0.00004	0.00005
	(!A1 * B0 * B1 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * B1 * !C1 * Y)	-0.00033	-0.00032	-0.00031
	(!A1 * !B1 * !C1 * !Y)	0.00024	0.00024	0.00025
	(!A1 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B1 * !C1 * !Y)	-0.00021	-0.00019	-0.00017
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00024	0.00024	0.00025
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00021	-0.00019	-0.00017
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00024	0.00024	0.00025
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00021	-0.00019	-0.00017
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00024	0.00024	0.00025
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00021	-0.00019	-0.00017

Passive power(pJ) for C1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X4H7H	**(A1 * B0 * B1 * C0 * Y)**	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * C0 * Y)	-0.00004	-0.00004	-0.00003
	(A1 * B0 * B1 * C0 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * B1 * C0 * Y)	0.00041	0.00042	0.00042
	(A1 * B0 * B1 * !C0 * Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C0 * Y)	-0.00004	-0.00004	-0.00003
	(A1 * B0 * B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * !C0 * Y)	0.00038	0.00038	0.00038
	(A0 * A1 * !B1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B1 * C0 * Y)	-0.00004	-0.00004	-0.00003
	(A0 * A1 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * C0 * Y)	0.00041	0.00042	0.00042
	(A0 * A1 * !B1 * !C0 * Y)	-0.00001	-0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * Y)	-0.00004	-0.00004	-0.00002
	(A0 * A1 * !B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B1 * !C0 * Y)	0.00038	0.00038	0.00038
	(A0 * A1 * !B0 * B1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C0 * Y)	-0.00004	-0.00004	-0.00003
	(A0 * A1 * !B0 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * B1 * C0 * Y)	0.00041	0.00042	0.00042
	(A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00000	0.00000	0.00001
	(A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00004	-0.00004	-0.00003
	(A0 * A1 * !B0 * B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * B1 * !C0 * Y)	0.00037	0.00038	0.00038
	(!A1 * B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * C0 * Y)	-0.00004	-0.00004	-0.00003
	(!A1 * B0 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * C0 * Y)	0.00041	0.00042	0.00042
	(!A1 * B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * !C0 * Y)	-0.00004	-0.00003	-0.00002
	(!A1 * B0 * B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * B1 * !C0 * Y)	0.00038	0.00038	0.00038
	(!A1 * !B1 * !C0 * !Y)	-0.00036	-0.00036	-0.00036
	(!A1 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C0 * !Y)	0.00004	0.00004	0.00005
	(!A1 * !B1 * !C0 * !Y)	0.00003	0.00004	0.00004
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00036	-0.00036	-0.00036
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00004	0.00004	0.00004
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00003	0.00004	0.00004
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00036	-0.00036	-0.00036
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00004	0.00004	0.00004
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00003	0.00004	0.00004
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00036	-0.00036	-0.00036
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00003	0.00004	0.00004
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00004	0.00004	0.00005

Passive power(pJ) for C1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

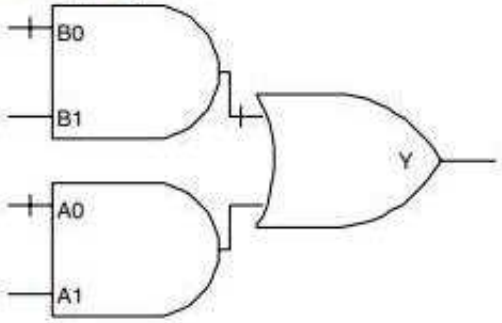
AO222X4H7H	**(A1 * B0 * B1 * C0 * Y)**	0.00000	0.00000	0.00001
	(A1 * B0 * B1 * C0 * Y)	0.00003	0.00004	0.00004
	(A1 * B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * B1 * C0 * Y)	-0.00042	-0.00041	-0.00041
	(A1 * B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C0 * Y)	0.00004	0.00004	0.00004
	(A1 * B0 * B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * B1 * !C0 * Y)	-0.00038	-0.00037	-0.00035
	(A0 * A1 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * Y)	0.00004	0.00004	0.00005
	(A0 * A1 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * C0 * Y)	-0.00041	-0.00041	-0.00041
	(A0 * A1 * !B1 * !C0 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * !B1 * !C0 * Y)	0.00002	0.00004	0.00004
	(A0 * A1 * !B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B1 * !C0 * Y)	-0.00038	-0.00037	-0.00035
	(A0 * A1 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C0 * Y)	0.00004	0.00005	0.00006
	(A0 * A1 * !B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * B1 * C0 * Y)	-0.00041	-0.00041	-0.00040
	(A0 * A1 * !B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C0 * Y)	0.00003	0.00004	0.00004
	(A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00038	-0.00037	-0.00035
	(!A1 * B0 * B1 * C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * B1 * C0 * Y)	0.00003	0.00004	0.00005
	(!A1 * B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * C0 * Y)	-0.00042	-0.00041	-0.00041
	(!A1 * B0 * B1 * !C0 * Y)	0.00000	0.00001	0.00002
	(!A1 * B0 * B1 * !C0 * Y)	0.00002	0.00003	0.00004
	(!A1 * B0 * B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * B1 * !C0 * Y)	-0.00038	-0.00037	-0.00035
	(!A1 * !B1 * !C0 * !Y)	0.00036	0.00036	0.00036
	(!A1 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C0 * !Y)	-0.00004	-0.00004	-0.00004
	(!A1 * !B1 * !C0 * !Y)	-0.00004	-0.00004	-0.00003
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00036	0.00036	0.00036
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00004	-0.00004	-0.00004
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00004	-0.00004	-0.00003
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00036	0.00036	0.00036
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00004	-0.00004	-0.00003
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00036	0.00036	0.00036
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00004	-0.00004	-0.00003
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00004	-0.00004	-0.00003

AO22X0P5H7H

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

Cell Description

The AO22 cell provides the logical OR of two AND groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	Y
0	x	0	x	0
0	x	1	0	0
x	x	1	1	1
1	0	0	x	0
1	0	1	0	0
1	1	x	x	1

Footprint

Cell Name	Area
AO22X0P5H7H	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	B1	Y
AO22X0P5H7H	0.00075	0.00087	0.00090	0.00092	0.03031

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO22X0P5H7H	0.00000	0.01647	0.02000

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO22X0P5H7H	A0->Y (RR)	0.09067	0.26730	0.70328
	A1->Y (RR)	0.08975	0.26539	0.69573
	B0->Y (RR)	0.08277	0.25484	0.67865
	B1->Y (RR)	0.08037	0.25122	0.66956

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO22X0P5H7H	A0->Y (FF)	0.12093	0.27199	0.63497
	A1->Y (FF)	0.11577	0.26454	0.62249
	B0->Y (FF)	0.10981	0.25313	0.60085
	B1->Y (FF)	0.10283	0.24388	0.58522

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO22X0P5H7H	A0	0.00041	0.00046	0.00051
	A0	0.00012	0.00012	0.00012
	A0	-0.00006	-0.00006	-0.00006
	A0	0.00187	0.00192	0.00197
	A1	0.00039	0.00044	0.00051
	A1	0.00011	0.00011	0.00013
	A1	-0.00002	-0.00002	-0.00002
	A1	0.00167	0.00173	0.00179
	B0	0.00040	0.00047	0.00053
	B0	0.00003	0.00003	0.00003
	B0	-0.00006	-0.00006	-0.00006
	B0	0.00162	0.00168	0.00174
	B1	0.00041	0.00047	0.00054
	B1	0.00003	0.00003	0.00003
	B1	-0.00003	-0.00002	-0.00002
	B1	0.00142	0.00148	0.00155

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO22X0P5H7H	A0	0.00196	0.00201	0.00205
	A0	-0.00012	-0.00011	-0.00011
	A0	0.00010	0.00010	0.00010
	A0	0.00047	0.00052	0.00056
	A1	0.00186	0.00191	0.00197
	A1	-0.00011	-0.00011	-0.00011
	A1	0.00006	0.00006	0.00009
	A1	0.00052	0.00058	0.00063
	B0	0.00154	0.00160	0.00166
	B0	-0.00003	-0.00003	-0.00003
	B0	0.00010	0.00010	0.00010
	B0	0.00038	0.00043	0.00049
	B1	0.00141	0.00147	0.00154
	B1	-0.00003	-0.00003	-0.00002
	B1	0.00005	0.00006	0.00006
	B1	0.00042	0.00048	0.00055

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X0P5H7H	(A1 * B0 * B1 * Y)	-0.00010	-0.00008	-0.00006
	(A1 * B0 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * B1 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * B1 * Y)	0.00028	0.00028	0.00029
	(!A1 * B0 * B1 * Y)	-0.00014	-0.00014	-0.00014
	(!A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * Y)	0.00024	0.00024	0.00024
	(!A1 * !B1 * !Y)	-0.00014	-0.00014	-0.00014
	(!A1 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !Y)	0.00024	0.00024	0.00024
	(!A1 * !B0 * B1 * !Y)	-0.00014	-0.00014	-0.00014
	(!A1 * !B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !Y)	0.00024	0.00024	0.00024

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X0P5H7H	(A1 * B0 * B1 * Y)	0.00009	0.00010	0.00010
	(A1 * B0 * B1 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * Y)	-0.00028	-0.00028	-0.00027
	(!A1 * B0 * B1 * Y)	0.00014	0.00014	0.00014
	(!A1 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * Y)	-0.00024	-0.00023	-0.00022
	(!A1 * !B1 * !Y)	0.00014	0.00014	0.00015
	(!A1 * !B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !Y)	-0.00024	-0.00023	-0.00021
	(!A1 * !B0 * B1 * !Y)	0.00014	0.00014	0.00015
	(!A1 * !B0 * B1 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !Y)	-0.00024	-0.00023	-0.00021

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X0P5H7H	(A0 * B0 * B1 * Y)	-0.00011	-0.00009	-0.00006
	(A0 * B0 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * Y)	0.00024	0.00025	0.00025
	(!A0 * B0 * B1 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * Y)	0.00020	0.00020	0.00020
	(!A0 * !B1 * !Y)	-0.00024	-0.00024	-0.00024
	(!A0 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !B1 * !Y)	0.00006	0.00006	0.00006
	(!A0 * !B0 * B1 * !Y)	-0.00024	-0.00024	-0.00024
	(!A0 * !B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * B1 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !B0 * B1 * !Y)	0.00006	0.00006	0.00006

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X0P5H7H	(A0 * B0 * B1 * Y)	0.00011	0.00011	0.00011
	(A0 * B0 * B1 * Y)	0.00002	0.00002	0.00002
	(A0 * B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * Y)	-0.00024	-0.00024	-0.00024
	(!A0 * B0 * B1 * Y)	0.00016	0.00016	0.00016
	(!A0 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * Y)	-0.00020	-0.00019	-0.00018
	(!A0 * !B1 * !Y)	0.00024	0.00024	0.00024
	(!A0 * !B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * !B1 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !B0 * B1 * !Y)	0.00024	0.00024	0.00024
	(!A0 * !B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * B1 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * !B0 * B1 * !Y)	-0.00006	-0.00006	-0.00006

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X0P5H7H	(A0 * A1 * B1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * Y)	0.00036	0.00036	0.00036
	(A0 * A1 * !B1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B1 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * A1 * !B1 * Y)	0.00001	0.00001	0.00002
	(A0 * A1 * !B1 * Y)	0.00033	0.00034	0.00034
	(!A1 * !B1 * !Y)	-0.00023	-0.00023	-0.00023
	(!A1 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B1 * !Y)	0.00019	0.00019	0.00020
	(!A0 * A1 * !B1 * !Y)	-0.00023	-0.00023	-0.00023
	(!A0 * A1 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * !B1 * !Y)	0.00019	0.00019	0.00020

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X0P5H7H	(A0 * A1 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * Y)	-0.00036	-0.00036	-0.00035
	(A0 * A1 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B1 * Y)	-0.00002	-0.00001	-0.00001
	(A0 * A1 * !B1 * Y)	-0.00034	-0.00033	-0.00032
	(!A1 * !B1 * !Y)	0.00023	0.00023	0.00024
	(!A1 * !B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !Y)	-0.00002	-0.00001	-0.00001
	(!A1 * !B1 * !Y)	-0.00019	-0.00018	-0.00018
	(!A0 * A1 * !B1 * !Y)	0.00023	0.00023	0.00024
	(!A0 * A1 * !B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !Y)	-0.00019	-0.00018	-0.00018

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X0P5H7H	(A0 * A1 * B0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B0 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * A1 * B0 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * B0 * Y)	0.00033	0.00033	0.00033
	(A0 * A1 * !B0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * Y)	0.00030	0.00030	0.00030
	(!A1 * !B0 * !Y)	-0.00029	-0.00028	-0.00028
	(!A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !Y)	0.00002	0.00003	0.00003
	(!A1 * !B0 * !Y)	0.00003	0.00003	0.00004
	(!A0 * A1 * !B0 * !Y)	-0.00029	-0.00028	-0.00028
	(!A0 * A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * A1 * !B0 * !Y)	0.00003	0.00003	0.00004

Passive power(pJ) for B1 falling (conditional):

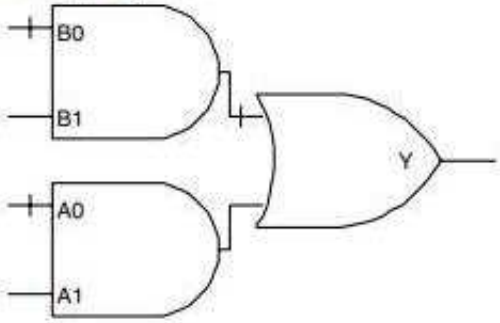
Cell Name	When	Power(pJ)		
		min	avg	max
AO22X0P5H7H	(A0 * A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * Y)	0.00002	0.00003	0.00003
	(A0 * A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * Y)	-0.00033	-0.00033	-0.00033
	(A0 * A1 * !B0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * Y)	-0.00030	-0.00030	-0.00028
	(!A1 * !B0 * !Y)	0.00028	0.00028	0.00029
	(!A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A1 * !B0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * !B0 * !Y)	0.00028	0.00028	0.00029
	(!A0 * A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * A1 * !B0 * !Y)	-0.00003	-0.00003	-0.00003

AO22X0P7H7H

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

Cell Description

The AO22 cell provides the logical OR of two AND groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	Y
0	x	0	x	0
0	x	1	0	0
x	x	1	1	1
1	0	0	x	0
1	0	1	0	0
1	1	x	x	1

Footprint

Cell Name	Area
AO22X0P7H7H	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	B1	Y
AO22X0P7H7H	0.00075	0.00087	0.00089	0.00092	0.03456

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO22X0P7H7H	0.00000	0.01719	0.02206

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO22X0P7H7H	A0->Y (RR)	0.08991	0.26784	0.70609
	A1->Y (RR)	0.08902	0.26605	0.69963
	B0->Y (RR)	0.08194	0.25536	0.68216
	B1->Y (RR)	0.07947	0.25176	0.67295

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO22X0P7H7H	A0->Y (FF)	0.12164	0.27473	0.64158
	A1->Y (FF)	0.11648	0.26731	0.62920
	B0->Y (FF)	0.11043	0.25580	0.60760
	B1->Y (FF)	0.10324	0.24652	0.59249

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO22X0P7H7H	A0	0.00044	0.00049	0.00054
	A0	0.00011	0.00012	0.00012
	A0	-0.00006	-0.00006	-0.00006
	A0	0.00190	0.00195	0.00201
	A1	0.00042	0.00048	0.00054
	A1	0.00011	0.00012	0.00012
	A1	-0.00002	-0.00002	-0.00002
	A1	0.00169	0.00176	0.00182
	B0	0.00043	0.00050	0.00057
	B0	0.00002	0.00003	0.00003
	B0	-0.00006	-0.00006	-0.00006
	B0	0.00164	0.00171	0.00177
	B1	0.00044	0.00051	0.00057
	B1	0.00002	0.00003	0.00003
	B1	-0.00002	-0.00002	-0.00002
	B1	0.00145	0.00151	0.00158

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO22X0P7H7H	A0	0.00199	0.00204	0.00209
	A0	-0.00011	-0.00011	-0.00011
	A0	0.00010	0.00010	0.00010
	A0	0.00051	0.00056	0.00060
	A1	0.00189	0.00195	0.00201
	A1	-0.00011	-0.00011	-0.00011
	A1	0.00006	0.00006	0.00006
	A1	0.00056	0.00062	0.00068
	B0	0.00157	0.00163	0.00170
	B0	-0.00003	-0.00003	-0.00002
	B0	0.00010	0.00010	0.00010
	B0	0.00042	0.00047	0.00054
	B1	0.00144	0.00150	0.00157
	B1	-0.00003	-0.00003	-0.00002
	B1	0.00006	0.00006	0.00006
	B1	0.00045	0.00052	0.00059

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X0P7H7H	(A1 * B0 * B1 * Y)	-0.00010	-0.00008	-0.00006
	(A1 * B0 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * B1 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * B1 * Y)	0.00028	0.00028	0.00029
	(!A1 * B0 * B1 * Y)	-0.00014	-0.00014	-0.00014
	(!A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * Y)	0.00024	0.00024	0.00024
	(!A1 * !B1 * !Y)	-0.00014	-0.00014	-0.00014
	(!A1 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !Y)	0.00024	0.00024	0.00024
	(!A1 * !B0 * B1 * !Y)	-0.00014	-0.00014	-0.00014
	(!A1 * !B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !Y)	0.00024	0.00024	0.00024

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X0P7H7H	(A1 * B0 * B1 * Y)	0.00009	0.00010	0.00010
	(A1 * B0 * B1 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * Y)	-0.00028	-0.00028	-0.00027
	(!A1 * B0 * B1 * Y)	0.00014	0.00014	0.00014
	(!A1 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * Y)	-0.00024	-0.00023	-0.00023
	(!A1 * !B1 * !Y)	0.00014	0.00014	0.00015
	(!A1 * !B1 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !Y)	-0.00024	-0.00023	-0.00021
	(!A1 * !B0 * B1 * !Y)	0.00014	0.00014	0.00015
	(!A1 * !B0 * B1 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !Y)	-0.00024	-0.00023	-0.00021

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X0P7H7H	(A0 * B0 * B1 * Y)	-0.00011	-0.00009	-0.00006
	(A0 * B0 * B1 * Y)	-0.00003	-0.00002	-0.00002
	(A0 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * Y)	0.00024	0.00025	0.00025
	(!A0 * B0 * B1 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * Y)	0.00020	0.00020	0.00020
	(!A0 * !B1 * !Y)	-0.00024	-0.00024	-0.00024
	(!A0 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !B1 * !Y)	0.00006	0.00006	0.00006
	(!A0 * !B0 * B1 * !Y)	-0.00024	-0.00024	-0.00024
	(!A0 * !B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * B1 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !B0 * B1 * !Y)	0.00006	0.00006	0.00006

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X0P7H7H	(A0 * B0 * B1 * Y)	0.00010	0.00011	0.00011
	(A0 * B0 * B1 * Y)	0.00002	0.00002	0.00003
	(A0 * B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * Y)	-0.00024	-0.00024	-0.00024
	(!A0 * B0 * B1 * Y)	0.00016	0.00016	0.00016
	(!A0 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * Y)	-0.00020	-0.00019	-0.00018
	(!A0 * !B1 * !Y)	0.00024	0.00024	0.00024
	(!A0 * !B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * !B1 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !B0 * B1 * !Y)	0.00024	0.00024	0.00024
	(!A0 * !B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * B1 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * !B0 * B1 * !Y)	-0.00006	-0.00006	-0.00005

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X0P7H7H	(A0 * A1 * B1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * Y)	0.00036	0.00036	0.00036
	(A0 * A1 * !B1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * Y)	0.00033	0.00033	0.00033
	(!A1 * !B1 * !Y)	-0.00023	-0.00023	-0.00023
	(!A1 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !Y)	0.00018	0.00019	0.00019
	(!A0 * A1 * !B1 * !Y)	-0.00023	-0.00023	-0.00023
	(!A0 * A1 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !Y)	0.00018	0.00019	0.00019

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X0P7H7H	(A0 * A1 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * Y)	-0.00036	-0.00036	-0.00035
	(A0 * A1 * !B1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * Y)	-0.00033	-0.00033	-0.00032
	(!A1 * !B1 * !Y)	0.00023	0.00023	0.00024
	(!A1 * !B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !Y)	-0.00019	-0.00018	-0.00017
	(!A0 * A1 * !B1 * !Y)	0.00023	0.00023	0.00024
	(!A0 * A1 * !B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !Y)	-0.00019	-0.00018	-0.00017

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X0P7H7H	(A0 * A1 * B0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B0 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * Y)	0.00033	0.00033	0.00033
	(A0 * A1 * !B0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * Y)	-0.00003	-0.00002	-0.00002
	(A0 * A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * Y)	0.00030	0.00030	0.00031
	(!A1 * !B0 * !Y)	-0.00029	-0.00028	-0.00028
	(!A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !Y)	0.00002	0.00003	0.00003
	(!A1 * !B0 * !Y)	0.00003	0.00003	0.00004
	(!A0 * A1 * !B0 * !Y)	-0.00029	-0.00028	-0.00028
	(!A0 * A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * !Y)	0.00002	0.00002	0.00003
	(!A0 * A1 * !B0 * !Y)	0.00003	0.00003	0.00004

Passive power(pJ) for B1 falling (conditional):

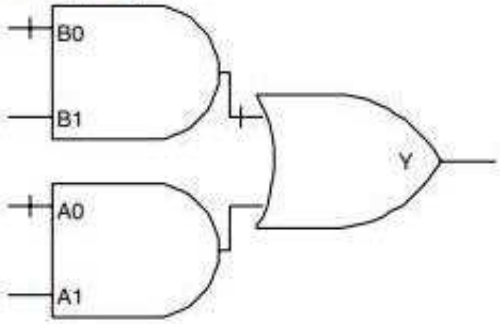
Cell Name	When	Power(pJ)		
		min	avg	max
AO22X0P7H7H	(A0 * A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * Y)	0.00003	0.00003	0.00004
	(A0 * A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * Y)	-0.00033	-0.00033	-0.00032
	(A0 * A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * Y)	0.00002	0.00002	0.00003
	(A0 * A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * Y)	-0.00030	-0.00030	-0.00029
	(!A1 * !B0 * !Y)	0.00028	0.00028	0.00029
	(!A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !Y)	-0.00004	-0.00003	-0.00003
	(!A0 * A1 * !B0 * !Y)	0.00028	0.00028	0.00029
	(!A0 * A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * A1 * !B0 * !Y)	-0.00003	-0.00003	-0.00003

AO22X1H7H

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

Cell Description

The AO22 cell provides the logical OR of two AND groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	Y
0	x	0	x	0
0	x	1	0	0
x	x	1	1	1
1	0	0	x	0
1	0	1	0	0
1	1	x	x	1

Footprint

Cell Name	Area
AO22X1H7H	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	B1	Y
AO22X1H7H	0.00076	0.00087	0.00089	0.00092	0.04149

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO22X1H7H	0.00000	0.01895	0.02645

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO22X1H7H	A0->Y (RR)	0.08857	0.26839	0.71063
	A1->Y (RR)	0.08754	0.26656	0.70362
	B0->Y (RR)	0.08047	0.25581	0.68600
	B1->Y (RR)	0.07802	0.25237	0.67745

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO22X1H7H	A0->Y (FF)	0.12219	0.28005	0.65790
	A1->Y (FF)	0.11698	0.27258	0.64540
	B0->Y (FF)	0.11071	0.26104	0.62393
	B1->Y (FF)	0.10382	0.25190	0.60904

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO22X1H7H	A0	0.00048	0.00054	0.00060
	A0	0.00011	0.00011	0.00011
	A0	-0.00006	-0.00006	-0.00005
	A0	0.00193	0.00199	0.00205
	A1	0.00046	0.00052	0.00059
	A1	0.00011	0.00011	0.00011
	A1	-0.00002	-0.00002	-0.00002
	A1	0.00173	0.00179	0.00186
	B0	0.00048	0.00055	0.00062
	B0	0.00002	0.00002	0.00002
	B0	-0.00006	-0.00006	-0.00005
	B0	0.00167	0.00175	0.00181
	B1	0.00048	0.00055	0.00062
	B1	0.00002	0.00002	0.00002
	B1	-0.00002	-0.00002	-0.00001
	B1	0.00148	0.00155	0.00162

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO22X1H7H	A0	0.00202	0.00208	0.00213
	A0	-0.00010	-0.00010	-0.00010
	A0	0.00009	0.00009	0.00009
	A0	0.00055	0.00060	0.00065
	A1	0.00192	0.00198	0.00204
	A1	-0.00010	-0.00010	-0.00010
	A1	0.00005	0.00006	0.00006
	A1	0.00060	0.00066	0.00073
	B0	0.00160	0.00166	0.00173
	B0	-0.00002	-0.00002	-0.00001
	B0	0.00009	0.00009	0.00009
	B0	0.00045	0.00051	0.00058
	B1	0.00146	0.00153	0.00161
	B1	-0.00002	-0.00002	0.00000
	B1	0.00005	0.00006	0.00006
	B1	0.00049	0.00056	0.00063

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X1H7H	(A1 * B0 * B1 * Y)	-0.00010	-0.00008	-0.00006
	(A1 * B0 * B1 * Y)	-0.00003	-0.00002	-0.00002
	(A1 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * Y)	0.00028	0.00028	0.00029
	(!A1 * B0 * B1 * Y)	-0.00014	-0.00014	-0.00014
	(!A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * Y)	0.00024	0.00024	0.00024
	(!A1 * !B1 * !Y)	-0.00014	-0.00014	-0.00014
	(!A1 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !Y)	0.00024	0.00024	0.00024
	(!A1 * !B0 * B1 * !Y)	-0.00014	-0.00014	-0.00014
	(!A1 * !B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !Y)	0.00024	0.00024	0.00024

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X1H7H	(A1 * B0 * B1 * Y)	0.00009	0.00010	0.00010
	(A1 * B0 * B1 * Y)	0.00002	0.00002	0.00003
	(A1 * B0 * B1 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * Y)	-0.00028	-0.00028	-0.00027
	(!A1 * B0 * B1 * Y)	0.00014	0.00014	0.00014
	(!A1 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * Y)	-0.00024	-0.00023	-0.00022
	(!A1 * !B1 * !Y)	0.00014	0.00015	0.00015
	(!A1 * !B1 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !Y)	-0.00024	-0.00023	-0.00021
	(!A1 * !B0 * B1 * !Y)	0.00014	0.00015	0.00015
	(!A1 * !B0 * B1 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !Y)	-0.00024	-0.00023	-0.00021

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X1H7H	(A0 * B0 * B1 * Y)	-0.00011	-0.00009	-0.00006
	(A0 * B0 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * Y)	0.00024	0.00025	0.00025
	(!A0 * B0 * B1 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * Y)	0.00020	0.00020	0.00020
	(!A0 * !B1 * !Y)	-0.00024	-0.00024	-0.00024
	(!A0 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !B1 * !Y)	0.00006	0.00006	0.00006
	(!A0 * !B0 * B1 * !Y)	-0.00024	-0.00024	-0.00024
	(!A0 * !B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * B1 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !B0 * B1 * !Y)	0.00005	0.00006	0.00006

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X1H7H	(A0 * B0 * B1 * Y)	0.00011	0.00011	0.00011
	(A0 * B0 * B1 * Y)	0.00002	0.00002	0.00002
	(A0 * B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * Y)	-0.00024	-0.00024	-0.00024
	(!A0 * B0 * B1 * Y)	0.00016	0.00016	0.00016
	(!A0 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * Y)	-0.00020	-0.00019	-0.00018
	(!A0 * !B1 * !Y)	0.00024	0.00024	0.00024
	(!A0 * !B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * !B1 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !B0 * B1 * !Y)	0.00024	0.00024	0.00024
	(!A0 * !B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * B1 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * !B0 * B1 * !Y)	-0.00006	-0.00006	-0.00005

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X1H7H	(A0 * A1 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * A1 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * Y)	0.00036	0.00036	0.00036
	(A0 * A1 * !B1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * A1 * !B1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * Y)	0.00033	0.00033	0.00033
	(!A1 * !B1 * !Y)	-0.00023	-0.00023	-0.00023
	(!A1 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B1 * !Y)	0.00018	0.00019	0.00019
	(!A0 * A1 * !B1 * !Y)	-0.00023	-0.00023	-0.00023
	(!A0 * A1 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B1 * !Y)	0.00019	0.00019	0.00020

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X1H7H	(A0 * A1 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * Y)	0.00002	0.00003	0.00003
	(A0 * A1 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * Y)	-0.00036	-0.00036	-0.00035
	(A0 * A1 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * Y)	0.00002	0.00003	0.00003
	(A0 * A1 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * Y)	-0.00033	-0.00033	-0.00032
	(!A1 * !B1 * !Y)	0.00023	0.00023	0.00024
	(!A1 * !B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !Y)	-0.00002	-0.00001	-0.00001
	(!A1 * !B1 * !Y)	-0.00019	-0.00018	-0.00016
	(!A0 * A1 * !B1 * !Y)	0.00023	0.00023	0.00024
	(!A0 * A1 * !B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B1 * !Y)	-0.00019	-0.00018	-0.00016

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X1H7H	(A0 * A1 * B0 * Y)	-0.00001	-0.00000	0.00000
	(A0 * A1 * B0 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * Y)	0.00033	0.00033	0.00033
	(A0 * A1 * !B0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * Y)	-0.00003	-0.00002	-0.00002
	(A0 * A1 * !B0 * Y)	0.00001	0.00001	0.00002
	(A0 * A1 * !B0 * Y)	0.00030	0.00030	0.00030
	(!A1 * !B0 * !Y)	-0.00028	-0.00028	-0.00028
	(!A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !Y)	0.00002	0.00003	0.00003
	(!A1 * !B0 * !Y)	0.00003	0.00003	0.00004
	(!A0 * A1 * !B0 * !Y)	-0.00028	-0.00028	-0.00028
	(!A0 * A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * A1 * !B0 * !Y)	0.00003	0.00003	0.00003

Passive power(pJ) for B1 falling (conditional):

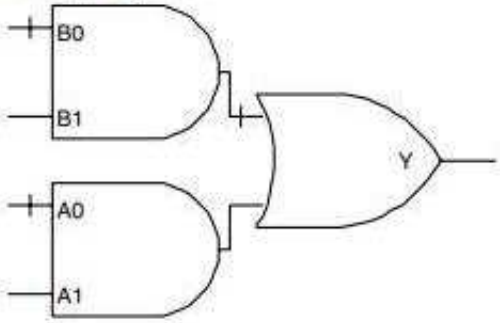
Cell Name	When	Power(pJ)		
		min	avg	max
AO22X1H7H	(A0 * A1 * B0 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * B0 * Y)	0.00002	0.00003	0.00003
	(A0 * A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * Y)	-0.00033	-0.00033	-0.00033
	(A0 * A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * Y)	0.00002	0.00003	0.00003
	(A0 * A1 * !B0 * Y)	-0.00002	-0.00001	-0.00001
	(A0 * A1 * !B0 * Y)	-0.00030	-0.00030	-0.00028
	(!A1 * !B0 * !Y)	0.00028	0.00028	0.00028
	(!A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !Y)	-0.00003	-0.00002	-0.00002
	(!A1 * !B0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * !B0 * !Y)	0.00028	0.00028	0.00028
	(!A0 * A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B0 * !Y)	-0.00003	-0.00003	-0.00003

AO22X1P4H7H

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

Cell Description

The AO22 cell provides the logical OR of two AND groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	Y
0	x	0	x	0
0	x	1	0	0
x	x	1	1	1
1	0	0	x	0
1	0	1	0	0
1	1	x	x	1

Footprint

Cell Name	Area
AO22X1P4H7H	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	B1	Y
AO22X1P4H7H	0.00075	0.00087	0.00090	0.00094	0.04704

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO22X1P4H7H	0.00000	0.02141	0.03187

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO22X1P4H7H	A0->Y (RR)	0.08891	0.26947	0.71237
	A1->Y (RR)	0.08802	0.26785	0.70638
	B0->Y (RR)	0.08085	0.25697	0.68851
	B1->Y (RR)	0.07843	0.25376	0.68032

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO22X1P4H7H	A0->Y (FF)	0.12402	0.28381	0.66494
	A1->Y (FF)	0.11886	0.27645	0.65290
	B0->Y (FF)	0.11261	0.26496	0.63233
	B1->Y (FF)	0.10581	0.25596	0.61732

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO22X1P4H7H	A0	0.00053	0.00059	0.00065
	A0	0.00008	0.00010	0.00011
	A0	-0.00005	-0.00005	-0.00004
	A0	0.00198	0.00204	0.00210
	A1	0.00051	0.00058	0.00065
	A1	0.00010	0.00010	0.00010
	A1	-0.00001	-0.00001	0.00000
	A1	0.00177	0.00184	0.00191
	B0	0.00052	0.00060	0.00067
	B0	0.00000	0.00001	0.00002
	B0	-0.00005	-0.00005	-0.00005
	B0	0.00171	0.00179	0.00186
	B1	0.00053	0.00060	0.00068
	B1	0.00001	0.00001	0.00002
	B1	-0.00001	-0.00001	-0.00001
	B1	0.00153	0.00160	0.00168

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO22X1P4H7H	A0	0.00207	0.00213	0.00218
	A0	-0.00011	-0.00010	-0.00008
	A0	0.00009	0.00009	0.00009
	A0	0.00060	0.00066	0.00071
	A1	0.00197	0.00203	0.00210
	A1	-0.00010	-0.00010	-0.00009
	A1	0.00005	0.00005	0.00005
	A1	0.00065	0.00072	0.00078
	B0	0.00164	0.00171	0.00178
	B0	-0.00001	-0.00001	-0.00000
	B0	0.00009	0.00009	0.00009
	B0	0.00051	0.00057	0.00064
	B1	0.00151	0.00158	0.00166
	B1	-0.00001	-0.00001	-0.00001
	B1	0.00005	0.00005	0.00005
	B1	0.00054	0.00061	0.00069

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X1P4H7H	(A1 * B0 * B1 * Y)	-0.00010	-0.00008	-0.00006
	(A1 * B0 * B1 * Y)	-0.00003	-0.00002	-0.00002
	(A1 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * Y)	0.00028	0.00028	0.00029
	(!A1 * B0 * B1 * Y)	-0.00014	-0.00014	-0.00014
	(!A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * Y)	0.00024	0.00024	0.00024
	(!A1 * !B1 * !Y)	-0.00014	-0.00014	-0.00014
	(!A1 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !Y)	0.00023	0.00024	0.00024
	(!A1 * !B0 * B1 * !Y)	-0.00014	-0.00014	-0.00014
	(!A1 * !B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !Y)	0.00023	0.00024	0.00024

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X1P4H7H	(A1 * B0 * B1 * Y)	0.00009	0.00010	0.00010
	(A1 * B0 * B1 * Y)	0.00002	0.00002	0.00003
	(A1 * B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * Y)	-0.00028	-0.00028	-0.00027
	(!A1 * B0 * B1 * Y)	0.00014	0.00014	0.00014
	(!A1 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * Y)	-0.00024	-0.00023	-0.00023
	(!A1 * !B1 * !Y)	0.00014	0.00014	0.00015
	(!A1 * !B1 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !Y)	-0.00024	-0.00023	-0.00021
	(!A1 * !B0 * B1 * !Y)	0.00014	0.00014	0.00015
	(!A1 * !B0 * B1 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !Y)	-0.00024	-0.00023	-0.00021

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X1P4H7H	(A0 * B0 * B1 * Y)	-0.00011	-0.00009	-0.00006
	(A0 * B0 * B1 * Y)	-0.00003	-0.00002	-0.00002
	(A0 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * Y)	0.00024	0.00025	0.00025
	(!A0 * B0 * B1 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * Y)	0.00020	0.00020	0.00020
	(!A0 * !B1 * !Y)	-0.00024	-0.00024	-0.00024
	(!A0 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !B1 * !Y)	0.00005	0.00006	0.00006
	(!A0 * !B0 * B1 * !Y)	-0.00024	-0.00024	-0.00024
	(!A0 * !B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * B1 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !B0 * B1 * !Y)	0.00005	0.00006	0.00006

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X1P4H7H	(A0 * B0 * B1 * Y)	0.00010	0.00011	0.00011
	(A0 * B0 * B1 * Y)	0.00002	0.00002	0.00003
	(A0 * B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * Y)	-0.00024	-0.00024	-0.00024
	(!A0 * B0 * B1 * Y)	0.00016	0.00016	0.00016
	(!A0 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * Y)	-0.00020	-0.00019	-0.00018
	(!A0 * !B1 * !Y)	0.00024	0.00024	0.00024
	(!A0 * !B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * !B1 * !Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !B0 * B1 * !Y)	0.00024	0.00024	0.00024
	(!A0 * !B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * B1 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * !B0 * B1 * !Y)	-0.00006	-0.00006	-0.00005

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X1P4H7H	(A0 * A1 * B1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * Y)	0.00036	0.00036	0.00036
	(A0 * A1 * !B1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * A1 * !B1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * Y)	0.00033	0.00033	0.00033
	(!A1 * !B1 * !Y)	-0.00023	-0.00023	-0.00023
	(!A1 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B1 * !Y)	0.00018	0.00019	0.00019
	(!A0 * A1 * !B1 * !Y)	-0.00023	-0.00023	-0.00023
	(!A0 * A1 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !Y)	0.00000	0.00001	0.00002
	(!A0 * A1 * !B1 * !Y)	0.00018	0.00019	0.00019

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X1P4H7H	(A0 * A1 * B1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * Y)	-0.00036	-0.00036	-0.00035
	(A0 * A1 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * Y)	0.00002	0.00003	0.00003
	(A0 * A1 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * Y)	-0.00033	-0.00033	-0.00032
	(!A1 * !B1 * !Y)	0.00023	0.00023	0.00024
	(!A1 * !B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !Y)	-0.00002	-0.00001	-0.00001
	(!A1 * !B1 * !Y)	-0.00019	-0.00018	-0.00017
	(!A0 * A1 * !B1 * !Y)	0.00023	0.00023	0.00024
	(!A0 * A1 * !B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !Y)	-0.00002	-0.00001	-0.00000
	(!A0 * A1 * !B1 * !Y)	-0.00019	-0.00018	-0.00017

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X1P4H7H	(A0 * A1 * B0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B0 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * Y)	0.00033	0.00034	0.00034
	(A0 * A1 * !B0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * Y)	-0.00003	-0.00002	-0.00002
	(A0 * A1 * !B0 * Y)	0.00001	0.00001	0.00002
	(A0 * A1 * !B0 * Y)	0.00031	0.00031	0.00031
	(!A1 * !B0 * !Y)	-0.00029	-0.00029	-0.00029
	(!A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !Y)	0.00002	0.00003	0.00003
	(!A1 * !B0 * !Y)	0.00003	0.00003	0.00004
	(!A0 * A1 * !B0 * !Y)	-0.00029	-0.00029	-0.00029
	(!A0 * A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * A1 * !B0 * !Y)	0.00003	0.00003	0.00004

Passive power(pJ) for B1 falling (conditional):

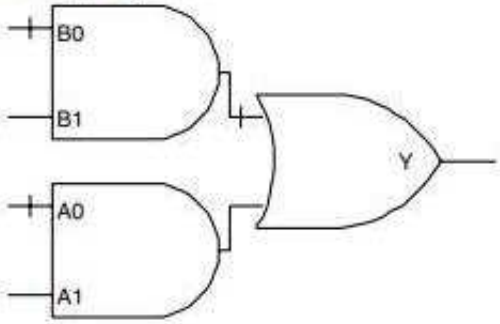
Cell Name	When	Power(pJ)		
		min	avg	max
AO22X1P4H7H	(A0 * A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * Y)	-0.00034	-0.00033	-0.00033
	(A0 * A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * Y)	0.00002	0.00003	0.00003
	(A0 * A1 * !B0 * Y)	-0.00002	-0.00001	-0.00001
	(A0 * A1 * !B0 * Y)	-0.00031	-0.00030	-0.00029
	(!A1 * !B0 * !Y)	0.00029	0.00029	0.00029
	(!A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !Y)	-0.00003	-0.00002	-0.00002
	(!A1 * !B0 * !Y)	-0.00004	-0.00003	-0.00003
	(!A0 * A1 * !B0 * !Y)	0.00029	0.00029	0.00029
	(!A0 * A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * A1 * !B0 * !Y)	-0.00004	-0.00003	-0.00003

AO22X2H7H

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

Cell Description

The AO22 cell provides the logical OR of two AND groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	Y
0	x	0	x	0
0	x	1	0	0
x	x	1	1	1
1	0	0	x	0
1	0	1	0	0
1	1	x	x	1

Footprint

Cell Name	Area
AO22X2H7H	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	B1	Y
AO22X2H7H	0.00075	0.00088	0.00092	0.00092	0.05459

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO22X2H7H	0.00000	0.01833	0.02304

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO22X2H7H	A0->Y (RR)	0.10005	0.28349	0.73338
	A1->Y (RR)	0.09927	0.28260	0.72970
	B0->Y (RR)	0.09168	0.27131	0.71061
	B1->Y (RR)	0.08881	0.26831	0.70464

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO22X2H7H	A0->Y (FF)	0.13502	0.28708	0.64610
	A1->Y (FF)	0.13006	0.28013	0.63452
	B0->Y (FF)	0.12392	0.26885	0.61566
	B1->Y (FF)	0.11612	0.25935	0.60119

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO22X2H7H	A0	0.00077	0.00085	0.00093
	A0	0.00009	0.00010	0.00010
	A0	-0.00004	-0.00004	-0.00003
	A0	0.00219	0.00227	0.00235
	A1	0.00075	0.00083	0.00093
	A1	0.00009	0.00010	0.00010
	A1	-0.00000	-0.00000	0.00001
	A1	0.00200	0.00208	0.00218
	B0	0.00075	0.00085	0.00094
	B0	0.00000	0.00001	0.00001
	B0	-0.00004	-0.00004	-0.00004
	B0	0.00193	0.00203	0.00212
	B1	0.00077	0.00086	0.00096
	B1	0.00000	0.00001	0.00001
	B1	-0.00000	-0.00000	0.00001
	B1	0.00173	0.00182	0.00192

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO22X2H7H	A0	0.00235	0.00241	0.00248
	A0	-0.00009	-0.00009	-0.00009
	A0	0.00008	0.00008	0.00008
	A0	0.00090	0.00096	0.00103
	A1	0.00225	0.00233	0.00241
	A1	-0.00009	-0.00009	-0.00008
	A1	0.00004	0.00004	0.00004
	A1	0.00094	0.00102	0.00110
	B0	0.00193	0.00200	0.00209
	B0	-0.00001	-0.00001	0.00000
	B0	0.00008	0.00008	0.00008
	B0	0.00079	0.00087	0.00096
	B1	0.00178	0.00186	0.00195
	B1	-0.00001	-0.00000	0.00000
	B1	0.00004	0.00004	0.00004
	B1	0.00084	0.00092	0.00101

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X2H7H	(A1 * B0 * B1 * Y)	-0.00010	-0.00008	-0.00007
	(A1 * B0 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * B1 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * B1 * Y)	0.00027	0.00028	0.00028
	(!A1 * B0 * B1 * Y)	-0.00014	-0.00014	-0.00014
	(!A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * Y)	0.00023	0.00023	0.00023
	(!A1 * !B1 * !Y)	-0.00014	-0.00014	-0.00014
	(!A1 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !Y)	0.00023	0.00024	0.00024
	(!A1 * !B0 * B1 * !Y)	-0.00014	-0.00014	-0.00014
	(!A1 * !B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !Y)	0.00023	0.00024	0.00024

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X2H7H	(A1 * B0 * B1 * Y)	0.00009	0.00010	0.00010
	(A1 * B0 * B1 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * Y)	-0.00027	-0.00027	-0.00027
	(!A1 * B0 * B1 * Y)	0.00014	0.00014	0.00014
	(!A1 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * Y)	-0.00023	-0.00023	-0.00022
	(!A1 * !B1 * !Y)	0.00014	0.00014	0.00015
	(!A1 * !B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !Y)	-0.00024	-0.00023	-0.00021
	(!A1 * !B0 * B1 * !Y)	0.00014	0.00014	0.00015
	(!A1 * !B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !Y)	-0.00024	-0.00023	-0.00021

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X2H7H	(A0 * B0 * B1 * Y)	-0.00011	-0.00009	-0.00006
	(A0 * B0 * B1 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * Y)	0.00024	0.00025	0.00025
	(!A0 * B0 * B1 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * Y)	0.00020	0.00020	0.00020
	(!A0 * !B1 * !Y)	-0.00024	-0.00024	-0.00024
	(!A0 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !B1 * !Y)	0.00005	0.00006	0.00006
	(!A0 * !B0 * B1 * !Y)	-0.00024	-0.00024	-0.00024
	(!A0 * !B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * B1 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !B0 * B1 * !Y)	0.00005	0.00006	0.00006

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X2H7H	(A0 * B0 * B1 * Y)	0.00010	0.00011	0.00011
	(A0 * B0 * B1 * Y)	0.00002	0.00003	0.00003
	(A0 * B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * Y)	-0.00024	-0.00024	-0.00024
	(!A0 * B0 * B1 * Y)	0.00016	0.00016	0.00017
	(!A0 * B0 * B1 * Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * Y)	-0.00020	-0.00019	-0.00018
	(!A0 * !B1 * !Y)	0.00024	0.00024	0.00024
	(!A0 * !B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * !B1 * !Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !B0 * B1 * !Y)	0.00024	0.00024	0.00024
	(!A0 * !B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * B1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !B0 * B1 * !Y)	-0.00006	-0.00006	-0.00005

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X2H7H	(A0 * A1 * B1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * A1 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * Y)	0.00037	0.00037	0.00037
	(A0 * A1 * !B1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B1 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * A1 * !B1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * Y)	0.00034	0.00034	0.00034
	(!A1 * !B1 * !Y)	-0.00025	-0.00024	-0.00024
	(!A1 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B1 * !Y)	0.00018	0.00019	0.00019
	(!A0 * A1 * !B1 * !Y)	-0.00025	-0.00024	-0.00024
	(!A0 * A1 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * !B1 * !Y)	0.00018	0.00019	0.00019

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X2H7H	(A0 * A1 * B1 * Y)	-0.00000	0.00000	0.00001
	(A0 * A1 * B1 * Y)	0.00002	0.00003	0.00003
	(A0 * A1 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * Y)	-0.00037	-0.00036	-0.00036
	(A0 * A1 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * Y)	-0.00034	-0.00034	-0.00033
	(!A1 * !B1 * !Y)	0.00025	0.00025	0.00025
	(!A1 * !B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !Y)	-0.00019	-0.00018	-0.00017
	(!A0 * A1 * !B1 * !Y)	0.00025	0.00025	0.00025
	(!A0 * A1 * !B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !Y)	-0.00019	-0.00018	-0.00017

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X2H7H	(A0 * A1 * B0 * Y)	-0.00001	-0.00000	0.00000
	(A0 * A1 * B0 * Y)	-0.00003	-0.00002	-0.00002
	(A0 * A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * Y)	0.00032	0.00032	0.00032
	(A0 * A1 * !B0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * Y)	0.00029	0.00029	0.00029
	(!A1 * !B0 * !Y)	-0.00028	-0.00028	-0.00028
	(!A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !Y)	0.00002	0.00002	0.00003
	(!A1 * !B0 * !Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * !B0 * !Y)	-0.00028	-0.00028	-0.00028
	(!A0 * A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * !Y)	0.00001	0.00002	0.00003
	(!A0 * A1 * !B0 * !Y)	0.00003	0.00003	0.00004

Passive power(pJ) for B1 falling (conditional):

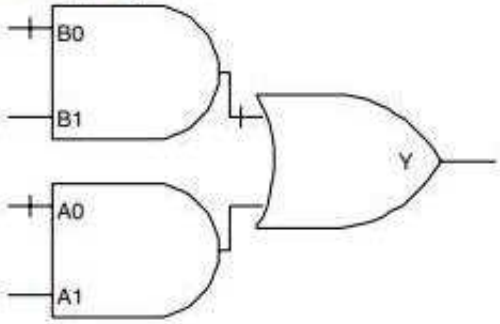
Cell Name	When	Power(pJ)		
		min	avg	max
AO22X2H7H	(A0 * A1 * B0 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * B0 * Y)	0.00002	0.00003	0.00003
	(A0 * A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * Y)	-0.00032	-0.00032	-0.00032
	(A0 * A1 * !B0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * Y)	0.00002	0.00003	0.00003
	(A0 * A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * Y)	-0.00029	-0.00029	-0.00027
	(!A1 * !B0 * !Y)	0.00028	0.00028	0.00028
	(!A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * A1 * !B0 * !Y)	0.00028	0.00028	0.00028
	(!A0 * A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * !B0 * !Y)	-0.00004	-0.00003	-0.00003

AO22X3H7H

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

Cell Description

The AO22 cell provides the logical OR of two AND groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	Y
0	x	0	x	0
0	x	1	0	0
x	x	1	1	1
1	0	0	x	0
1	0	1	0	0
1	1	x	x	1

Footprint

Cell Name	Area
AO22X3H7H	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	B1	Y
AO22X3H7H	0.00085	0.00096	0.00101	0.00102	0.08640

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO22X3H7H	0.00000	0.03311	0.03931

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO22X3H7H	A0->Y (RR)	0.09087	0.27823	0.73437
	A1->Y (RR)	0.08944	0.27502	0.72477
	B0->Y (RR)	0.08299	0.26657	0.71206
	B1->Y (RR)	0.08015	0.26204	0.70133

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO22X3H7H	A0->Y (FF)	0.12607	0.28987	0.67580
	A1->Y (FF)	0.12103	0.28295	0.66472
	B0->Y (FF)	0.11600	0.27342	0.64801
	B1->Y (FF)	0.10915	0.26479	0.63470

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO22X3H7H	A0	0.00098	0.00108	0.00118
	A0	0.00012	0.00012	0.00012
	A0	-0.00005	-0.00005	-0.00005
	A0	0.00261	0.00271	0.00281
	A1	0.00096	0.00106	0.00117
	A1	0.00012	0.00012	0.00013
	A1	0.00000	0.00000	0.00002
	A1	0.00237	0.00247	0.00259
	B0	0.00096	0.00108	0.00119
	B0	0.00000	0.00000	0.00001
	B0	-0.00005	-0.00005	-0.00004
	B0	0.00228	0.00240	0.00251
	B1	0.00097	0.00109	0.00120
	B1	0.00000	0.00000	0.00001
	B1	0.00000	0.00000	0.00001
	B1	0.00206	0.00217	0.00229

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO22X3H7H	A0	0.00276	0.00285	0.00294
	A0	-0.00011	-0.00011	-0.00011
	A0	0.00009	0.00010	0.00010
	A0	0.00110	0.00119	0.00128
	A1	0.00263	0.00273	0.00283
	A1	-0.00011	-0.00011	-0.00011
	A1	0.00005	0.00005	0.00005
	A1	0.00115	0.00125	0.00136
	B0	0.00228	0.00238	0.00250
	B0	-0.00000	-0.00000	0.00000
	B0	0.00009	0.00010	0.00010
	B0	0.00102	0.00112	0.00124
	B1	0.00211	0.00222	0.00234
	B1	-0.00000	-0.00000	0.00000
	B1	0.00004	0.00005	0.00005
	B1	0.00106	0.00117	0.00128

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X3H7H	(A1 * B0 * B1 * Y)	-0.00012	-0.00010	-0.00008
	(A1 * B0 * B1 * Y)	-0.00003	-0.00003	-0.00002
	(A1 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * Y)	0.00030	0.00030	0.00031
	(!A1 * B0 * B1 * Y)	-0.00017	-0.00017	-0.00017
	(!A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * B1 * Y)	0.00025	0.00026	0.00026
	(!A1 * !B1 * !Y)	-0.00017	-0.00017	-0.00017
	(!A1 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B1 * !Y)	0.00026	0.00026	0.00026
	(!A1 * !B0 * B1 * !Y)	-0.00017	-0.00017	-0.00017
	(!A1 * !B0 * B1 * !Y)	-0.00002	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * B1 * !Y)	0.00026	0.00026	0.00026

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X3H7H	(A1 * B0 * B1 * Y)	0.00011	0.00012	0.00013
	(A1 * B0 * B1 * Y)	0.00002	0.00003	0.00003
	(A1 * B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * Y)	-0.00030	-0.00030	-0.00029
	(!A1 * B0 * B1 * Y)	0.00017	0.00017	0.00017
	(!A1 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * B1 * Y)	-0.00026	-0.00025	-0.00024
	(!A1 * !B1 * !Y)	0.00017	0.00017	0.00018
	(!A1 * !B1 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B1 * !Y)	-0.00026	-0.00025	-0.00023
	(!A1 * !B0 * B1 * !Y)	0.00017	0.00017	0.00018
	(!A1 * !B0 * B1 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * B1 * !Y)	-0.00002	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !Y)	-0.00026	-0.00025	-0.00023

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X3H7H	(A0 * B0 * B1 * Y)	-0.00013	-0.00011	-0.00007
	(A0 * B0 * B1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * B1 * Y)	0.00000	0.00001	0.00001
	(A0 * B0 * B1 * Y)	0.00026	0.00026	0.00027
	(!A0 * B0 * B1 * Y)	-0.00020	-0.00019	-0.00018
	(!A0 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * B1 * Y)	0.00002	0.00002	0.00002
	(!A0 * B0 * B1 * Y)	0.00021	0.00021	0.00022
	(!A0 * !B1 * !Y)	-0.00028	-0.00027	-0.00027
	(!A0 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !B1 * !Y)	0.00006	0.00006	0.00006
	(!A0 * !B0 * B1 * !Y)	-0.00028	-0.00027	-0.00027
	(!A0 * !B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * B1 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !B0 * B1 * !Y)	0.00006	0.00006	0.00006

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X3H7H	(A0 * B0 * B1 * Y)	0.00013	0.00013	0.00013
	(A0 * B0 * B1 * Y)	0.00003	0.00003	0.00003
	(A0 * B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * Y)	-0.00026	-0.00026	-0.00026
	(!A0 * B0 * B1 * Y)	0.00019	0.00019	0.00020
	(!A0 * B0 * B1 * Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * B0 * B1 * Y)	-0.00021	-0.00020	-0.00019
	(!A0 * !B1 * !Y)	0.00027	0.00028	0.00028
	(!A0 * !B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !B1 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !B0 * B1 * !Y)	0.00027	0.00028	0.00028
	(!A0 * !B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * B1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !B0 * B1 * !Y)	-0.00006	-0.00006	-0.00006

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X3H7H	(A0 * A1 * B1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * Y)	-0.00004	-0.00004	-0.00003
	(A0 * A1 * B1 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B1 * Y)	0.00039	0.00039	0.00039
	(A0 * A1 * !B1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * Y)	-0.00004	-0.00003	-0.00003
	(A0 * A1 * !B1 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B1 * Y)	0.00036	0.00036	0.00036
	(!A1 * !B1 * !Y)	-0.00027	-0.00027	-0.00027
	(!A1 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !Y)	0.00000	0.00001	0.00002
	(!A1 * !B1 * !Y)	0.00020	0.00020	0.00021
	(!A0 * A1 * !B1 * !Y)	-0.00027	-0.00027	-0.00027
	(!A0 * A1 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * !B1 * !Y)	0.00020	0.00020	0.00020

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X3H7H	(A0 * A1 * B1 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * B1 * Y)	0.00003	0.00004	0.00004
	(A0 * A1 * B1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * B1 * Y)	-0.00039	-0.00039	-0.00038
	(A0 * A1 * !B1 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * !B1 * Y)	0.00003	0.00003	0.00004
	(A0 * A1 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B1 * Y)	-0.00036	-0.00035	-0.00034
	(!A1 * !B1 * !Y)	0.00027	0.00028	0.00028
	(!A1 * !B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !Y)	-0.00002	-0.00001	-0.00000
	(!A1 * !B1 * !Y)	-0.00020	-0.00019	-0.00018
	(!A0 * A1 * !B1 * !Y)	0.00027	0.00028	0.00028
	(!A0 * A1 * !B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * !B1 * !Y)	-0.00020	-0.00019	-0.00018

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X3H7H	(A0 * A1 * B0 * Y)	-0.00001	-0.00000	-0.00000
	(A0 * A1 * B0 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * A1 * B0 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B0 * Y)	0.00036	0.00036	0.00036
	(A0 * A1 * !B0 * Y)	-0.00000	0.00000	0.00001
	(A0 * A1 * !B0 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * A1 * !B0 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * Y)	0.00033	0.00033	0.00033
	(!A1 * !B0 * !Y)	-0.00032	-0.00032	-0.00032
	(!A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * !Y)	0.00003	0.00003	0.00004
	(!A0 * A1 * !B0 * !Y)	-0.00032	-0.00032	-0.00032
	(!A0 * A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * !Y)	0.00003	0.00003	0.00004
	(!A0 * A1 * !B0 * !Y)	0.00003	0.00003	0.00003

Passive power(pJ) for B1 falling (conditional):

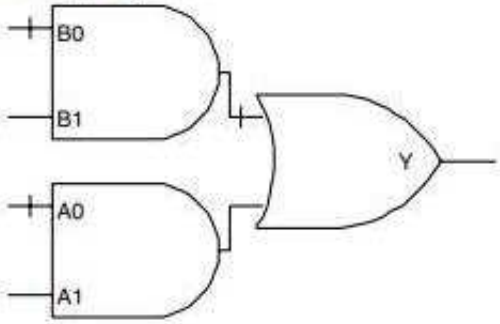
Cell Name	When	Power(pJ)		
		min	avg	max
AO22X3H7H	(A0 * A1 * B0 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * B0 * Y)	0.00002	0.00003	0.00004
	(A0 * A1 * B0 * Y)	-0.00001	-0.00000	-0.00000
	(A0 * A1 * B0 * Y)	-0.00036	-0.00036	-0.00035
	(A0 * A1 * !B0 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * !B0 * Y)	0.00002	0.00003	0.00003
	(A0 * A1 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * Y)	-0.00033	-0.00032	-0.00031
	(!A1 * !B0 * !Y)	0.00032	0.00032	0.00032
	(!A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * !B0 * !Y)	0.00032	0.00032	0.00032
	(!A0 * A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * A1 * !B0 * !Y)	-0.00003	-0.00003	-0.00003

AO22X4H7H

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

Cell Description

The AO22 cell provides the logical OR of two AND groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	Y
0	x	0	x	0
0	x	1	0	0
x	x	1	1	1
1	0	0	x	0
1	0	1	0	0
1	1	x	x	1

Footprint

Cell Name	Area
AO22X4H7H	3.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	B1	Y
AO22X4H7H	0.00094	0.00104	0.00110	0.00112	0.10881

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO22X4H7H	0.00000	0.04059	0.04970

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO22X4H7H	A0->Y (RR)	0.09217	0.28101	0.73989
	A1->Y (RR)	0.08973	0.27659	0.72880
	B0->Y (RR)	0.08360	0.26898	0.71836
	B1->Y (RR)	0.08091	0.26424	0.70678

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO22X4H7H	A0->Y (FF)	0.12480	0.28400	0.65676
	A1->Y (FF)	0.11929	0.27653	0.64472
	B0->Y (FF)	0.11429	0.26754	0.62940
	B1->Y (FF)	0.10810	0.25955	0.61687

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO22X4H7H	A0	0.00128	0.00141	0.00155
	A0	0.00014	0.00014	0.00014
	A0	-0.00005	-0.00005	-0.00005
	A0	0.00309	0.00321	0.00335
	A1	0.00127	0.00140	0.00155
	A1	0.00014	0.00014	0.00014
	A1	0.00001	0.00001	0.00001
	A1	0.00282	0.00295	0.00310
	B0	0.00127	0.00142	0.00155
	B0	-0.00001	-0.00000	0.00001
	B0	-0.00005	-0.00005	-0.00005
	B0	0.00272	0.00287	0.00301
	B1	0.00128	0.00142	0.00157
	B1	-0.00001	-0.00001	0.00000
	B1	0.00001	0.00001	0.00002
	B1	0.00246	0.00260	0.00275

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO22X4H7H	A0	0.00333	0.00344	0.00355
	A0	-0.00013	-0.00013	-0.00013
	A0	0.00011	0.00011	0.00011
	A0	0.00149	0.00161	0.00172
	A1	0.00315	0.00328	0.00340
	A1	-0.00013	-0.00013	-0.00013
	A1	0.00005	0.00005	0.00005
	A1	0.00153	0.00165	0.00178
	B0	0.00277	0.00289	0.00303
	B0	0.00000	0.00001	0.00003
	B0	0.00011	0.00011	0.00011
	B0	0.00139	0.00152	0.00165
	B1	0.00258	0.00271	0.00286
	B1	0.00000	0.00001	0.00001
	B1	0.00005	0.00005	0.00005
	B1	0.00144	0.00157	0.00171

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X4H7H	(A1 * B0 * B1 * Y)	-0.00015	-0.00013	-0.00010
	(A1 * B0 * B1 * Y)	-0.00004	-0.00003	-0.00003
	(A1 * B0 * B1 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * B1 * Y)	0.00030	0.00030	0.00031
	(!A1 * B0 * B1 * Y)	-0.00021	-0.00021	-0.00021
	(!A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * B1 * Y)	0.00025	0.00025	0.00025
	(!A1 * !B1 * !Y)	-0.00021	-0.00021	-0.00021
	(!A1 * !B1 * !Y)	-0.00002	-0.00001	-0.00001
	(!A1 * !B1 * !Y)	0.00002	0.00002	0.00002
	(!A1 * !B1 * !Y)	0.00025	0.00026	0.00026
	(!A1 * !B0 * B1 * !Y)	-0.00021	-0.00021	-0.00021
	(!A1 * !B0 * B1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * B1 * !Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * B1 * !Y)	0.00025	0.00026	0.00026

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X4H7H	(A1 * B0 * B1 * Y)	0.00014	0.00015	0.00015
	(A1 * B0 * B1 * Y)	0.00003	0.00003	0.00004
	(A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * B1 * Y)	-0.00030	-0.00030	-0.00029
	(!A1 * B0 * B1 * Y)	0.00021	0.00021	0.00021
	(!A1 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * B1 * Y)	-0.00025	-0.00024	-0.00023
	(!A1 * !B1 * !Y)	0.00021	0.00021	0.00022
	(!A1 * !B1 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B1 * !Y)	-0.00025	-0.00024	-0.00022
	(!A1 * !B0 * B1 * !Y)	0.00021	0.00021	0.00022
	(!A1 * !B0 * B1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * B1 * !Y)	-0.00025	-0.00024	-0.00023

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X4H7H	(A0 * B0 * B1 * Y)	-0.00015	-0.00012	-0.00009
	(A0 * B0 * B1 * Y)	-0.00004	-0.00003	-0.00003
	(A0 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * Y)	0.00028	0.00028	0.00029
	(!A0 * B0 * B1 * Y)	-0.00021	-0.00020	-0.00020
	(!A0 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * B1 * Y)	0.00002	0.00002	0.00002
	(!A0 * B0 * B1 * Y)	0.00023	0.00023	0.00024
	(!A0 * !B1 * !Y)	-0.00030	-0.00030	-0.00030
	(!A0 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * !Y)	0.00003	0.00004	0.00004
	(!A0 * !B1 * !Y)	0.00005	0.00006	0.00007
	(!A0 * !B0 * B1 * !Y)	-0.00030	-0.00030	-0.00029
	(!A0 * !B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * B1 * !Y)	0.00003	0.00004	0.00005
	(!A0 * !B0 * B1 * !Y)	0.00004	0.00006	0.00006

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X4H7H	(A0 * B0 * B1 * Y)	0.00014	0.00014	0.00015
	(A0 * B0 * B1 * Y)	0.00003	0.00003	0.00004
	(A0 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * Y)	-0.00028	-0.00028	-0.00028
	(!A0 * B0 * B1 * Y)	0.00020	0.00020	0.00021
	(!A0 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * B0 * B1 * Y)	-0.00024	-0.00022	-0.00021
	(!A0 * !B1 * !Y)	0.00030	0.00030	0.00030
	(!A0 * !B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * !Y)	-0.00004	-0.00004	-0.00003
	(!A0 * !B1 * !Y)	-0.00006	-0.00005	-0.00005
	(!A0 * !B0 * B1 * !Y)	0.00030	0.00030	0.00030
	(!A0 * !B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * B1 * !Y)	-0.00004	-0.00003	-0.00003
	(!A0 * !B0 * B1 * !Y)	-0.00006	-0.00005	-0.00004

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X4H7H	(A0 * A1 * B1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * Y)	-0.00005	-0.00004	-0.00004
	(A0 * A1 * B1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B1 * Y)	0.00042	0.00042	0.00042
	(A0 * A1 * !B1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B1 * Y)	-0.00004	-0.00004	-0.00003
	(A0 * A1 * !B1 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B1 * Y)	0.00039	0.00039	0.00039
	(!A1 * !B1 * !Y)	-0.00029	-0.00029	-0.00029
	(!A1 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !Y)	0.00002	0.00002	0.00003
	(!A1 * !B1 * !Y)	0.00022	0.00023	0.00023
	(!A0 * A1 * !B1 * !Y)	-0.00029	-0.00029	-0.00029
	(!A0 * A1 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !Y)	0.00002	0.00002	0.00003
	(!A0 * A1 * !B1 * !Y)	0.00022	0.00023	0.00023

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X4H7H	(A0 * A1 * B1 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * B1 * Y)	0.00004	0.00005	0.00005
	(A0 * A1 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B1 * Y)	-0.00042	-0.00042	-0.00041
	(A0 * A1 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * Y)	0.00004	0.00005	0.00005
	(A0 * A1 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B1 * Y)	-0.00039	-0.00038	-0.00037
	(!A1 * !B1 * !Y)	0.00029	0.00030	0.00030
	(!A1 * !B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B1 * !Y)	-0.00023	-0.00022	-0.00021
	(!A0 * A1 * !B1 * !Y)	0.00029	0.00030	0.00030
	(!A0 * A1 * !B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B1 * !Y)	-0.00023	-0.00022	-0.00020

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X4H7H	(A0 * A1 * B0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B0 * Y)	-0.00004	-0.00004	-0.00003
	(A0 * A1 * B0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * Y)	0.00038	0.00039	0.00039
	(A0 * A1 * !B0 * Y)	-0.00000	0.00000	0.00001
	(A0 * A1 * !B0 * Y)	-0.00005	-0.00004	-0.00003
	(A0 * A1 * !B0 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * Y)	0.00035	0.00035	0.00035
	(!A1 * !B0 * !Y)	-0.00036	-0.00035	-0.00035
	(!A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !Y)	0.00002	0.00004	0.00004
	(!A1 * !B0 * !Y)	0.00003	0.00003	0.00004
	(!A0 * A1 * !B0 * !Y)	-0.00036	-0.00035	-0.00035
	(!A0 * A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * !Y)	0.00002	0.00004	0.00004
	(!A0 * A1 * !B0 * !Y)	0.00003	0.00003	0.00004

Passive power(pJ) for B1 falling (conditional):

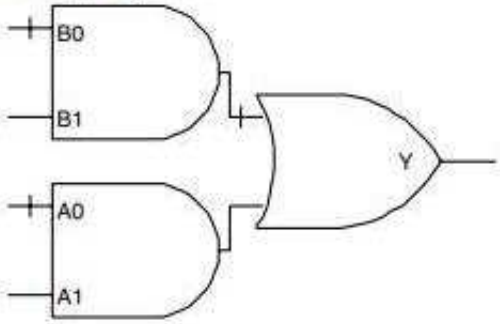
Cell Name	When	Power(pJ)		
		min	avg	max
AO22X4H7H	(A0 * A1 * B0 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * B0 * Y)	0.00003	0.00004	0.00004
	(A0 * A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B0 * Y)	-0.00039	-0.00038	-0.00038
	(A0 * A1 * !B0 * Y)	-0.00001	-0.00000	0.00000
	(A0 * A1 * !B0 * Y)	0.00004	0.00004	0.00006
	(A0 * A1 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * Y)	-0.00035	-0.00034	-0.00033
	(!A1 * !B0 * !Y)	0.00035	0.00035	0.00036
	(!A1 * !B0 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * !Y)	-0.00004	-0.00003	-0.00002
	(!A1 * !B0 * !Y)	-0.00004	-0.00003	-0.00003
	(!A0 * A1 * !B0 * !Y)	0.00035	0.00035	0.00036
	(!A0 * A1 * !B0 * !Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * !B0 * !Y)	-0.00004	-0.00003	-0.00002
	(!A0 * A1 * !B0 * !Y)	-0.00003	-0.00003	-0.00003

AO22X6H7H

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

Cell Description

The AO22 cell provides the logical OR of two AND groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	Y
0	x	0	x	0
0	x	1	0	0
x	x	1	1	1
1	0	0	x	0
1	0	1	0	0
1	1	x	x	1

Footprint

Cell Name	Area
AO22X6H7H	3.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	B1	Y
AO22X6H7H	0.00094	0.00104	0.00109	0.00112	0.16350

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO22X6H7H	0.00000	0.05549	0.06284

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO22X6H7H	A0->Y (RR)	0.10759	0.30322	0.77508
	A1->Y (RR)	0.10520	0.29951	0.76690
	B0->Y (RR)	0.09883	0.29175	0.75587
	B1->Y (RR)	0.09615	0.28769	0.74731

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO22X6H7H	A0->Y (FF)	0.14882	0.31835	0.71058
	A1->Y (FF)	0.14330	0.31119	0.69970
	B0->Y (FF)	0.13841	0.30300	0.68828
	B1->Y (FF)	0.13221	0.29529	0.67683

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO22X6H7H	A0	0.00204	0.00220	0.00241
	A0	0.00009	0.00009	0.00009
	A0	-0.00001	-0.00001	-0.00001
	A0	0.00376	0.00393	0.00413
	A1	0.00203	0.00219	0.00241
	A1	0.00009	0.00009	0.00009
	A1	0.00005	0.00005	0.00005
	A1	0.00350	0.00367	0.00388
	B0	0.00202	0.00222	0.00242
	B0	-0.00005	-0.00005	-0.00004
	B0	-0.00001	-0.00001	0.00000
	B0	0.00339	0.00359	0.00379
	B1	0.00203	0.00222	0.00243
	B1	-0.00005	-0.00005	-0.00004
	B1	0.00005	0.00005	0.00007
	B1	0.00313	0.00332	0.00353

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO22X6H7H	A0	0.00404	0.00420	0.00437
	A0	-0.00008	-0.00008	-0.00008
	A0	0.00007	0.00007	0.00007
	A0	0.00229	0.00246	0.00263
	A1	0.00387	0.00404	0.00422
	A1	-0.00008	-0.00008	-0.00008
	A1	0.00001	0.00001	0.00001
	A1	0.00232	0.00251	0.00269
	B0	0.00350	0.00366	0.00385
	B0	0.00005	0.00005	0.00007
	B0	0.00007	0.00007	0.00007
	B0	0.00219	0.00236	0.00256
	B1	0.00330	0.00348	0.00368
	B1	0.00005	0.00005	0.00008
	B1	0.00001	0.00001	0.00001
	B1	0.00223	0.00242	0.00262

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X6H7H	(A1 * B0 * B1 * Y)	-0.00015	-0.00013	-0.00010
	(A1 * B0 * B1 * Y)	-0.00004	-0.00003	-0.00003
	(A1 * B0 * B1 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * B1 * Y)	0.00030	0.00030	0.00031
	(!A1 * B0 * B1 * Y)	-0.00021	-0.00021	-0.00021
	(!A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * B1 * Y)	0.00025	0.00025	0.00025
	(!A1 * !B1 * !Y)	-0.00021	-0.00021	-0.00020
	(!A1 * !B1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B1 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B1 * !Y)	0.00025	0.00026	0.00026
	(!A1 * !B0 * B1 * !Y)	-0.00021	-0.00021	-0.00021
	(!A1 * !B0 * B1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * B1 * !Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * B1 * !Y)	0.00025	0.00026	0.00026

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X6H7H	(A1 * B0 * B1 * Y)	0.00014	0.00015	0.00015
	(A1 * B0 * B1 * Y)	0.00003	0.00003	0.00004
	(A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * B1 * Y)	-0.00030	-0.00030	-0.00030
	(!A1 * B0 * B1 * Y)	0.00021	0.00021	0.00021
	(!A1 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * B1 * Y)	-0.00025	-0.00024	-0.00023
	(!A1 * !B1 * !Y)	0.00021	0.00021	0.00022
	(!A1 * !B1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B1 * !Y)	-0.00026	-0.00024	-0.00023
	(!A1 * !B0 * B1 * !Y)	0.00021	0.00021	0.00022
	(!A1 * !B0 * B1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * B1 * !Y)	-0.00025	-0.00024	-0.00023

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X6H7H	(A0 * B0 * B1 * Y)	-0.00015	-0.00013	-0.00010
	(A0 * B0 * B1 * Y)	-0.00004	-0.00003	-0.00003
	(A0 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * Y)	0.00028	0.00028	0.00029
	(!A0 * B0 * B1 * Y)	-0.00021	-0.00020	-0.00020
	(!A0 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * Y)	0.00002	0.00002	0.00002
	(!A0 * B0 * B1 * Y)	0.00023	0.00023	0.00024
	(!A0 * !B1 * !Y)	-0.00030	-0.00030	-0.00030
	(!A0 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * !Y)	0.00004	0.00004	0.00005
	(!A0 * !B1 * !Y)	0.00004	0.00006	0.00006
	(!A0 * !B0 * B1 * !Y)	-0.00030	-0.00030	-0.00030
	(!A0 * !B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * B1 * !Y)	0.00004	0.00004	0.00005
	(!A0 * !B0 * B1 * !Y)	0.00004	0.00006	0.00006

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X6H7H	(A0 * B0 * B1 * Y)	0.00014	0.00015	0.00015
	(A0 * B0 * B1 * Y)	0.00003	0.00003	0.00004
	(A0 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * Y)	-0.00028	-0.00028	-0.00028
	(!A0 * B0 * B1 * Y)	0.00020	0.00021	0.00021
	(!A0 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * B0 * B1 * Y)	-0.00024	-0.00022	-0.00021
	(!A0 * !B1 * !Y)	0.00030	0.00030	0.00030
	(!A0 * !B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * !Y)	-0.00004	-0.00004	-0.00003
	(!A0 * !B1 * !Y)	-0.00006	-0.00005	-0.00004
	(!A0 * !B0 * B1 * !Y)	0.00030	0.00030	0.00030
	(!A0 * !B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * B1 * !Y)	-0.00004	-0.00004	-0.00003
	(!A0 * !B0 * B1 * !Y)	-0.00006	-0.00005	-0.00004

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X6H7H	(A0 * A1 * B1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * B1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B1 * Y)	0.00042	0.00042	0.00042
	(A0 * A1 * !B1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B1 * Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * !B1 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B1 * Y)	0.00038	0.00039	0.00039
	(!A1 * !B1 * !Y)	-0.00029	-0.00029	-0.00029
	(!A1 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !Y)	0.00001	0.00002	0.00003
	(!A1 * !B1 * !Y)	0.00021	0.00023	0.00023
	(!A0 * A1 * !B1 * !Y)	-0.00029	-0.00029	-0.00029
	(!A0 * A1 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !Y)	0.00000	0.00002	0.00002
	(!A0 * A1 * !B1 * !Y)	0.00023	0.00023	0.00024

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X6H7H	(A0 * A1 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * Y)	0.00004	0.00005	0.00006
	(A0 * A1 * B1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * B1 * Y)	-0.00042	-0.00042	-0.00041
	(A0 * A1 * !B1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * Y)	0.00004	0.00004	0.00005
	(A0 * A1 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B1 * Y)	-0.00039	-0.00038	-0.00036
	(!A1 * !B1 * !Y)	0.00029	0.00029	0.00030
	(!A1 * !B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B1 * !Y)	-0.00022	-0.00021	-0.00020
	(!A0 * A1 * !B1 * !Y)	0.00029	0.00029	0.00030
	(!A0 * A1 * !B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !Y)	-0.00002	-0.00002	-0.00000
	(!A0 * A1 * !B1 * !Y)	-0.00022	-0.00021	-0.00019

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X6H7H	(A0 * A1 * B0 * Y)	-0.00000	0.00000	0.00001
	(A0 * A1 * B0 * Y)	-0.00005	-0.00004	-0.00004
	(A0 * A1 * B0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * Y)	0.00038	0.00039	0.00039
	(A0 * A1 * !B0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * Y)	-0.00004	-0.00004	-0.00003
	(A0 * A1 * !B0 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * Y)	0.00035	0.00035	0.00036
	(!A1 * !B0 * !Y)	-0.00036	-0.00036	-0.00035
	(!A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !Y)	0.00003	0.00004	0.00004
	(!A1 * !B0 * !Y)	0.00003	0.00003	0.00004
	(!A0 * A1 * !B0 * !Y)	-0.00036	-0.00036	-0.00035
	(!A0 * A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * !Y)	0.00002	0.00004	0.00004
	(!A0 * A1 * !B0 * !Y)	0.00003	0.00003	0.00004

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X6H7H	(A0 * A1 * B0 * Y)	-0.00001	-0.00000	0.00000
	(A0 * A1 * B0 * Y)	0.00004	0.00005	0.00006
	(A0 * A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B0 * Y)	-0.00039	-0.00038	-0.00038
	(A0 * A1 * !B0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * Y)	0.00004	0.00004	0.00005
	(A0 * A1 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * Y)	-0.00035	-0.00034	-0.00033
	(!A1 * !B0 * !Y)	0.00035	0.00036	0.00036
	(!A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !Y)	-0.00004	-0.00003	-0.00002
	(!A1 * !B0 * !Y)	-0.00004	-0.00003	-0.00003
	(!A0 * A1 * !B0 * !Y)	0.00035	0.00036	0.00036
	(!A0 * A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * !Y)	-0.00004	-0.00003	-0.00002
	(!A0 * A1 * !B0 * !Y)	-0.00004	-0.00003	-0.00003

AO31X0P5H7H

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

Cell Description

AO

Y=(A0 & A1 & A2)B0

Truth Table

INPUT				OUTPUT
A0	A1	A2	B0	Y
0	x	x	0	0
x	x	x	1	1
1	0	x	0	0
1	1	0	0	0
1	1	1	x	1

Footprint

Cell Name	Area
AO31X0P5H7H	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	A2	B0	Y
AO31X0P5H7H	0.00073	0.00078	0.00087	0.00094	0.03035

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO31X0P5H7H	0.00000	0.01496	0.01724

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO31X0P5H7H	A0->Y (RR)	0.10887	0.28100	0.70642
	A1->Y (RR)	0.10834	0.28470	0.71934
	A2->Y (RR)	0.10334	0.27613	0.69932
	B0->Y (RR)	0.05250	0.22010	0.62933

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO31X0P5H7H	A0->Y (FF)	0.11006	0.25826	0.61441
	A1->Y (FF)	0.10491	0.25122	0.60213
	A2->Y (FF)	0.09839	0.24150	0.58526
	B0->Y (FF)	0.10173	0.24250	0.58344

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO31X0P5H7H	A0	0.00039	0.00044	0.00049
	A0	0.00008	0.00008	0.00008
	A0	-0.00010	-0.00010	-0.00010
	A0	0.00169	0.00174	0.00179
	A1	0.00039	0.00044	0.00049
	A1	0.00008	0.00008	0.00008
	A1	-0.00006	-0.00006	-0.00006
	A1	0.00150	0.00156	0.00161
	A2	0.00038	0.00043	0.00049
	A2	0.00008	0.00008	0.00008
	A2	-0.00002	-0.00002	-0.00002
	A2	0.00135	0.00140	0.00146
	B0	0.00036	0.00043	0.00048
	B0	-0.00000	0.00000	0.00001
	B0	-0.00003	-0.00002	-0.00002
	B0	0.00142	0.00149	0.00154

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO31X0P5H7H	A0	0.00175	0.00180	0.00184
	A0	-0.00008	-0.00008	-0.00008
	A0	0.00010	0.00010	0.00010
	A0	0.00044	0.00049	0.00053
	A1	0.00166	0.00171	0.00175
	A1	-0.00008	-0.00008	-0.00008
	A1	0.00006	0.00006	0.00006
	A1	0.00049	0.00055	0.00059
	A2	0.00151	0.00158	0.00163
	A2	-0.00008	-0.00008	-0.00008
	A2	0.00002	0.00003	0.00004
	A2	0.00046	0.00054	0.00060
	B0	0.00142	0.00148	0.00154
	B0	0.00000	0.00000	0.00001
	B0	0.00010	0.00010	0.00010
	B0	0.00041	0.00047	0.00053

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X0P5H7H	(A1 * A2 * B0 * Y)	-0.00009	-0.00008	-0.00006
	(A1 * A2 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * A2 * B0 * Y)	0.00028	0.00028	0.00028
	(A1 * !A2 * B0 * Y)	-0.00013	-0.00013	-0.00013
	(A1 * !A2 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * Y)	0.00024	0.00024	0.00024
	(A1 * !A2 * !B0 * !Y)	-0.00013	-0.00013	-0.00013
	(A1 * !A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * !B0 * !Y)	0.00001	0.00001	0.00002
	(A1 * !A2 * !B0 * !Y)	0.00023	0.00024	0.00024
	(!A1 * B0 * Y)	-0.00013	-0.00013	-0.00013
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * Y)	0.00024	0.00024	0.00024
	(!A1 * A2 * !B0 * !Y)	-0.00013	-0.00013	-0.00013
	(!A1 * A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * A2 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * !Y)	0.00025	0.00025	0.00025
	(!A1 * !A2 * !B0 * !Y)	-0.00013	-0.00013	-0.00013
	(!A1 * !A2 * !B0 * !Y)	-0.00001	-0.00001	0.00000
	(!A1 * !A2 * !B0 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !A2 * !B0 * !Y)	0.00024	0.00024	0.00024

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X0P5H7H	(A1 * A2 * B0 * Y)	0.00009	0.00009	0.00009
	(A1 * A2 * B0 * Y)	0.00002	0.00002	0.00002
	(A1 * A2 * B0 * Y)	-0.00000	-0.00000	0.00000
	(A1 * A2 * B0 * Y)	-0.00028	-0.00028	-0.00027
	(A1 * !A2 * B0 * Y)	0.00013	0.00013	0.00013
	(A1 * !A2 * B0 * Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * Y)	-0.00024	-0.00023	-0.00021
	(A1 * !A2 * !B0 * !Y)	0.00013	0.00013	0.00013
	(A1 * !A2 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * !B0 * !Y)	-0.00002	-0.00001	-0.00001
	(A1 * !A2 * !B0 * !Y)	-0.00024	-0.00023	-0.00021
	(!A1 * B0 * Y)	0.00013	0.00013	0.00013
	(!A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * Y)	-0.00024	-0.00024	-0.00023
	(!A1 * A2 * !B0 * !Y)	0.00013	0.00013	0.00013
	(!A1 * A2 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * !Y)	-0.00025	-0.00024	-0.00022
	(!A1 * !A2 * !B0 * !Y)	0.00013	0.00013	0.00013
	(!A1 * !A2 * !B0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B0 * !Y)	-0.00024	-0.00024	-0.00023

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X0P5H7H	(A0 * A2 * B0 * Y)	-0.00011	-0.00009	-0.00006
	(A0 * A2 * B0 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * A2 * B0 * Y)	0.00000	0.00000	0.00001
	(A0 * A2 * B0 * Y)	0.00023	0.00023	0.00023
	(A0 * !A2 * B0 * Y)	-0.00016	-0.00016	-0.00015
	(A0 * !A2 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * B0 * Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * B0 * Y)	0.00019	0.00019	0.00019
	(A0 * !A2 * !B0 * !Y)	-0.00016	-0.00016	-0.00016
	(A0 * !A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A2 * !B0 * !Y)	0.00001	0.00001	0.00002
	(A0 * !A2 * !B0 * !Y)	0.00019	0.00019	0.00020
	(!A0 * A2 * B0 * Y)	-0.00016	-0.00016	-0.00015
	(!A0 * A2 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * B0 * Y)	0.00019	0.00019	0.00019
	(!A0 * A2 * !B0 * !Y)	-0.00016	-0.00016	-0.00015
	(!A0 * A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * !B0 * !Y)	0.00004	0.00004	0.00004
	(!A0 * A2 * !B0 * !Y)	0.00007	0.00007	0.00007
	(!A0 * !A2 * B0 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !A2 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * B0 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A2 * B0 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A2 * !B0 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * !B0 * !Y)	0.00004	0.00005	0.00005
	(!A0 * !A2 * !B0 * !Y)	0.00007	0.00007	0.00008

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X0P5H7H	(A0 * A2 * B0 * Y)	0.00011	0.00011	0.00011
	(A0 * A2 * B0 * Y)	0.00002	0.00003	0.00003
	(A0 * A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B0 * Y)	-0.00023	-0.00022	-0.00022
	(A0 * !A2 * B0 * Y)	0.00015	0.00016	0.00016
	(A0 * !A2 * B0 * Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * B0 * Y)	-0.00019	-0.00018	-0.00017
	(A0 * !A2 * !B0 * !Y)	0.00016	0.00016	0.00017
	(A0 * !A2 * !B0 * !Y)	0.00001	0.00001	0.00002
	(A0 * !A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B0 * !Y)	-0.00019	-0.00018	-0.00016
	(!A0 * A2 * B0 * Y)	0.00015	0.00016	0.00016
	(!A0 * A2 * B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B0 * Y)	-0.00019	-0.00018	-0.00017
	(!A0 * A2 * !B0 * !Y)	0.00016	0.00016	0.00016
	(!A0 * A2 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * !B0 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A2 * !B0 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A2 * B0 * Y)	0.00016	0.00016	0.00016
	(!A0 * !A2 * B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A2 * B0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A2 * B0 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A2 * !B0 * !Y)	0.00016	0.00016	0.00016
	(!A0 * !A2 * !B0 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !A2 * !B0 * !Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !A2 * !B0 * !Y)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X0P5H7H	(A0 * A1 * B0 * Y)	-0.00010	-0.00008	-0.00006
	(A0 * A1 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * Y)	0.00026	0.00026	0.00027
	(!A1 * B0 * Y)	-0.00013	-0.00013	-0.00013
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * Y)	0.00023	0.00023	0.00023
	(!A1 * !B0 * !Y)	-0.00023	-0.00022	-0.00022
	(!A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !Y)	0.00002	0.00003	0.00004
	(!A1 * !B0 * !Y)	0.00006	0.00007	0.00007
	(!A0 * A1 * B0 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * B0 * Y)	0.00022	0.00022	0.00022
	(!A0 * A1 * !B0 * !Y)	-0.00023	-0.00022	-0.00022
	(!A0 * A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * !Y)	0.00001	0.00002	0.00003
	(!A0 * A1 * !B0 * !Y)	0.00007	0.00007	0.00008

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X0P5H7H	(A0 * A1 * B0 * Y)	0.00009	0.00010	0.00010
	(A0 * A1 * B0 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * Y)	-0.00026	-0.00026	-0.00026
	(!A1 * B0 * Y)	0.00013	0.00013	0.00013
	(!A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * Y)	-0.00023	-0.00022	-0.00021
	(!A1 * !B0 * !Y)	0.00022	0.00023	0.00023
	(!A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A1 * !B0 * !Y)	-0.00007	-0.00007	-0.00006
	(!A0 * A1 * B0 * Y)	0.00013	0.00013	0.00013
	(!A0 * A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * B0 * Y)	-0.00022	-0.00021	-0.00019
	(!A0 * A1 * !B0 * !Y)	0.00022	0.00023	0.00023
	(!A0 * A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * !Y)	-0.00003	-0.00002	-0.00001
	(!A0 * A1 * !B0 * !Y)	-0.00007	-0.00007	-0.00007

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X0P5H7H	(A0 * A1 * A2 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * A2 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * A2 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * Y)	0.00035	0.00035	0.00035

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X0P5H7H	(A0 * A1 * A2 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * A2 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * A2 * Y)	-0.00035	-0.00035	-0.00035

AO31X0P7H7H

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

Cell Description

AO

Y=(A0 & A1 & A2)B0

Truth Table

INPUT				OUTPUT
A0	A1	A2	B0	Y
0	x	x	0	0
x	x	x	1	1
1	0	x	0	0
1	1	0	0	0
1	1	1	x	1

Footprint

Cell Name	Area
AO31X0P7H7H	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	A2	B0	Y
AO31X0P7H7H	0.00073	0.00079	0.00088	0.00097	0.03461

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO31X0P7H7H	0.00000	0.01597	0.01929

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO31X0P7H7H	A0->Y (RR)	0.10993	0.28374	0.71232
	A1->Y (RR)	0.10957	0.28780	0.72656
	A2->Y (RR)	0.10496	0.27979	0.70807
	B0->Y (RR)	0.05186	0.22126	0.63478

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO31X0P7H7H	A0->Y (FF)	0.11213	0.26279	0.62392
	A1->Y (FF)	0.10706	0.25589	0.61234
	A2->Y (FF)	0.10101	0.24657	0.59567
	B0->Y (FF)	0.10476	0.24799	0.59545

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO31X0P7H7H	A0	0.00042	0.00047	0.00052
	A0	0.00008	0.00008	0.00008
	A0	-0.00009	-0.00009	-0.00009
	A0	0.00173	0.00179	0.00184
	A1	0.00041	0.00046	0.00052
	A1	0.00008	0.00008	0.00008
	A1	-0.00007	-0.00006	-0.00006
	A1	0.00155	0.00160	0.00166
	A2	0.00040	0.00045	0.00052
	A2	0.00008	0.00008	0.00008
	A2	-0.00002	-0.00002	-0.00002
	A2	0.00139	0.00145	0.00151
	B0	0.00038	0.00045	0.00051
	B0	-0.00000	0.00000	0.00003
	B0	-0.00002	-0.00002	-0.00002
	B0	0.00147	0.00154	0.00160

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO31X0P7H7H	**A0**	0.00181	0.00186	0.00190
	A0	-0.00008	-0.00008	-0.00008
	A0	0.00009	0.00009	0.00009
	A0	0.00048	0.00052	0.00057
	A1	0.00171	0.00177	0.00181
	A1	-0.00008	-0.00008	-0.00008
	A1	0.00006	0.00006	0.00007
	A1	0.00053	0.00058	0.00063
	A2	0.00157	0.00164	0.00170
	A2	-0.00008	-0.00008	-0.00008
	A2	0.00002	0.00002	0.00003
	A2	0.00050	0.00057	0.00063
	B0	0.00149	0.00154	0.00161
	B0	0.00000	0.00000	0.00001
	B0	0.00009	0.00009	0.00009
	B0	0.00045	0.00050	0.00057

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X0P7H7H	(A1 * A2 * B0 * Y)	-0.00009	-0.00008	-0.00007
	(A1 * A2 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * A2 * B0 * Y)	0.00028	0.00028	0.00028
	(A1 * !A2 * B0 * Y)	-0.00013	-0.00013	-0.00013
	(A1 * !A2 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * Y)	0.00024	0.00024	0.00024
	(A1 * !A2 * !B0 * !Y)	-0.00013	-0.00013	-0.00013
	(A1 * !A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * !B0 * !Y)	0.00001	0.00001	0.00002
	(A1 * !A2 * !B0 * !Y)	0.00023	0.00024	0.00024
	(!A1 * B0 * Y)	-0.00013	-0.00013	-0.00013
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * Y)	0.00024	0.00024	0.00024
	(!A1 * A2 * !B0 * !Y)	-0.00013	-0.00013	-0.00013
	(!A1 * A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * !Y)	0.00024	0.00025	0.00025
	(!A1 * !A2 * !B0 * !Y)	-0.00013	-0.00013	-0.00013
	(!A1 * !A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !A2 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B0 * !Y)	0.00024	0.00024	0.00025

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X0P7H7H	(A1 * A2 * B0 * Y)	0.00009	0.00009	0.00009
	(A1 * A2 * B0 * Y)	0.00002	0.00002	0.00002
	(A1 * A2 * B0 * Y)	-0.00000	-0.00000	0.00000
	(A1 * A2 * B0 * Y)	-0.00028	-0.00028	-0.00027
	(A1 * !A2 * B0 * Y)	0.00013	0.00013	0.00013
	(A1 * !A2 * B0 * Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * Y)	-0.00024	-0.00023	-0.00021
	(A1 * !A2 * !B0 * !Y)	0.00013	0.00013	0.00013
	(A1 * !A2 * !B0 * !Y)	0.00000	0.00001	0.00001
	(A1 * !A2 * !B0 * !Y)	-0.00002	-0.00001	-0.00001
	(A1 * !A2 * !B0 * !Y)	-0.00024	-0.00023	-0.00021
	(!A1 * B0 * Y)	0.00013	0.00013	0.00013
	(!A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * Y)	-0.00024	-0.00024	-0.00023
	(!A1 * A2 * !B0 * !Y)	0.00013	0.00013	0.00013
	(!A1 * A2 * !B0 * !Y)	0.00001	0.00001	0.00002
	(!A1 * A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * !Y)	-0.00025	-0.00024	-0.00022
	(!A1 * !A2 * !B0 * !Y)	0.00013	0.00013	0.00013
	(!A1 * !A2 * !B0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B0 * !Y)	-0.00024	-0.00024	-0.00023

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X0P7H7H	(A0 * A2 * B0 * Y)	-0.00011	-0.00009	-0.00007
	(A0 * A2 * B0 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * Y)	0.00023	0.00023	0.00023
	(A0 * !A2 * B0 * Y)	-0.00016	-0.00016	-0.00016
	(A0 * !A2 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * B0 * Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * B0 * Y)	0.00019	0.00019	0.00019
	(A0 * !A2 * !B0 * !Y)	-0.00016	-0.00016	-0.00016
	(A0 * !A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B0 * !Y)	0.00019	0.00019	0.00019
	(!A0 * A2 * B0 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * A2 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * B0 * Y)	0.00019	0.00019	0.00019
	(!A0 * A2 * !B0 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0 * A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * !B0 * !Y)	0.00004	0.00004	0.00004
	(!A0 * A2 * !B0 * !Y)	0.00007	0.00007	0.00007
	(!A0 * !A2 * B0 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !A2 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * B0 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A2 * B0 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A2 * !B0 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A2 * !B0 * !Y)	0.00004	0.00005	0.00005
	(!A0 * !A2 * !B0 * !Y)	0.00007	0.00007	0.00008

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X0P7H7H	(A0 * A2 * B0 * Y)	0.00011	0.00011	0.00011
	(A0 * A2 * B0 * Y)	0.00003	0.00003	0.00003
	(A0 * A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B0 * Y)	-0.00023	-0.00022	-0.00022
	(A0 * !A2 * B0 * Y)	0.00016	0.00016	0.00016
	(A0 * !A2 * B0 * Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * B0 * Y)	-0.00019	-0.00018	-0.00017
	(A0 * !A2 * !B0 * !Y)	0.00016	0.00016	0.00017
	(A0 * !A2 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B0 * !Y)	-0.00019	-0.00018	-0.00016
	(!A0 * A2 * B0 * Y)	0.00016	0.00016	0.00016
	(!A0 * A2 * B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B0 * Y)	-0.00019	-0.00018	-0.00017
	(!A0 * A2 * !B0 * !Y)	0.00016	0.00016	0.00016
	(!A0 * A2 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * !B0 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A2 * !B0 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A2 * B0 * Y)	0.00016	0.00016	0.00016
	(!A0 * !A2 * B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A2 * B0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A2 * B0 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A2 * !B0 * !Y)	0.00016	0.00016	0.00016
	(!A0 * !A2 * !B0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !A2 * !B0 * !Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !A2 * !B0 * !Y)	-0.00008	-0.00007	-0.00007

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X0P7H7H	(A0 * A1 * B0 * Y)	-0.00009	-0.00008	-0.00006
	(A0 * A1 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * B0 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B0 * Y)	0.00027	0.00027	0.00027
	(!A1 * B0 * Y)	-0.00013	-0.00013	-0.00013
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * Y)	0.00023	0.00023	0.00024
	(!A1 * !B0 * !Y)	-0.00023	-0.00023	-0.00023
	(!A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !Y)	0.00003	0.00003	0.00004
	(!A1 * !B0 * !Y)	0.00006	0.00006	0.00007
	(!A0 * A1 * B0 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * B0 * Y)	0.00023	0.00023	0.00023
	(!A0 * A1 * !B0 * !Y)	-0.00023	-0.00023	-0.00023
	(!A0 * A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * !Y)	0.00002	0.00003	0.00004
	(!A0 * A1 * !B0 * !Y)	0.00006	0.00007	0.00007

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X0P7H7H	(A0 * A1 * B0 * Y)	0.00009	0.00010	0.00010
	(A0 * A1 * B0 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * Y)	-0.00027	-0.00027	-0.00027
	(!A1 * B0 * Y)	0.00013	0.00013	0.00013
	(!A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * Y)	-0.00024	-0.00023	-0.00022
	(!A1 * !B0 * !Y)	0.00023	0.00023	0.00023
	(!A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A1 * !B0 * !Y)	-0.00007	-0.00006	-0.00006
	(!A0 * A1 * B0 * Y)	0.00013	0.00013	0.00013
	(!A0 * A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * B0 * Y)	-0.00023	-0.00022	-0.00020
	(!A0 * A1 * !B0 * !Y)	0.00023	0.00023	0.00023
	(!A0 * A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * A1 * !B0 * !Y)	-0.00007	-0.00007	-0.00006

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X0P7H7H	(A0 * A1 * A2 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * A2 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * A2 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * Y)	0.00036	0.00036	0.00037

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X0P7H7H	(A0 * A1 * A2 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * A2 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * A2 * Y)	-0.00036	-0.00036	-0.00036

AO31X1H7H

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

Cell Description

AO

Y=(A0 & A1 & A2)B0

Truth Table

INPUT				OUTPUT
A0	A1	A2	B0	Y
0	x	x	0	0
x	x	x	1	1
1	0	x	0	0
1	1	0	0	0
1	1	1	x	1

Footprint

Cell Name	Area
AO31X1H7H	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	A2	B0	Y
AO31X1H7H	0.00073	0.00078	0.00088	0.00096	0.04139

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO31X1H7H	0.00000	0.01832	0.02369

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO31X1H7H	A0->Y (RR)	0.11032	0.28578	0.71723
	A1->Y (RR)	0.10991	0.28991	0.73173
	A2->Y (RR)	0.10540	0.28220	0.71433
	B0->Y (RR)	0.05079	0.22182	0.63951

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO31X1H7H	A0->Y (FF)	0.11398	0.26916	0.64072
	A1->Y (FF)	0.10880	0.26222	0.62923
	A2->Y (FF)	0.10282	0.25310	0.61327
	B0->Y (FF)	0.10668	0.25470	0.61280

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO31X1H7H	A0	0.00048	0.00053	0.00059
	A0	0.00007	0.00007	0.00007
	A0	-0.00009	-0.00009	-0.00009
	A0	0.00179	0.00184	0.00189
	A1	0.00047	0.00052	0.00058
	A1	0.00007	0.00007	0.00007
	A1	-0.00006	-0.00006	-0.00005
	A1	0.00160	0.00166	0.00171
	A2	0.00046	0.00052	0.00058
	A2	0.00007	0.00007	0.00007
	A2	-0.00002	-0.00002	-0.00001
	A2	0.00144	0.00150	0.00157
	B0	0.00041	0.00050	0.00058
	B0	-0.00001	-0.00001	0.00003
	B0	-0.00002	-0.00002	-0.00002
	B0	0.00152	0.00160	0.00166

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO31X1H7H	A0	0.00185	0.00190	0.00195
	A0	-0.00007	-0.00007	-0.00007
	A0	0.00009	0.00009	0.00009
	A0	0.00053	0.00058	0.00063
	A1	0.00176	0.00181	0.00186
	A1	-0.00007	-0.00007	-0.00007
	A1	0.00005	0.00006	0.00006
	A1	0.00058	0.00064	0.00069
	A2	0.00162	0.00169	0.00175
	A2	-0.00007	-0.00007	-0.00007
	A2	0.00001	0.00002	0.00003
	A2	0.00055	0.00063	0.00070
	B0	0.00153	0.00159	0.00166
	B0	0.00001	0.00001	0.00002
	B0	0.00009	0.00009	0.00009
	B0	0.00050	0.00056	0.00063

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X1H7H	(A1 * A2 * B0 * Y)	-0.00009	-0.00008	-0.00006
	(A1 * A2 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * A2 * B0 * Y)	0.00028	0.00028	0.00028
	(A1 * !A2 * B0 * Y)	-0.00013	-0.00013	-0.00013
	(A1 * !A2 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * Y)	0.00024	0.00024	0.00024
	(A1 * !A2 * !B0 * !Y)	-0.00013	-0.00013	-0.00013
	(A1 * !A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !B0 * !Y)	0.00001	0.00001	0.00002
	(A1 * !A2 * !B0 * !Y)	0.00023	0.00024	0.00024
	(!A1 * B0 * Y)	-0.00013	-0.00013	-0.00013
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * Y)	0.00024	0.00024	0.00024
	(!A1 * A2 * !B0 * !Y)	-0.00013	-0.00013	-0.00013
	(!A1 * A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * !Y)	0.00024	0.00024	0.00025
	(!A1 * !A2 * !B0 * !Y)	-0.00013	-0.00013	-0.00013
	(!A1 * !A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B0 * !Y)	0.00024	0.00024	0.00025

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X1H7H	(A1 * A2 * B0 * Y)	0.00009	0.00009	0.00009
	(A1 * A2 * B0 * Y)	0.00002	0.00002	0.00002
	(A1 * A2 * B0 * Y)	-0.00000	-0.00000	0.00000
	(A1 * A2 * B0 * Y)	-0.00028	-0.00028	-0.00027
	(A1 * !A2 * B0 * Y)	0.00013	0.00013	0.00013
	(A1 * !A2 * B0 * Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * Y)	-0.00024	-0.00023	-0.00021
	(A1 * !A2 * !B0 * !Y)	0.00013	0.00013	0.00013
	(A1 * !A2 * !B0 * !Y)	0.00001	0.00001	0.00002
	(A1 * !A2 * !B0 * !Y)	-0.00002	-0.00001	-0.00001
	(A1 * !A2 * !B0 * !Y)	-0.00024	-0.00023	-0.00021
	(!A1 * B0 * Y)	0.00013	0.00013	0.00013
	(!A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * Y)	-0.00024	-0.00024	-0.00023
	(!A1 * A2 * !B0 * !Y)	0.00013	0.00013	0.00013
	(!A1 * A2 * !B0 * !Y)	0.00001	0.00001	0.00002
	(!A1 * A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * !Y)	-0.00025	-0.00023	-0.00022
	(!A1 * !A2 * !B0 * !Y)	0.00013	0.00013	0.00013
	(!A1 * !A2 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B0 * !Y)	-0.00024	-0.00024	-0.00023

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X1H7H	(A0 * A2 * B0 * Y)	-0.00011	-0.00009	-0.00007
	(A0 * A2 * B0 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * Y)	0.00023	0.00023	0.00023
	(A0 * !A2 * B0 * Y)	-0.00016	-0.00016	-0.00016
	(A0 * !A2 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * B0 * Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * B0 * Y)	0.00019	0.00019	0.00019
	(A0 * !A2 * !B0 * !Y)	-0.00016	-0.00016	-0.00016
	(A0 * !A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A2 * !B0 * !Y)	0.00001	0.00001	0.00002
	(A0 * !A2 * !B0 * !Y)	0.00019	0.00019	0.00020
	(!A0 * A2 * B0 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * A2 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * B0 * Y)	0.00019	0.00019	0.00019
	(!A0 * A2 * !B0 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0 * A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A2 * !B0 * !Y)	0.00004	0.00004	0.00004
	(!A0 * A2 * !B0 * !Y)	0.00007	0.00007	0.00007
	(!A0 * !A2 * B0 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !A2 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * B0 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A2 * B0 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A2 * !B0 * !Y)	-0.00016	-0.00016	-0.00015
	(!A0 * !A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * !B0 * !Y)	0.00005	0.00005	0.00005
	(!A0 * !A2 * !B0 * !Y)	0.00007	0.00007	0.00007

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X1H7H	(A0 * A2 * B0 * Y)	0.00011	0.00011	0.00011
	(A0 * A2 * B0 * Y)	0.00003	0.00003	0.00003
	(A0 * A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B0 * Y)	-0.00023	-0.00022	-0.00022
	(A0 * !A2 * B0 * Y)	0.00016	0.00016	0.00016
	(A0 * !A2 * B0 * Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * B0 * Y)	-0.00019	-0.00018	-0.00017
	(A0 * !A2 * !B0 * !Y)	0.00016	0.00016	0.00017
	(A0 * !A2 * !B0 * !Y)	0.00001	0.00001	0.00002
	(A0 * !A2 * !B0 * !Y)	-0.00002	-0.00001	-0.00001
	(A0 * !A2 * !B0 * !Y)	-0.00019	-0.00018	-0.00017
	(!A0 * A2 * B0 * Y)	0.00016	0.00016	0.00016
	(!A0 * A2 * B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B0 * Y)	-0.00019	-0.00018	-0.00017
	(!A0 * A2 * !B0 * !Y)	0.00016	0.00016	0.00016
	(!A0 * A2 * !B0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A2 * !B0 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A2 * !B0 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A2 * B0 * Y)	0.00016	0.00016	0.00016
	(!A0 * !A2 * B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A2 * B0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A2 * B0 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A2 * !B0 * !Y)	0.00016	0.00016	0.00016
	(!A0 * !A2 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A2 * !B0 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A2 * !B0 * !Y)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X1H7H	(A0 * A1 * B0 * Y)	-0.00010	-0.00008	-0.00006
	(A0 * A1 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * B0 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * B0 * Y)	0.00027	0.00027	0.00027
	(!A1 * B0 * Y)	-0.00013	-0.00013	-0.00013
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * Y)	0.00023	0.00024	0.00024
	(!A1 * !B0 * !Y)	-0.00024	-0.00023	-0.00023
	(!A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !Y)	0.00002	0.00003	0.00004
	(!A1 * !B0 * !Y)	0.00006	0.00007	0.00007
	(!A0 * A1 * B0 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * B0 * Y)	0.00023	0.00023	0.00023
	(!A0 * A1 * !B0 * !Y)	-0.00024	-0.00023	-0.00023
	(!A0 * A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * !Y)	0.00001	0.00003	0.00003
	(!A0 * A1 * !B0 * !Y)	0.00006	0.00007	0.00008

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X1H7H	(A0 * A1 * B0 * Y)	0.00009	0.00010	0.00010
	(A0 * A1 * B0 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * Y)	-0.00027	-0.00027	-0.00027
	(!A1 * B0 * Y)	0.00013	0.00013	0.00013
	(!A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * Y)	-0.00024	-0.00023	-0.00022
	(!A1 * !B0 * !Y)	0.00023	0.00023	0.00024
	(!A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A1 * !B0 * !Y)	-0.00007	-0.00007	-0.00006
	(!A0 * A1 * B0 * Y)	0.00013	0.00013	0.00013
	(!A0 * A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * B0 * Y)	-0.00023	-0.00022	-0.00020
	(!A0 * A1 * !B0 * !Y)	0.00023	0.00023	0.00024
	(!A0 * A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * !Y)	-0.00003	-0.00002	-0.00001
	(!A0 * A1 * !B0 * !Y)	-0.00007	-0.00007	-0.00006

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X1H7H	(A0 * A1 * A2 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * A2 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * A2 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * Y)	0.00036	0.00036	0.00036

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X1H7H	(A0 * A1 * A2 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * A2 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * A2 * Y)	-0.00036	-0.00036	-0.00036

AO31X1P4H7H

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

Cell Description

AO

Y=(A0 & A1 & A2)B0

Truth Table

INPUT				OUTPUT
A0	A1	A2	B0	Y
0	x	x	0	0
x	x	x	1	1
1	0	x	0	0
1	1	0	0	0
1	1	1	x	1

Footprint

Cell Name	Area
AO31X1P4H7H	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	A2	B0	Y
AO31X1P4H7H	0.00073	0.00079	0.00088	0.00096	0.04707

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO31X1P4H7H	0.00000	0.02144	0.02911

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO31X1P4H7H	A0->Y (RR)	0.10941	0.28578	0.71811
	A1->Y (RR)	0.10905	0.29006	0.73307
	A2->Y (RR)	0.10447	0.28232	0.71584
	B0->Y (RR)	0.04919	0.22096	0.63969

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO31X1P4H7H	A0->Y (FF)	0.11370	0.27076	0.64563
	A1->Y (FF)	0.10859	0.26390	0.63430
	A2->Y (FF)	0.10257	0.25471	0.61816
	B0->Y (FF)	0.10628	0.25621	0.61817

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO31X1P4H7H	A0	0.00050	0.00056	0.00061
	A0	0.00007	0.00007	0.00007
	A0	-0.00009	-0.00009	-0.00008
	A0	0.00179	0.00185	0.00190
	A1	0.00049	0.00055	0.00061
	A1	0.00007	0.00007	0.00007
	A1	-0.00005	-0.00005	-0.00005
	A1	0.00161	0.00167	0.00173
	A2	0.00048	0.00054	0.00061
	A2	0.00007	0.00007	0.00007
	A2	-0.00001	-0.00001	-0.00001
	A2	0.00145	0.00151	0.00158
	B0	0.00046	0.00054	0.00060
	B0	-0.00002	-0.00001	0.00002
	B0	-0.00001	-0.00001	-0.00001
	B0	0.00153	0.00160	0.00167

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO31X1P4H7H	A0	0.00187	0.00192	0.00197
	A0	-0.00007	-0.00007	-0.00007
	A0	0.00008	0.00009	0.00009
	A0	0.00056	0.00061	0.00066
	A1	0.00177	0.00183	0.00188
	A1	-0.00007	-0.00007	-0.00007
	A1	0.00005	0.00005	0.00005
	A1	0.00061	0.00067	0.00072
	A2	0.00163	0.00170	0.00177
	A2	-0.00007	-0.00007	-0.00007
	A2	0.00001	0.00001	0.00003
	A2	0.00058	0.00066	0.00073
	B0	0.00154	0.00161	0.00168
	B0	0.00001	0.00002	0.00003
	B0	0.00008	0.00009	0.00009
	B0	0.00053	0.00059	0.00066

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X1P4H7H	(A1 * A2 * B0 * Y)	-0.00009	-0.00008	-0.00006
	(A1 * A2 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * A2 * B0 * Y)	0.00027	0.00028	0.00028
	(A1 * !A2 * B0 * Y)	-0.00013	-0.00013	-0.00013
	(A1 * !A2 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * Y)	0.00024	0.00024	0.00024
	(A1 * !A2 * !B0 * !Y)	-0.00013	-0.00013	-0.00013
	(A1 * !A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * !B0 * !Y)	0.00024	0.00024	0.00024
	(!A1 * B0 * Y)	-0.00013	-0.00013	-0.00013
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * Y)	0.00024	0.00024	0.00024
	(!A1 * A2 * !B0 * !Y)	-0.00013	-0.00013	-0.00013
	(!A1 * A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * !Y)	0.00024	0.00024	0.00025
	(!A1 * !A2 * !B0 * !Y)	-0.00013	-0.00013	-0.00013
	(!A1 * !A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !A2 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B0 * !Y)	0.00023	0.00024	0.00025

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X1P4H7H	(A1 * A2 * B0 * Y)	0.00009	0.00009	0.00009
	(A1 * A2 * B0 * Y)	0.00002	0.00002	0.00002
	(A1 * A2 * B0 * Y)	-0.00000	-0.00000	0.00000
	(A1 * A2 * B0 * Y)	-0.00028	-0.00027	-0.00027
	(A1 * !A2 * B0 * Y)	0.00013	0.00013	0.00013
	(A1 * !A2 * B0 * Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * Y)	-0.00024	-0.00023	-0.00021
	(A1 * !A2 * !B0 * !Y)	0.00013	0.00013	0.00013
	(A1 * !A2 * !B0 * !Y)	0.00001	0.00001	0.00002
	(A1 * !A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !B0 * !Y)	-0.00024	-0.00023	-0.00021
	(!A1 * B0 * Y)	0.00013	0.00013	0.00013
	(!A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * Y)	-0.00024	-0.00024	-0.00023
	(!A1 * A2 * !B0 * !Y)	0.00013	0.00013	0.00013
	(!A1 * A2 * !B0 * !Y)	0.00001	0.00001	0.00002
	(!A1 * A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * !Y)	-0.00024	-0.00023	-0.00022
	(!A1 * !A2 * !B0 * !Y)	0.00013	0.00013	0.00013
	(!A1 * !A2 * !B0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B0 * !Y)	-0.00024	-0.00024	-0.00023

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X1P4H7H	(A0 * A2 * B0 * Y)	-0.00011	-0.00009	-0.00006
	(A0 * A2 * B0 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * Y)	0.00022	0.00023	0.00023
	(A0 * !A2 * B0 * Y)	-0.00016	-0.00016	-0.00016
	(A0 * !A2 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * B0 * Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * B0 * Y)	0.00019	0.00019	0.00019
	(A0 * !A2 * !B0 * !Y)	-0.00016	-0.00016	-0.00016
	(A0 * !A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A2 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B0 * !Y)	0.00019	0.00019	0.00019
	(!A0 * A2 * B0 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * A2 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * B0 * Y)	0.00019	0.00019	0.00019
	(!A0 * A2 * !B0 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0 * A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A2 * !B0 * !Y)	0.00004	0.00004	0.00004
	(!A0 * A2 * !B0 * !Y)	0.00007	0.00007	0.00007
	(!A0 * !A2 * B0 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !A2 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * B0 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A2 * B0 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A2 * !B0 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A2 * !B0 * !Y)	0.00005	0.00005	0.00005
	(!A0 * !A2 * !B0 * !Y)	0.00007	0.00007	0.00007

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X1P4H7H	(A0 * A2 * B0 * Y)	0.00011	0.00011	0.00011
	(A0 * A2 * B0 * Y)	0.00003	0.00003	0.00003
	(A0 * A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B0 * Y)	-0.00023	-0.00022	-0.00022
	(A0 * !A2 * B0 * Y)	0.00016	0.00016	0.00016
	(A0 * !A2 * B0 * Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * B0 * Y)	-0.00019	-0.00018	-0.00017
	(A0 * !A2 * !B0 * !Y)	0.00016	0.00016	0.00017
	(A0 * !A2 * !B0 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B0 * !Y)	-0.00019	-0.00018	-0.00017
	(!A0 * A2 * B0 * Y)	0.00016	0.00016	0.00016
	(!A0 * A2 * B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B0 * Y)	-0.00019	-0.00018	-0.00017
	(!A0 * A2 * !B0 * !Y)	0.00016	0.00016	0.00016
	(!A0 * A2 * !B0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A2 * !B0 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A2 * !B0 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A2 * B0 * Y)	0.00016	0.00016	0.00016
	(!A0 * !A2 * B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A2 * B0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A2 * B0 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A2 * !B0 * !Y)	0.00016	0.00016	0.00016
	(!A0 * !A2 * !B0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !A2 * !B0 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A2 * !B0 * !Y)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X1P4H7H	(A0 * A1 * B0 * Y)	-0.00010	-0.00008	-0.00006
	(A0 * A1 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * Y)	0.00027	0.00027	0.00027
	(!A1 * B0 * Y)	-0.00013	-0.00013	-0.00013
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * Y)	0.00023	0.00023	0.00024
	(!A1 * !B0 * !Y)	-0.00024	-0.00023	-0.00023
	(!A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !Y)	0.00002	0.00003	0.00004
	(!A1 * !B0 * !Y)	0.00006	0.00007	0.00007
	(!A0 * A1 * B0 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * A1 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * B0 * Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * B0 * Y)	0.00023	0.00023	0.00023
	(!A0 * A1 * !B0 * !Y)	-0.00023	-0.00023	-0.00023
	(!A0 * A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * !Y)	0.00002	0.00003	0.00004
	(!A0 * A1 * !B0 * !Y)	0.00006	0.00007	0.00007

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X1P4H7H	(A0 * A1 * B0 * Y)	0.00009	0.00010	0.00010
	(A0 * A1 * B0 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * Y)	-0.00027	-0.00027	-0.00027
	(!A1 * B0 * Y)	0.00013	0.00013	0.00013
	(!A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * Y)	-0.00024	-0.00023	-0.00022
	(!A1 * !B0 * !Y)	0.00023	0.00023	0.00024
	(!A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !Y)	-0.00003	-0.00002	-0.00002
	(!A1 * !B0 * !Y)	-0.00007	-0.00007	-0.00006
	(!A0 * A1 * B0 * Y)	0.00013	0.00013	0.00013
	(!A0 * A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * B0 * Y)	-0.00023	-0.00022	-0.00020
	(!A0 * A1 * !B0 * !Y)	0.00023	0.00023	0.00023
	(!A0 * A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * !Y)	-0.00004	-0.00003	-0.00002
	(!A0 * A1 * !B0 * !Y)	-0.00007	-0.00007	-0.00006

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X1P4H7H	(A0 * A1 * A2 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * A2 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * A2 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * Y)	0.00036	0.00036	0.00036

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X1P4H7H	(A0 * A1 * A2 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * Y)	0.00003	0.00003	0.00004
	(A0 * A1 * A2 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * A2 * Y)	-0.00036	-0.00036	-0.00035

AO31X2H7H

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

Cell Description

AO

Y=(A0 & A1 & A2)B0

Truth Table

INPUT				OUTPUT
A0	A1	A2	B0	Y
0	x	x	0	0
x	x	x	1	1
1	0	x	0	0
1	1	0	0	0
1	1	1	x	1

Footprint

Cell Name	Area
AO31X2H7H	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	A2	B0	Y
AO31X2H7H	0.00087	0.00081	0.00089	0.00098	0.06057

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO31X2H7H	0.00000	0.02038	0.02418

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO31X2H7H	A0->Y (RR)	0.13528	0.31660	0.75828
	A1->Y (RR)	0.12981	0.31743	0.77374
	A2->Y (RR)	0.12529	0.31070	0.76032
	B0->Y (RR)	0.05934	0.23810	0.67262

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO31X2H7H	A0->Y (FF)	0.13930	0.29799	0.67401
	A1->Y (FF)	0.12959	0.28716	0.65885
	A2->Y (FF)	0.12298	0.27841	0.64541
	B0->Y (FF)	0.13021	0.28425	0.65457

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO31X2H7H	A0	0.00080	0.00089	0.00099
	A0	0.00006	0.00006	0.00006
	A0	-0.00008	-0.00008	-0.00008
	A0	0.00219	0.00228	0.00238
	A1	0.00082	0.00089	0.00099
	A1	0.00006	0.00006	0.00006
	A1	-0.00004	-0.00004	-0.00003
	A1	0.00201	0.00209	0.00218
	A2	0.00081	0.00088	0.00099
	A2	0.00006	0.00006	0.00007
	A2	-0.00000	-0.00000	0.00002
	A2	0.00183	0.00191	0.00201
	B0	0.00084	0.00095	0.00106
	B0	-0.00002	-0.00002	-0.00001
	B0	-0.00000	-0.00000	-0.00000
	B0	0.00200	0.00210	0.00220

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO31X2H7H	A0	0.00233	0.00242	0.00251
	A0	-0.00006	-0.00006	-0.00006
	A0	0.00008	0.00008	0.00008
	A0	0.00094	0.00102	0.00111
	A1	0.00218	0.00226	0.00234
	A1	-0.00006	-0.00006	-0.00006
	A1	0.00004	0.00004	0.00004
	A1	0.00095	0.00103	0.00112
	A2	0.00205	0.00215	0.00224
	A2	-0.00007	-0.00006	-0.00006
	A2	0.00000	0.00000	0.00001
	A2	0.00097	0.00106	0.00115
	B0	0.00200	0.00208	0.00218
	B0	0.00002	0.00002	0.00003
	B0	0.00007	0.00008	0.00008
	B0	0.00090	0.00099	0.00109

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X2H7H	(A1 * A2 * B0 * Y)	-0.00009	-0.00008	-0.00006
	(A1 * A2 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * A2 * B0 * Y)	0.00000	0.00000	0.00001
	(A1 * A2 * B0 * Y)	0.00031	0.00032	0.00032
	(A1 * !A2 * B0 * Y)	-0.00013	-0.00013	-0.00012
	(A1 * !A2 * B0 * Y)	-0.00002	-0.00001	-0.00001
	(A1 * !A2 * B0 * Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * Y)	0.00027	0.00027	0.00027
	(A1 * !A2 * !B0 * !Y)	-0.00020	-0.00020	-0.00020
	(A1 * !A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !B0 * !Y)	0.00001	0.00001	0.00002
	(A1 * !A2 * !B0 * !Y)	0.00020	0.00020	0.00021
	(!A1 * B0 * Y)	-0.00013	-0.00013	-0.00012
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * Y)	0.00001	0.00002	0.00002
	(!A1 * B0 * Y)	0.00027	0.00028	0.00028
	(!A1 * A2 * !B0 * !Y)	-0.00020	-0.00020	-0.00020
	(!A1 * A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * !Y)	0.00020	0.00021	0.00021
	(!A1 * !A2 * !B0 * !Y)	-0.00020	-0.00020	-0.00020
	(!A1 * !A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B0 * !Y)	0.00000	0.00001	0.00002
	(!A1 * !A2 * !B0 * !Y)	0.00020	0.00021	0.00022

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X2H7H	(A1 * A2 * B0 * Y)	0.00009	0.00009	0.00009
	(A1 * A2 * B0 * Y)	0.00002	0.00002	0.00003
	(A1 * A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * A2 * B0 * Y)	-0.00031	-0.00031	-0.00031
	(A1 * !A2 * B0 * Y)	0.00012	0.00013	0.00013
	(A1 * !A2 * B0 * Y)	0.00001	0.00001	0.00002
	(A1 * !A2 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * Y)	-0.00027	-0.00026	-0.00024
	(A1 * !A2 * !B0 * !Y)	0.00020	0.00020	0.00020
	(A1 * !A2 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * !B0 * !Y)	-0.00002	-0.00001	-0.00001
	(A1 * !A2 * !B0 * !Y)	-0.00020	-0.00019	-0.00018
	(!A1 * B0 * Y)	0.00012	0.00013	0.00013
	(!A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * Y)	-0.00028	-0.00027	-0.00026
	(!A1 * A2 * !B0 * !Y)	0.00020	0.00020	0.00020
	(!A1 * A2 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * !Y)	-0.00021	-0.00020	-0.00019
	(!A1 * !A2 * !B0 * !Y)	0.00020	0.00020	0.00020
	(!A1 * !A2 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !A2 * !B0 * !Y)	-0.00021	-0.00020	-0.00019

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X2H7H	(A0 * A2 * B0 * Y)	-0.00009	-0.00008	-0.00006
	(A0 * A2 * B0 * Y)	-0.00003	-0.00002	-0.00002
	(A0 * A2 * B0 * Y)	0.00000	0.00000	0.00001
	(A0 * A2 * B0 * Y)	0.00027	0.00027	0.00028
	(A0 * !A2 * B0 * Y)	-0.00013	-0.00013	-0.00013
	(A0 * !A2 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A2 * B0 * Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * B0 * Y)	0.00023	0.00023	0.00023
	(A0 * !A2 * !B0 * !Y)	-0.00015	-0.00015	-0.00015
	(A0 * !A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A2 * !B0 * !Y)	0.00001	0.00001	0.00002
	(A0 * !A2 * !B0 * !Y)	0.00021	0.00021	0.00022
	(!A0 * A2 * B0 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * A2 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B0 * Y)	0.00001	0.00001	0.00002
	(!A0 * A2 * B0 * Y)	0.00023	0.00023	0.00023
	(!A0 * A2 * !B0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A0 * A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A2 * !B0 * !Y)	0.00004	0.00004	0.00004
	(!A0 * A2 * !B0 * !Y)	0.00009	0.00009	0.00009
	(!A0 * !A2 * B0 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A2 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * B0 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A2 * B0 * Y)	0.00011	0.00011	0.00011
	(!A0 * !A2 * !B0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * !B0 * !Y)	0.00004	0.00005	0.00005
	(!A0 * !A2 * !B0 * !Y)	0.00008	0.00009	0.00009

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X2H7H	(A0 * A2 * B0 * Y)	0.00009	0.00009	0.00009
	(A0 * A2 * B0 * Y)	0.00002	0.00002	0.00003
	(A0 * A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B0 * Y)	-0.00027	-0.00027	-0.00027
	(A0 * !A2 * B0 * Y)	0.00013	0.00013	0.00013
	(A0 * !A2 * B0 * Y)	0.00000	0.00001	0.00001
	(A0 * !A2 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * B0 * Y)	-0.00023	-0.00022	-0.00022
	(A0 * !A2 * !B0 * !Y)	0.00015	0.00016	0.00017
	(A0 * !A2 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B0 * !Y)	-0.00002	-0.00001	-0.00001
	(A0 * !A2 * !B0 * !Y)	-0.00021	-0.00020	-0.00018
	(!A0 * A2 * B0 * Y)	0.00013	0.00013	0.00013
	(!A0 * A2 * B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * B0 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * A2 * B0 * Y)	-0.00023	-0.00022	-0.00021
	(!A0 * A2 * !B0 * !Y)	0.00015	0.00015	0.00015
	(!A0 * A2 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * !B0 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A2 * !B0 * !Y)	-0.00009	-0.00009	-0.00008
	(!A0 * !A2 * B0 * Y)	0.00013	0.00013	0.00013
	(!A0 * !A2 * B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A2 * B0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A2 * B0 * Y)	-0.00011	-0.00011	-0.00011
	(!A0 * !A2 * !B0 * !Y)	0.00015	0.00015	0.00015
	(!A0 * !A2 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A2 * !B0 * !Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !A2 * !B0 * !Y)	-0.00009	-0.00009	-0.00008

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X2H7H	(A0 * A1 * B0 * Y)	-0.00009	-0.00008	-0.00006
	(A0 * A1 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * B0 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * B0 * Y)	0.00027	0.00027	0.00027
	(!A1 * B0 * Y)	-0.00013	-0.00013	-0.00013
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * Y)	0.00023	0.00023	0.00023
	(!A1 * !B0 * !Y)	-0.00023	-0.00023	-0.00023
	(!A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !Y)	0.00002	0.00002	0.00003
	(!A1 * !B0 * !Y)	0.00006	0.00006	0.00007
	(!A0 * A1 * B0 * Y)	-0.00013	-0.00013	-0.00012
	(!A0 * A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * B0 * Y)	0.00022	0.00022	0.00022
	(!A0 * A1 * !B0 * !Y)	-0.00023	-0.00023	-0.00023
	(!A0 * A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * A1 * !B0 * !Y)	0.00005	0.00006	0.00007

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X2H7H	(A0 * A1 * B0 * Y)	0.00009	0.00009	0.00009
	(A0 * A1 * B0 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * Y)	-0.00027	-0.00027	-0.00026
	(!A1 * B0 * Y)	0.00013	0.00013	0.00013
	(!A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * Y)	-0.00023	-0.00022	-0.00021
	(!A1 * !B0 * !Y)	0.00023	0.00023	0.00023
	(!A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !Y)	-0.00003	-0.00002	-0.00002
	(!A1 * !B0 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0 * A1 * B0 * Y)	0.00013	0.00013	0.00013
	(!A0 * A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * B0 * Y)	-0.00022	-0.00021	-0.00019
	(!A0 * A1 * !B0 * !Y)	0.00023	0.00023	0.00023
	(!A0 * A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B0 * !Y)	-0.00006	-0.00006	-0.00005

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X2H7H	(A0 * A1 * A2 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * A2 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * A2 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * Y)	0.00037	0.00037	0.00037

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X2H7H	(A0 * A1 * A2 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * A2 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * A2 * Y)	-0.00037	-0.00037	-0.00037

AO31X3H7H

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

Cell Description

AO

Y=(A0 & A1 & A2)B0

Truth Table

INPUT				OUTPUT
A0	A1	A2	B0	Y
0	x	x	0	0
x	x	x	1	1
1	0	x	0	0
1	1	0	0	0
1	1	1	x	1

Footprint

Cell Name	Area
AO31X3H7H	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	A2	B0	Y
AO31X3H7H	0.00096	0.00089	0.00097	0.00106	0.08651

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO31X3H7H	0.00000	0.03284	0.03686

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO31X3H7H	A0->Y (RR)	0.12405	0.30814	0.75514
	A1->Y (RR)	0.11969	0.30881	0.76769
	A2->Y (RR)	0.11446	0.29979	0.74786
	B0->Y (RR)	0.05209	0.23195	0.66854

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO31X3H7H	A0->Y (FF)	0.12503	0.28696	0.66922
	A1->Y (FF)	0.11726	0.27783	0.65602
	A2->Y (FF)	0.11061	0.26911	0.64272
	B0->Y (FF)	0.11628	0.27342	0.64858

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO31X3H7H	A0	0.00097	0.00107	0.00119
	A0	0.00007	0.00007	0.00007
	A0	-0.00009	-0.00009	-0.00009
	A0	0.00253	0.00264	0.00275
	A1	0.00099	0.00108	0.00119
	A1	0.00007	0.00007	0.00007
	A1	-0.00005	-0.00005	-0.00005
	A1	0.00230	0.00239	0.00250
	A2	0.00097	0.00106	0.00118
	A2	0.00007	0.00007	0.00007
	A2	0.00000	0.00000	0.00000
	A2	0.00211	0.00220	0.00232
	B0	0.00101	0.00114	0.00125
	B0	-0.00004	-0.00003	-0.00001
	B0	0.00000	0.00000	0.00000
	B0	0.00227	0.00240	0.00251

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO31X3H7H	A0	0.00266	0.00276	0.00286
	A0	-0.00007	-0.00007	-0.00007
	A0	0.00009	0.00009	0.00009
	A0	0.00109	0.00119	0.00130
	A1	0.00249	0.00259	0.00269
	A1	-0.00007	-0.00007	-0.00007
	A1	0.00005	0.00005	0.00005
	A1	0.00113	0.00123	0.00133
	A2	0.00233	0.00245	0.00255
	A2	-0.00007	-0.00007	-0.00007
	A2	-0.00000	-0.00000	-0.00000
	A2	0.00112	0.00123	0.00134
	B0	0.00225	0.00235	0.00247
	B0	0.00003	0.00004	0.00005
	B0	0.00009	0.00009	0.00009
	B0	0.00106	0.00116	0.00128

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X3H7H	(A1 * A2 * B0 * Y)	-0.00012	-0.00010	-0.00009
	(A1 * A2 * B0 * Y)	-0.00003	-0.00003	-0.00002
	(A1 * A2 * B0 * Y)	0.00000	0.00001	0.00001
	(A1 * A2 * B0 * Y)	0.00033	0.00033	0.00033
	(A1 * !A2 * B0 * Y)	-0.00016	-0.00016	-0.00015
	(A1 * !A2 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * Y)	0.00002	0.00002	0.00002
	(A1 * !A2 * B0 * Y)	0.00028	0.00028	0.00029
	(A1 * !A2 * !B0 * !Y)	-0.00022	-0.00022	-0.00022
	(A1 * !A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !B0 * !Y)	0.00002	0.00002	0.00002
	(A1 * !A2 * !B0 * !Y)	0.00021	0.00022	0.00022
	(!A1 * B0 * Y)	-0.00016	-0.00016	-0.00015
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * Y)	0.00001	0.00002	0.00002
	(!A1 * B0 * Y)	0.00029	0.00029	0.00029
	(!A1 * A2 * !B0 * !Y)	-0.00022	-0.00022	-0.00022
	(!A1 * A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * !Y)	0.00001	0.00002	0.00002
	(!A1 * A2 * !B0 * !Y)	0.00022	0.00023	0.00023
	(!A1 * !A2 * !B0 * !Y)	-0.00022	-0.00022	-0.00022
	(!A1 * !A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B0 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !A2 * !B0 * !Y)	0.00022	0.00022	0.00023

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X3H7H	(A1 * A2 * B0 * Y)	0.00011	0.00012	0.00012
	(A1 * A2 * B0 * Y)	0.00002	0.00003	0.00003
	(A1 * A2 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * A2 * B0 * Y)	-0.00033	-0.00033	-0.00033
	(A1 * !A2 * B0 * Y)	0.00016	0.00016	0.00016
	(A1 * !A2 * B0 * Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * B0 * Y)	-0.00029	-0.00027	-0.00026
	(A1 * !A2 * !B0 * !Y)	0.00022	0.00022	0.00022
	(A1 * !A2 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * !B0 * !Y)	-0.00022	-0.00021	-0.00018
	(!A1 * B0 * Y)	0.00016	0.00016	0.00016
	(!A1 * B0 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * B0 * Y)	-0.00029	-0.00028	-0.00027
	(!A1 * A2 * !B0 * !Y)	0.00022	0.00022	0.00022
	(!A1 * A2 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * A2 * !B0 * !Y)	-0.00022	-0.00021	-0.00020
	(!A1 * !A2 * !B0 * !Y)	0.00022	0.00022	0.00022
	(!A1 * !A2 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !A2 * !B0 * !Y)	-0.00022	-0.00022	-0.00021

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X3H7H	(A0 * A2 * B0 * Y)	-0.00012	-0.00010	-0.00008
	(A0 * A2 * B0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A2 * B0 * Y)	0.00000	0.00001	0.00001
	(A0 * A2 * B0 * Y)	0.00027	0.00027	0.00027
	(A0 * !A2 * B0 * Y)	-0.00016	-0.00016	-0.00016
	(A0 * !A2 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * B0 * Y)	0.00002	0.00002	0.00002
	(A0 * !A2 * B0 * Y)	0.00022	0.00023	0.00023
	(A0 * !A2 * !B0 * !Y)	-0.00019	-0.00019	-0.00019
	(A0 * !A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B0 * !Y)	0.00002	0.00002	0.00002
	(A0 * !A2 * !B0 * !Y)	0.00020	0.00020	0.00020
	(!A0 * A2 * B0 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * A2 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B0 * Y)	0.00002	0.00002	0.00002
	(!A0 * A2 * B0 * Y)	0.00022	0.00022	0.00023
	(!A0 * A2 * !B0 * !Y)	-0.00019	-0.00019	-0.00018
	(!A0 * A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * !B0 * !Y)	0.00005	0.00005	0.00005
	(!A0 * A2 * !B0 * !Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * B0 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !A2 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * B0 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * B0 * Y)	0.00009	0.00009	0.00009
	(!A0 * !A2 * !B0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A0 * !A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * !B0 * !Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * !B0 * !Y)	0.00006	0.00006	0.00007

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X3H7H	(A0 * A2 * B0 * Y)	0.00012	0.00012	0.00012
	(A0 * A2 * B0 * Y)	0.00003	0.00003	0.00003
	(A0 * A2 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A2 * B0 * Y)	-0.00027	-0.00027	-0.00027
	(A0 * !A2 * B0 * Y)	0.00016	0.00016	0.00016
	(A0 * !A2 * B0 * Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A2 * B0 * Y)	-0.00023	-0.00022	-0.00021
	(A0 * !A2 * !B0 * !Y)	0.00019	0.00019	0.00020
	(A0 * !A2 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A2 * !B0 * !Y)	-0.00020	-0.00019	-0.00018
	(!A0 * A2 * B0 * Y)	0.00016	0.00016	0.00016
	(!A0 * A2 * B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A2 * B0 * Y)	-0.00023	-0.00022	-0.00020
	(!A0 * A2 * !B0 * !Y)	0.00019	0.00019	0.00019
	(!A0 * A2 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * !B0 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * A2 * !B0 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * B0 * Y)	0.00016	0.00016	0.00016
	(!A0 * !A2 * B0 * Y)	0.00001	0.00001	0.00002
	(!A0 * !A2 * B0 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * B0 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A2 * !B0 * !Y)	0.00019	0.00019	0.00019
	(!A0 * !A2 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A2 * !B0 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * !B0 * !Y)	-0.00007	-0.00006	-0.00006

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X3H7H	(A0 * A1 * B0 * Y)	-0.00012	-0.00010	-0.00008
	(A0 * A1 * B0 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * A1 * B0 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B0 * Y)	0.00028	0.00029	0.00029
	(!A1 * B0 * Y)	-0.00016	-0.00016	-0.00016
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * Y)	0.00024	0.00024	0.00025
	(!A1 * !B0 * !Y)	-0.00027	-0.00026	-0.00026
	(!A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !Y)	0.00003	0.00003	0.00004
	(!A1 * !B0 * !Y)	0.00005	0.00006	0.00006
	(!A0 * A1 * B0 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * B0 * Y)	0.00024	0.00024	0.00024
	(!A0 * A1 * !B0 * !Y)	-0.00027	-0.00027	-0.00026
	(!A0 * A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * !Y)	0.00002	0.00003	0.00004
	(!A0 * A1 * !B0 * !Y)	0.00005	0.00006	0.00007

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X3H7H	(A0 * A1 * B0 * Y)	0.00011	0.00012	0.00012
	(A0 * A1 * B0 * Y)	0.00002	0.00003	0.00003
	(A0 * A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * Y)	-0.00029	-0.00028	-0.00028
	(!A1 * B0 * Y)	0.00016	0.00016	0.00016
	(!A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * Y)	-0.00025	-0.00024	-0.00023
	(!A1 * !B0 * !Y)	0.00026	0.00027	0.00027
	(!A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !Y)	-0.00004	-0.00003	-0.00003
	(!A1 * !B0 * !Y)	-0.00006	-0.00006	-0.00005
	(!A0 * A1 * B0 * Y)	0.00016	0.00016	0.00016
	(!A0 * A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * B0 * Y)	-0.00024	-0.00022	-0.00020
	(!A0 * A1 * !B0 * !Y)	0.00026	0.00027	0.00027
	(!A0 * A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * !Y)	-0.00004	-0.00003	-0.00002
	(!A0 * A1 * !B0 * !Y)	-0.00007	-0.00006	-0.00005

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X3H7H	(A0 * A1 * A2 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * A2 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * A1 * A2 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * A2 * Y)	0.00039	0.00039	0.00039

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X3H7H	(A0 * A1 * A2 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * A2 * Y)	0.00002	0.00003	0.00004
	(A0 * A1 * A2 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * A2 * Y)	-0.00039	-0.00039	-0.00039

AO31X4H7H

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

Cell Description

AO

Y=(A0 & A1 & A2)B0

Truth Table

INPUT				OUTPUT
A0	A1	A2	B0	Y
0	x	x	0	0
x	x	x	1	1
1	0	x	0	0
1	1	0	0	0
1	1	1	x	1

Footprint

Cell Name	Area
AO31X4H7H	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	A2	B0	Y
AO31X4H7H	0.00105	0.00098	0.00107	0.00115	0.10923

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO31X4H7H	0.00000	0.05324	0.06234

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO31X4H7H	A0->Y (RR)	0.11872	0.30402	0.75303
	A1->Y (RR)	0.11455	0.30428	0.76379
	A2->Y (RR)	0.10934	0.29480	0.74273
	B0->Y (RR)	0.04887	0.22909	0.66604

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO31X4H7H	A0->Y (FF)	0.11871	0.28149	0.66508
	A1->Y (FF)	0.11157	0.27290	0.65259
	A2->Y (FF)	0.10513	0.26440	0.63939
	B0->Y (FF)	0.10965	0.26762	0.64327

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO31X4H7H	A0	0.00114	0.00126	0.00139
	A0	0.00008	0.00008	0.00008
	A0	-0.00011	-0.00011	-0.00011
	A0	0.00288	0.00301	0.00314
	A1	0.00115	0.00126	0.00139
	A1	0.00008	0.00008	0.00008
	A1	-0.00005	-0.00005	-0.00005
	A1	0.00263	0.00274	0.00286
	A2	0.00114	0.00125	0.00139
	A2	0.00008	0.00008	0.00008
	A2	0.00001	0.00001	0.00001
	A2	0.00239	0.00250	0.00264
	B0	0.00117	0.00132	0.00145
	B0	-0.00005	-0.00004	0.00001
	B0	0.00000	0.00001	0.00001
	B0	0.00255	0.00270	0.00282

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO31X4H7H	A0	0.00303	0.00315	0.00327
	A0	-0.00008	-0.00008	-0.00008
	A0	0.00011	0.00011	0.00011
	A0	0.00128	0.00139	0.00152
	A1	0.00284	0.00296	0.00308
	A1	-0.00008	-0.00008	-0.00008
	A1	0.00005	0.00005	0.00005
	A1	0.00132	0.00144	0.00155
	A2	0.00266	0.00280	0.00291
	A2	-0.00008	-0.00008	-0.00008
	A2	-0.00001	-0.00001	-0.00001
	A2	0.00132	0.00145	0.00157
	B0	0.00255	0.00267	0.00281
	B0	0.00003	0.00005	0.00007
	B0	0.00011	0.00011	0.00011
	B0	0.00125	0.00138	0.00151

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X4H7H	(A1 * A2 * B0 * Y)	-0.00014	-0.00012	-0.00008
	(A1 * A2 * B0 * Y)	-0.00004	-0.00003	-0.00002
	(A1 * A2 * B0 * Y)	0.00000	0.00001	0.00001
	(A1 * A2 * B0 * Y)	0.00035	0.00035	0.00036
	(A1 * !A2 * B0 * Y)	-0.00019	-0.00019	-0.00019
	(A1 * !A2 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * B0 * Y)	0.00002	0.00002	0.00002
	(A1 * !A2 * B0 * Y)	0.00030	0.00030	0.00031
	(A1 * !A2 * !B0 * !Y)	-0.00026	-0.00026	-0.00025
	(A1 * !A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !B0 * !Y)	0.00002	0.00002	0.00003
	(A1 * !A2 * !B0 * !Y)	0.00023	0.00024	0.00024
	(!A1 * B0 * Y)	-0.00019	-0.00019	-0.00018
	(!A1 * B0 * Y)	-0.00002	-0.00001	-0.00001
	(!A1 * B0 * Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * Y)	0.00031	0.00031	0.00031
	(!A1 * A2 * !B0 * !Y)	-0.00026	-0.00026	-0.00025
	(!A1 * A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * !Y)	0.00001	0.00002	0.00003
	(!A1 * A2 * !B0 * !Y)	0.00024	0.00025	0.00025
	(!A1 * !A2 * !B0 * !Y)	-0.00026	-0.00026	-0.00025
	(!A1 * !A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B0 * !Y)	0.00001	0.00002	0.00003
	(!A1 * !A2 * !B0 * !Y)	0.00024	0.00024	0.00025

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X4H7H	(A1 * A2 * B0 * Y)	0.00013	0.00014	0.00015
	(A1 * A2 * B0 * Y)	0.00002	0.00003	0.00004
	(A1 * A2 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * A2 * B0 * Y)	-0.00035	-0.00035	-0.00035
	(A1 * !A2 * B0 * Y)	0.00019	0.00019	0.00020
	(A1 * !A2 * B0 * Y)	0.00000	0.00001	0.00001
	(A1 * !A2 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * B0 * Y)	-0.00031	-0.00029	-0.00027
	(A1 * !A2 * !B0 * !Y)	0.00026	0.00026	0.00026
	(A1 * !A2 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * !B0 * !Y)	-0.00003	-0.00002	-0.00002
	(A1 * !A2 * !B0 * !Y)	-0.00024	-0.00022	-0.00020
	(!A1 * B0 * Y)	0.00018	0.00019	0.00019
	(!A1 * B0 * Y)	0.00001	0.00001	0.00002
	(!A1 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * Y)	-0.00031	-0.00030	-0.00029
	(!A1 * A2 * !B0 * !Y)	0.00025	0.00026	0.00026
	(!A1 * A2 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * A2 * !B0 * !Y)	-0.00024	-0.00023	-0.00021
	(!A1 * !A2 * !B0 * !Y)	0.00025	0.00026	0.00026
	(!A1 * !A2 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !A2 * !B0 * !Y)	-0.00024	-0.00023	-0.00023

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X4H7H	(A0 * A2 * B0 * Y)	-0.00014	-0.00012	-0.00009
	(A0 * A2 * B0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A2 * B0 * Y)	0.00001	0.00001	0.00001
	(A0 * A2 * B0 * Y)	0.00029	0.00030	0.00030
	(A0 * !A2 * B0 * Y)	-0.00019	-0.00019	-0.00018
	(A0 * !A2 * B0 * Y)	-0.00002	-0.00001	-0.00001
	(A0 * !A2 * B0 * Y)	0.00002	0.00002	0.00002
	(A0 * !A2 * B0 * Y)	0.00025	0.00025	0.00025
	(A0 * !A2 * !B0 * !Y)	-0.00022	-0.00022	-0.00022
	(A0 * !A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B0 * !Y)	0.00002	0.00002	0.00002
	(A0 * !A2 * !B0 * !Y)	0.00022	0.00023	0.00023
	(!A0 * A2 * B0 * Y)	-0.00019	-0.00019	-0.00018
	(!A0 * A2 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B0 * Y)	0.00002	0.00002	0.00002
	(!A0 * A2 * B0 * Y)	0.00025	0.00025	0.00025
	(!A0 * A2 * !B0 * !Y)	-0.00022	-0.00022	-0.00021
	(!A0 * A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * !B0 * !Y)	0.00006	0.00006	0.00006
	(!A0 * A2 * !B0 * !Y)	0.00006	0.00007	0.00007
	(!A0 * !A2 * B0 * Y)	-0.00019	-0.00019	-0.00018
	(!A0 * !A2 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * B0 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A2 * B0 * Y)	0.00010	0.00010	0.00010
	(!A0 * !A2 * !B0 * !Y)	-0.00022	-0.00022	-0.00022
	(!A0 * !A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * !B0 * !Y)	0.00007	0.00007	0.00007
	(!A0 * !A2 * !B0 * !Y)	0.00007	0.00007	0.00007

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X4H7H	(A0 * A2 * B0 * Y)	0.00014	0.00014	0.00014
	(A0 * A2 * B0 * Y)	0.00003	0.00003	0.00003
	(A0 * A2 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A2 * B0 * Y)	-0.00030	-0.00029	-0.00029
	(A0 * !A2 * B0 * Y)	0.00018	0.00019	0.00019
	(A0 * !A2 * B0 * Y)	0.00001	0.00001	0.00002
	(A0 * !A2 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A2 * B0 * Y)	-0.00025	-0.00024	-0.00023
	(A0 * !A2 * !B0 * !Y)	0.00022	0.00022	0.00023
	(A0 * !A2 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A2 * !B0 * !Y)	-0.00022	-0.00021	-0.00020
	(!A0 * A2 * B0 * Y)	0.00019	0.00019	0.00019
	(!A0 * A2 * B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A2 * B0 * Y)	-0.00025	-0.00024	-0.00023
	(!A0 * A2 * !B0 * !Y)	0.00022	0.00022	0.00022
	(!A0 * A2 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * !B0 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0 * A2 * !B0 * !Y)	-0.00007	-0.00007	-0.00006
	(!A0 * !A2 * B0 * Y)	0.00019	0.00019	0.00019
	(!A0 * !A2 * B0 * Y)	0.00001	0.00001	0.00002
	(!A0 * !A2 * B0 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A2 * B0 * Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !A2 * !B0 * !Y)	0.00022	0.00022	0.00022
	(!A0 * !A2 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A2 * !B0 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A2 * !B0 * !Y)	-0.00007	-0.00007	-0.00006

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X4H7H	(A0 * A1 * B0 * Y)	-0.00014	-0.00012	-0.00009
	(A0 * A1 * B0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * B0 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B0 * Y)	0.00030	0.00030	0.00031
	(!A1 * B0 * Y)	-0.00019	-0.00019	-0.00018
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * Y)	0.00026	0.00026	0.00026
	(!A1 * !B0 * !Y)	-0.00031	-0.00031	-0.00031
	(!A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !Y)	0.00003	0.00004	0.00005
	(!A1 * !B0 * !Y)	0.00005	0.00006	0.00006
	(!A0 * A1 * B0 * Y)	-0.00019	-0.00019	-0.00018
	(!A0 * A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * B0 * Y)	0.00025	0.00026	0.00026
	(!A0 * A1 * !B0 * !Y)	-0.00031	-0.00031	-0.00030
	(!A0 * A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * !Y)	0.00003	0.00004	0.00004
	(!A0 * A1 * !B0 * !Y)	0.00005	0.00006	0.00006

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X4H7H	(A0 * A1 * B0 * Y)	0.00014	0.00014	0.00014
	(A0 * A1 * B0 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * B0 * Y)	-0.00030	-0.00030	-0.00030
	(!A1 * B0 * Y)	0.00019	0.00019	0.00019
	(!A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * Y)	-0.00026	-0.00025	-0.00024
	(!A1 * !B0 * !Y)	0.00031	0.00031	0.00031
	(!A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !Y)	-0.00004	-0.00003	-0.00003
	(!A1 * !B0 * !Y)	-0.00006	-0.00005	-0.00004
	(!A0 * A1 * B0 * Y)	0.00019	0.00019	0.00019
	(!A0 * A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * B0 * Y)	-0.00026	-0.00024	-0.00022
	(!A0 * A1 * !B0 * !Y)	0.00031	0.00031	0.00031
	(!A0 * A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * !Y)	-0.00004	-0.00003	-0.00003
	(!A0 * A1 * !B0 * !Y)	-0.00006	-0.00005	-0.00004

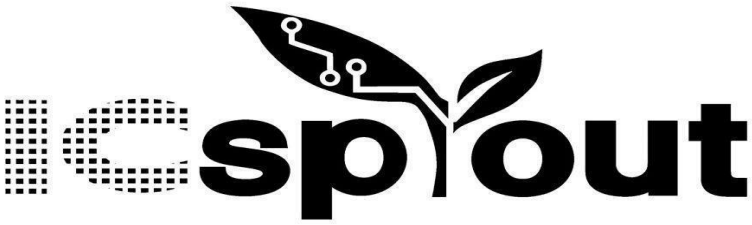
Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X4H7H	(A0 * A1 * A2 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * A2 * Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * A2 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * Y)	0.00041	0.00041	0.00042

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X4H7H	(A0 * A1 * A2 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * A2 * Y)	0.00004	0.00004	0.00005
	(A0 * A1 * A2 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * Y)	-0.00041	-0.00041	-0.00041

AOA211X0P5H7H



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

Truth Table

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

Footprint

Cell Name	Area
AOA211X0P5H7H	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	Y
AOA211X0P5H7H	0.00082	0.00083	0.00090	0.00090	0.03031

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOA211X0P5H7H	0.00000	0.01616	0.02001

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOA211X0P5H7H	A0->Y (RR)	0.11551	0.29394	0.73377
	A1->Y (RR)	0.11648	0.29014	0.71936
	B0->Y (RR)	0.07888	0.25255	0.67810
	C0->Y (RR)	0.10184	0.27423	0.69613

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOA211X0P5H7H	A0->Y (FF)	0.11249	0.25927	0.61352
	A1->Y (FF)	0.11594	0.26519	0.62460
	B0->Y (FF)	0.10705	0.24929	0.59450
	C0->Y (FF)	0.05824	0.19789	0.53252

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOA211X0P5H7H	A0	0.00039	0.00044	0.00050
	A0	0.00009	0.00009	0.00009
	A0	-0.00005	-0.00005	-0.00005
	A0	0.00163	0.00168	0.00173
	A1	0.00039	0.00045	0.00050
	A1	0.00009	0.00009	0.00009
	A1	-0.00009	-0.00009	-0.00009
	A1	0.00175	0.00181	0.00186
	B0	0.00040	0.00046	0.00050
	B0	0.00003	0.00003	0.00003
	B0	-0.00005	-0.00005	-0.00005
	B0	0.00156	0.00161	0.00166
	C0	0.00040	0.00045	0.00051
	C0	0.00009	0.00009	0.00009
	C0	0.00000	0.00000	0.00001
	C0	0.00130	0.00135	0.00142

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOA211X0P5H7H	A0	0.00175	0.00182	0.00187
	A0	-0.00009	-0.00009	-0.00009
	A0	0.00005	0.00005	0.00005
	A0	0.00052	0.00059	0.00064
	A1	0.00186	0.00191	0.00196
	A1	-0.00009	-0.00009	-0.00009
	A1	0.00009	0.00009	0.00009
	A1	0.00053	0.00058	0.00062
	B0	0.00153	0.00158	0.00164
	B0	-0.00003	-0.00003	-0.00003
	B0	0.00009	0.00009	0.00009
	B0	0.00046	0.00051	0.00057
	C0	0.00147	0.00153	0.00159
	C0	-0.00003	-0.00003	-0.00003
	C0	-0.00000	-0.00000	0.00000
	C0	0.00050	0.00056	0.00061

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X0P5H7H	(A1 * B0 * C0 * Y)	-0.00011	-0.00009	-0.00007
	(A1 * B0 * C0 * Y)	-0.00003	-0.00002	-0.00002
	(A1 * B0 * C0 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * C0 * Y)	0.00026	0.00027	0.00027
	(A1 * B0 * !C0 * !Y)	-0.00011	-0.00009	-0.00007
	(A1 * B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * !Y)	0.00026	0.00026	0.00027
	(A1 * !B0 * !C0 * !Y)	-0.00016	-0.00016	-0.00015
	(A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00002
	(A1 * !B0 * !C0 * !Y)	0.00021	0.00021	0.00021
	(!A1 * B0 * C0 * Y)	-0.00016	-0.00015	-0.00015
	(!A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * C0 * Y)	0.00001	0.00001	0.00002
	(!A1 * B0 * C0 * Y)	0.00022	0.00023	0.00023
	(!A1 * B0 * !C0 * !Y)	-0.00016	-0.00015	-0.00015
	(!A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !C0 * !Y)	0.00022	0.00023	0.00023
	(!A1 * !B0 * C0 * !Y)	-0.00016	-0.00016	-0.00016
	(!A1 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * !Y)	0.00004	0.00004	0.00004
	(!A1 * !B0 * C0 * !Y)	0.00008	0.00009	0.00009
	(!A1 * !B0 * !C0 * !Y)	-0.00016	-0.00016	-0.00016
	(!A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * !Y)	0.00004	0.00005	0.00005
	(!A1 * !B0 * !C0 * !Y)	0.00008	0.00009	0.00009

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X0P5H7H	(A1 * B0 * C0 * Y)	0.00011	0.00011	0.00011
	(A1 * B0 * C0 * Y)	0.00002	0.00002	0.00003
	(A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * Y)	-0.00026	-0.00026	-0.00026
	(A1 * B0 * !C0 * !Y)	0.00011	0.00011	0.00011
	(A1 * B0 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * !Y)	-0.00026	-0.00026	-0.00026
	(A1 * !B0 * !C0 * !Y)	0.00016	0.00016	0.00016
	(A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !C0 * !Y)	-0.00002	-0.00001	-0.00001
	(A1 * !B0 * !C0 * !Y)	-0.00021	-0.00020	-0.00017
	(!A1 * B0 * C0 * Y)	0.00016	0.00016	0.00016
	(!A1 * B0 * C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * C0 * Y)	-0.00002	-0.00001	-0.00001
	(!A1 * B0 * C0 * Y)	-0.00023	-0.00022	-0.00021
	(!A1 * B0 * !C0 * !Y)	0.00015	0.00015	0.00016
	(!A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !C0 * !Y)	-0.00023	-0.00022	-0.00021
	(!A1 * !B0 * C0 * !Y)	0.00016	0.00016	0.00016
	(!A1 * !B0 * C0 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * C0 * !Y)	-0.00004	-0.00004	-0.00004
	(!A1 * !B0 * C0 * !Y)	-0.00009	-0.00008	-0.00008
	(!A1 * !B0 * !C0 * !Y)	0.00016	0.00016	0.00016
	(!A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C0 * !Y)	-0.00005	-0.00005	-0.00004
	(!A1 * !B0 * !C0 * !Y)	-0.00009	-0.00009	-0.00008

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X0P5H7H	(A0 * B0 * C0 * Y)	-0.00011	-0.00009	-0.00007
	(A0 * B0 * C0 * Y)	-0.00003	-0.00002	-0.00002
	(A0 * B0 * C0 * Y)	-0.00000	0.00000	0.00001
	(A0 * B0 * C0 * Y)	0.00024	0.00025	0.00025
	(A0 * B0 * !C0 * !Y)	-0.00011	-0.00009	-0.00007
	(A0 * B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * !Y)	0.00024	0.00024	0.00025
	(A0 * !B0 * !C0 * !Y)	-0.00016	-0.00016	-0.00016
	(A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !C0 * !Y)	0.00019	0.00020	0.00020
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	0.00020	0.00020	0.00021
	(!A0 * !B0 * C0 * !Y)	-0.00016	-0.00016	-0.00015
	(!A0 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * C0 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !B0 * C0 * !Y)	0.00019	0.00020	0.00020
	(!A0 * !B0 * !C0 * !Y)	-0.00016	-0.00016	-0.00015
	(!A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !B0 * !C0 * !Y)	0.00020	0.00020	0.00020

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X0P5H7H	(A0 * B0 * C0 * Y)	0.00011	0.00011	0.00011
	(A0 * B0 * C0 * Y)	0.00002	0.00002	0.00003
	(A0 * B0 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * C0 * Y)	-0.00025	-0.00024	-0.00024
	(A0 * B0 * !C0 * !Y)	0.00011	0.00011	0.00011
	(A0 * B0 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !C0 * !Y)	-0.00024	-0.00024	-0.00024
	(A0 * !B0 * !C0 * !Y)	0.00016	0.00016	0.00016
	(A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !C0 * !Y)	-0.00020	-0.00019	-0.00016
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	0.00016	0.00016	0.00016
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	-0.00021	-0.00020	-0.00019
	(!A0 * !B0 * C0 * !Y)	0.00015	0.00016	0.00016
	(!A0 * !B0 * C0 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !B0 * C0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !B0 * C0 * !Y)	-0.00020	-0.00019	-0.00018
	(!A0 * !B0 * !C0 * !Y)	0.00016	0.00016	0.00016
	(!A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B0 * !C0 * !Y)	-0.00020	-0.00019	-0.00018

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X0P5H7H	(A0 * A1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * C0 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * A1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * Y)	0.00033	0.00033	0.00033
	(A0 * A1 * !C0 * !Y)	-0.00012	-0.00011	-0.00009
	(A0 * A1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * !Y)	0.00026	0.00026	0.00027
	(A0 * !A1 * !C0 * !Y)	-0.00016	-0.00016	-0.00016
	(A0 * !A1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * !C0 * !Y)	0.00020	0.00020	0.00021
	(!A0 * !C0 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !C0 * !Y)	0.00021	0.00021	0.00021

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X0P5H7H	(A0 * A1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * Y)	0.00002	0.00003	0.00004
	(A0 * A1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * C0 * Y)	-0.00033	-0.00033	-0.00033
	(A0 * A1 * !C0 * !Y)	0.00012	0.00012	0.00012
	(A0 * A1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !C0 * !Y)	-0.00027	-0.00026	-0.00026
	(A0 * !A1 * !C0 * !Y)	0.00016	0.00016	0.00016
	(A0 * !A1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * !C0 * !Y)	-0.00020	-0.00019	-0.00017
	(!A0 * !C0 * !Y)	0.00016	0.00016	0.00016
	(!A0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !C0 * !Y)	-0.00021	-0.00020	-0.00018

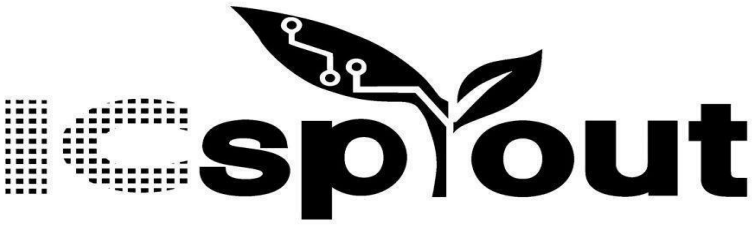
Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X0P5H7H	(A0 * !A1 * !B0 * !Y)	-0.00025	-0.00025	-0.00025
	(A0 * !A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B0 * !Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * !B0 * !Y)	0.00005	0.00005	0.00006
	(!A0 * !B0 * !Y)	-0.00025	-0.00025	-0.00025
	(!A0 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !Y)	0.00001	0.00002	0.00003
	(!A0 * !B0 * !Y)	0.00005	0.00006	0.00006

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X0P5H7H	(A0 * !A1 * !B0 * !Y)	0.00025	0.00025	0.00025
	(A0 * !A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * !B0 * !Y)	-0.00006	-0.00005	-0.00005
	(!A0 * !B0 * !Y)	0.00025	0.00025	0.00025
	(!A0 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B0 * !Y)	-0.00006	-0.00006	-0.00005

AOA211X0P7H7H



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

Truth Table

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

Footprint

Cell Name	Area
AOA211X0P7H7H	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	Y
AOA211X0P7H7H	0.00081	0.00083	0.00090	0.00090	0.03451

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOA211X0P7H7H	0.00000	0.01659	0.02206

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOA211X0P7H7H	A0->Y (RR)	0.11457	0.29413	0.73657
	A1->Y (RR)	0.11553	0.29026	0.72115
	B0->Y (RR)	0.07775	0.25233	0.67975
	C0->Y (RR)	0.10097	0.27465	0.69898

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOA211X0P7H7H	A0->Y (FF)	0.11254	0.26101	0.61821
	A1->Y (FF)	0.11600	0.26695	0.62979
	B0->Y (FF)	0.10717	0.25110	0.59987
	C0->Y (FF)	0.05757	0.19896	0.53731

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOA211X0P7H7H	A0	0.00042	0.00047	0.00053
	A0	0.00009	0.00009	0.00009
	A0	-0.00005	-0.00005	-0.00003
	A0	0.00164	0.00170	0.00176
	A1	0.00042	0.00047	0.00053
	A1	0.00009	0.00009	0.00009
	A1	-0.00008	-0.00009	-0.00008
	A1	0.00177	0.00183	0.00189
	B0	0.00042	0.00048	0.00053
	B0	0.00002	0.00003	0.00003
	B0	-0.00005	-0.00005	-0.00004
	B0	0.00158	0.00164	0.00168
	C0	0.00042	0.00048	0.00054
	C0	0.00009	0.00009	0.00009
	C0	0.00000	0.00000	0.00001
	C0	0.00132	0.00137	0.00144

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOA211X0P7H7H	A0	0.00177	0.00184	0.00189
	A0	-0.00009	-0.00009	-0.00009
	A0	0.00005	0.00005	0.00005
	A0	0.00055	0.00061	0.00067
	A1	0.00188	0.00194	0.00198
	A1	-0.00009	-0.00009	-0.00009
	A1	0.00008	0.00009	0.00008
	A1	0.00056	0.00060	0.00065
	B0	0.00155	0.00160	0.00167
	B0	-0.00003	-0.00003	-0.00002
	B0	0.00008	0.00008	0.00008
	B0	0.00048	0.00054	0.00060
	C0	0.00149	0.00156	0.00161
	C0	-0.00003	-0.00003	-0.00002
	C0	-0.00000	-0.00000	0.00000
	C0	0.00052	0.00059	0.00064

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X0P7H7H	(A1 * B0 * C0 * Y)	-0.00011	-0.00009	-0.00007
	(A1 * B0 * C0 * Y)	-0.00003	-0.00002	-0.00002
	(A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * Y)	0.00026	0.00027	0.00028
	(A1 * B0 * !C0 * !Y)	-0.00011	-0.00009	-0.00007
	(A1 * B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * !Y)	0.00026	0.00026	0.00027
	(A1 * !B0 * !C0 * !Y)	-0.00016	-0.00016	-0.00015
	(A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !C0 * !Y)	0.00001	0.00002	0.00002
	(A1 * !B0 * !C0 * !Y)	0.00021	0.00021	0.00021
	(!A1 * B0 * C0 * Y)	-0.00016	-0.00015	-0.00015
	(!A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * C0 * Y)	0.00001	0.00001	0.00002
	(!A1 * B0 * C0 * Y)	0.00022	0.00023	0.00023
	(!A1 * B0 * !C0 * !Y)	-0.00016	-0.00015	-0.00015
	(!A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !C0 * !Y)	0.00022	0.00023	0.00023
	(!A1 * !B0 * C0 * !Y)	-0.00016	-0.00016	-0.00016
	(!A1 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * !Y)	0.00004	0.00004	0.00004
	(!A1 * !B0 * C0 * !Y)	0.00008	0.00008	0.00008
	(!A1 * !B0 * !C0 * !Y)	-0.00016	-0.00016	-0.00016
	(!A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * !Y)	0.00005	0.00005	0.00005
	(!A1 * !B0 * !C0 * !Y)	0.00008	0.00009	0.00009

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X0P7H7H	(A1 * B0 * C0 * Y)	0.00011	0.00011	0.00011
	(A1 * B0 * C0 * Y)	0.00002	0.00002	0.00003
	(A1 * B0 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * C0 * Y)	-0.00027	-0.00026	-0.00026
	(A1 * B0 * !C0 * !Y)	0.00011	0.00011	0.00011
	(A1 * B0 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * !Y)	-0.00026	-0.00026	-0.00026
	(A1 * !B0 * !C0 * !Y)	0.00016	0.00016	0.00016
	(A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * !B0 * !C0 * !Y)	-0.00021	-0.00019	-0.00016
	(!A1 * B0 * C0 * Y)	0.00015	0.00016	0.00016
	(!A1 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * C0 * Y)	-0.00002	-0.00001	-0.00001
	(!A1 * B0 * C0 * Y)	-0.00023	-0.00022	-0.00021
	(!A1 * B0 * !C0 * !Y)	0.00015	0.00015	0.00016
	(!A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !C0 * !Y)	-0.00023	-0.00022	-0.00021
	(!A1 * !B0 * C0 * !Y)	0.00016	0.00016	0.00016
	(!A1 * !B0 * C0 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * C0 * !Y)	-0.00004	-0.00004	-0.00003
	(!A1 * !B0 * C0 * !Y)	-0.00008	-0.00008	-0.00008
	(!A1 * !B0 * !C0 * !Y)	0.00016	0.00016	0.00016
	(!A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C0 * !Y)	-0.00005	-0.00005	-0.00004
	(!A1 * !B0 * !C0 * !Y)	-0.00009	-0.00009	-0.00008

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X0P7H7H	(A0 * B0 * C0 * Y)	-0.00011	-0.00009	-0.00007
	(A0 * B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * C0 * Y)	-0.00000	0.00000	0.00001
	(A0 * B0 * C0 * Y)	0.00024	0.00024	0.00025
	(A0 * B0 * !C0 * !Y)	-0.00011	-0.00009	-0.00007
	(A0 * B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * !Y)	0.00024	0.00024	0.00024
	(A0 * !B0 * !C0 * !Y)	-0.00016	-0.00016	-0.00016
	(A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00002
	(A0 * !B0 * !C0 * !Y)	0.00019	0.00019	0.00020
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	0.00001	0.00001	0.00002
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	0.00020	0.00020	0.00021
	(!A0 * !B0 * C0 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * C0 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !B0 * C0 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !B0 * !C0 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !B0 * !C0 * !Y)	0.00020	0.00020	0.00020

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X0P7H7H	(A0 * B0 * C0 * Y)	0.00011	0.00011	0.00011
	(A0 * B0 * C0 * Y)	0.00002	0.00002	0.00002
	(A0 * B0 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * C0 * Y)	-0.00024	-0.00024	-0.00024
	(A0 * B0 * !C0 * !Y)	0.00011	0.00011	0.00011
	(A0 * B0 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !C0 * !Y)	-0.00024	-0.00024	-0.00024
	(A0 * !B0 * !C0 * !Y)	0.00016	0.00016	0.00016
	(A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !C0 * !Y)	-0.00002	-0.00001	-0.00001
	(A0 * !B0 * !C0 * !Y)	-0.00020	-0.00019	-0.00017
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	0.00016	0.00016	0.00016
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	-0.00021	-0.00020	-0.00019
	(!A0 * !B0 * C0 * !Y)	0.00016	0.00016	0.00016
	(!A0 * !B0 * C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * C0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !B0 * C0 * !Y)	-0.00020	-0.00019	-0.00018
	(!A0 * !B0 * !C0 * !Y)	0.00016	0.00016	0.00016
	(!A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !C0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * !Y)	-0.00020	-0.00019	-0.00017

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X0P7H7H	(A0 * A1 * C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * C0 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * A1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * Y)	0.00033	0.00034	0.00034
	(A0 * A1 * !C0 * !Y)	-0.00012	-0.00011	-0.00009
	(A0 * A1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * !Y)	0.00026	0.00027	0.00027
	(A0 * !A1 * !C0 * !Y)	-0.00016	-0.00016	-0.00016
	(A0 * !A1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * !C0 * !Y)	0.00021	0.00021	0.00021
	(!A0 * !C0 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !C0 * !Y)	0.00021	0.00021	0.00021

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X0P7H7H	(A0 * A1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * Y)	0.00002	0.00003	0.00003
	(A0 * A1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * C0 * Y)	-0.00034	-0.00033	-0.00033
	(A0 * A1 * !C0 * !Y)	0.00012	0.00012	0.00012
	(A0 * A1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !C0 * !Y)	-0.00027	-0.00026	-0.00026
	(A0 * !A1 * !C0 * !Y)	0.00016	0.00016	0.00016
	(A0 * !A1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * !C0 * !Y)	-0.00021	-0.00019	-0.00017
	(!A0 * !C0 * !Y)	0.00016	0.00016	0.00016
	(!A0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !C0 * !Y)	-0.00021	-0.00020	-0.00018

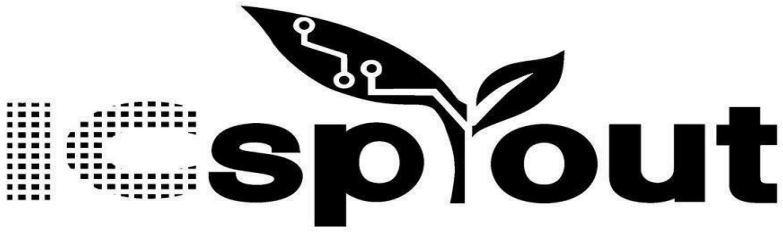
Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X0P7H7H	(A0 * !A1 * !B0 * !Y)	-0.00025	-0.00025	-0.00025
	(A0 * !A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B0 * !Y)	0.00001	0.00002	0.00003
	(A0 * !A1 * !B0 * !Y)	0.00005	0.00005	0.00006
	(!A0 * !B0 * !Y)	-0.00025	-0.00025	-0.00025
	(!A0 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !Y)	0.00001	0.00002	0.00003
	(!A0 * !B0 * !Y)	0.00005	0.00006	0.00007

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X0P7H7H	(A0 * !A1 * !B0 * !Y)	0.00025	0.00025	0.00025
	(A0 * !A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * !A1 * !B0 * !Y)	-0.00006	-0.00005	-0.00005
	(!A0 * !B0 * !Y)	0.00025	0.00025	0.00025
	(!A0 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B0 * !Y)	-0.00006	-0.00006	-0.00005

AOA211X1H7H



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

Truth Table

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

Footprint

Cell Name	Area
AOA211X1H7H	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	Y
AOA211X1H7H	0.00081	0.00083	0.00090	0.00090	0.04122

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOA211X1H7H	0.00000	0.01777	0.02646

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOA211X1H7H	A0->Y (RR)	0.11383	0.29489	0.73901
	A1->Y (RR)	0.11478	0.29090	0.72370
	B0->Y (RR)	0.07671	0.25243	0.68213
	C0->Y (RR)	0.10021	0.27558	0.70259

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOA211X1H7H	A0->Y (FF)	0.11331	0.26611	0.63302
	A1->Y (FF)	0.11677	0.27198	0.64420
	B0->Y (FF)	0.10794	0.25630	0.61498
	C0->Y (FF)	0.05726	0.20303	0.55152

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOA211X1H7H	A0	0.00046	0.00052	0.00058
	A0	0.00008	0.00008	0.00008
	A0	-0.00005	-0.00005	-0.00004
	A0	0.00168	0.00173	0.00179
	A1	0.00046	0.00052	0.00058
	A1	0.00008	0.00008	0.00009
	A1	-0.00008	-0.00008	-0.00008
	A1	0.00180	0.00187	0.00192
	B0	0.00046	0.00053	0.00058
	B0	0.00002	0.00002	0.00002
	B0	-0.00005	-0.00005	-0.00004
	B0	0.00161	0.00167	0.00172
	C0	0.00046	0.00053	0.00059
	C0	0.00008	0.00008	0.00008
	C0	0.00001	0.00001	0.00004
	C0	0.00135	0.00141	0.00148

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOA211X1H7H	A0	0.00180	0.00187	0.00193
	A0	-0.00008	-0.00008	-0.00008
	A0	0.00004	0.00005	0.00005
	A0	0.00059	0.00066	0.00072
	A1	0.00191	0.00197	0.00202
	A1	-0.00009	-0.00008	-0.00008
	A1	0.00008	0.00008	0.00008
	A1	0.00060	0.00065	0.00070
	B0	0.00158	0.00164	0.00170
	B0	-0.00002	-0.00002	-0.00001
	B0	0.00008	0.00008	0.00008
	B0	0.00052	0.00058	0.00065
	C0	0.00152	0.00159	0.00165
	C0	-0.00002	-0.00002	-0.00002
	C0	-0.00001	-0.00001	0.00000
	C0	0.00056	0.00063	0.00069

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X1H7H	(A1 * B0 * C0 * Y)	-0.00011	-0.00009	-0.00007
	(A1 * B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * C0 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * C0 * Y)	0.00026	0.00027	0.00028
	(A1 * B0 * !C0 * !Y)	-0.00011	-0.00009	-0.00007
	(A1 * B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * !Y)	0.00026	0.00026	0.00027
	(A1 * !B0 * !C0 * !Y)	-0.00016	-0.00016	-0.00015
	(A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00002
	(A1 * !B0 * !C0 * !Y)	0.00021	0.00021	0.00021
	(!A1 * B0 * C0 * Y)	-0.00016	-0.00015	-0.00015
	(!A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * C0 * Y)	0.00001	0.00001	0.00002
	(!A1 * B0 * C0 * Y)	0.00022	0.00023	0.00023
	(!A1 * B0 * !C0 * !Y)	-0.00016	-0.00015	-0.00015
	(!A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !C0 * !Y)	0.00022	0.00023	0.00023
	(!A1 * !B0 * C0 * !Y)	-0.00016	-0.00016	-0.00016
	(!A1 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * !Y)	0.00004	0.00004	0.00004
	(!A1 * !B0 * C0 * !Y)	0.00008	0.00008	0.00008
	(!A1 * !B0 * !C0 * !Y)	-0.00016	-0.00016	-0.00016
	(!A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * !Y)	0.00004	0.00005	0.00005
	(!A1 * !B0 * !C0 * !Y)	0.00008	0.00009	0.00009

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X1H7H	(A1 * B0 * C0 * Y)	0.00011	0.00011	0.00011
	(A1 * B0 * C0 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * C0 * Y)	-0.00027	-0.00026	-0.00026
	(A1 * B0 * !C0 * !Y)	0.00011	0.00011	0.00011
	(A1 * B0 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * !Y)	-0.00026	-0.00026	-0.00026
	(A1 * !B0 * !C0 * !Y)	0.00016	0.00016	0.00016
	(A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !C0 * !Y)	-0.00002	-0.00001	-0.00001
	(A1 * !B0 * !C0 * !Y)	-0.00021	-0.00019	-0.00016
	(!A1 * B0 * C0 * Y)	0.00015	0.00016	0.00016
	(!A1 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * C0 * Y)	-0.00002	-0.00001	-0.00001
	(!A1 * B0 * C0 * Y)	-0.00023	-0.00022	-0.00021
	(!A1 * B0 * !C0 * !Y)	0.00015	0.00015	0.00016
	(!A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !C0 * !Y)	-0.00023	-0.00022	-0.00021
	(!A1 * !B0 * C0 * !Y)	0.00016	0.00016	0.00016
	(!A1 * !B0 * C0 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * C0 * !Y)	-0.00004	-0.00004	-0.00003
	(!A1 * !B0 * C0 * !Y)	-0.00008	-0.00008	-0.00008
	(!A1 * !B0 * !C0 * !Y)	0.00016	0.00016	0.00016
	(!A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C0 * !Y)	-0.00005	-0.00005	-0.00004
	(!A1 * !B0 * !C0 * !Y)	-0.00009	-0.00009	-0.00008

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X1H7H	(A0 * B0 * C0 * Y)	-0.00011	-0.00009	-0.00007
	(A0 * B0 * C0 * Y)	-0.00003	-0.00002	-0.00002
	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00001
	(A0 * B0 * C0 * Y)	0.00024	0.00024	0.00026
	(A0 * B0 * !C0 * !Y)	-0.00011	-0.00009	-0.00007
	(A0 * B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * !Y)	0.00024	0.00024	0.00024
	(A0 * !B0 * !C0 * !Y)	-0.00016	-0.00016	-0.00016
	(A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00002
	(A0 * !B0 * !C0 * !Y)	0.00019	0.00020	0.00020
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	0.00001	0.00001	0.00002
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	0.00020	0.00020	0.00021
	(!A0 * !B0 * C0 * !Y)	-0.00016	-0.00016	-0.00015
	(!A0 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * C0 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !B0 * C0 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !B0 * !C0 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !B0 * !C0 * !Y)	0.00020	0.00020	0.00020

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X1H7H	(A0 * B0 * C0 * Y)	0.00010	0.00011	0.00011
	(A0 * B0 * C0 * Y)	0.00002	0.00002	0.00003
	(A0 * B0 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * C0 * Y)	-0.00024	-0.00024	-0.00023
	(A0 * B0 * !C0 * !Y)	0.00011	0.00011	0.00011
	(A0 * B0 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !C0 * !Y)	-0.00024	-0.00024	-0.00024
	(A0 * !B0 * !C0 * !Y)	0.00016	0.00016	0.00016
	(A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !C0 * !Y)	-0.00002	-0.00001	-0.00001
	(A0 * !B0 * !C0 * !Y)	-0.00020	-0.00019	-0.00017
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	0.00016	0.00016	0.00016
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	-0.00021	-0.00020	-0.00019
	(!A0 * !B0 * C0 * !Y)	0.00015	0.00016	0.00016
	(!A0 * !B0 * C0 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !B0 * C0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !B0 * C0 * !Y)	-0.00020	-0.00019	-0.00017
	(!A0 * !B0 * !C0 * !Y)	0.00016	0.00016	0.00016
	(!A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !C0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * !Y)	-0.00020	-0.00019	-0.00017

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X1H7H	(A0 * A1 * C0 * Y)	-0.00000	0.00000	0.00001
	(A0 * A1 * C0 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * A1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * Y)	0.00033	0.00033	0.00034
	(A0 * A1 * !C0 * !Y)	-0.00012	-0.00011	-0.00009
	(A0 * A1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * !Y)	0.00026	0.00027	0.00027
	(A0 * !A1 * !C0 * !Y)	-0.00016	-0.00016	-0.00016
	(A0 * !A1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * !C0 * !Y)	0.00020	0.00021	0.00021
	(!A0 * !C0 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !C0 * !Y)	0.00021	0.00021	0.00021

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X1H7H	(A0 * A1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * Y)	0.00002	0.00003	0.00003
	(A0 * A1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * C0 * Y)	-0.00034	-0.00033	-0.00033
	(A0 * A1 * !C0 * !Y)	0.00012	0.00012	0.00012
	(A0 * A1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !C0 * !Y)	-0.00027	-0.00027	-0.00026
	(A0 * !A1 * !C0 * !Y)	0.00016	0.00016	0.00016
	(A0 * !A1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * !C0 * !Y)	-0.00021	-0.00019	-0.00017
	(!A0 * !C0 * !Y)	0.00016	0.00016	0.00016
	(!A0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !C0 * !Y)	-0.00021	-0.00020	-0.00018

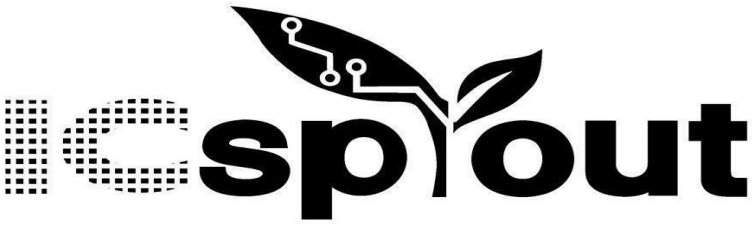
Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X1H7H	(A0 * !A1 * !B0 * !Y)	-0.00025	-0.00025	-0.00025
	(A0 * !A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B0 * !Y)	0.00002	0.00003	0.00003
	(A0 * !A1 * !B0 * !Y)	0.00005	0.00005	0.00005
	(!A0 * !B0 * !Y)	-0.00025	-0.00025	-0.00025
	(!A0 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * !Y)	0.00006	0.00006	0.00006

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X1H7H	(A0 * !A1 * !B0 * !Y)	0.00025	0.00025	0.00025
	(A0 * !A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * !B0 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !B0 * !Y)	0.00025	0.00025	0.00025
	(!A0 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * !Y)	-0.00006	-0.00006	-0.00006

AOA211X1P4H7H



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

Truth Table

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

Footprint

Cell Name	Area
AOA211X1P4H7H	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	Y
AOA211X1P4H7H	0.00081	0.00083	0.00090	0.00090	0.04696

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOA211X1P4H7H	0.00000	0.01957	0.03188

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOA211X1P4H7H	A0->Y (RR)	0.11431	0.29681	0.74308
	A1->Y (RR)	0.11526	0.29272	0.72747
	B0->Y (RR)	0.07669	0.25359	0.68567
	C0->Y (RR)	0.10074	0.27776	0.70802

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOA211X1P4H7H	A0->Y (FF)	0.11451	0.26962	0.64099
	A1->Y (FF)	0.11797	0.27548	0.65220
	B0->Y (FF)	0.10907	0.25989	0.62351
	C0->Y (FF)	0.05733	0.20540	0.55869

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOA211X1P4H7H	A0	0.00049	0.00056	0.00062
	A0	0.00008	0.00008	0.00008
	A0	-0.00004	-0.00004	-0.00004
	A0	0.00170	0.00176	0.00182
	A1	0.00049	0.00056	0.00061
	A1	0.00008	0.00008	0.00008
	A1	-0.00008	-0.00008	-0.00007
	A1	0.00183	0.00189	0.00196
	B0	0.00050	0.00057	0.00062
	B0	0.00001	0.00001	0.00002
	B0	-0.00004	-0.00004	-0.00004
	B0	0.00163	0.00170	0.00175
	C0	0.00050	0.00056	0.00064
	C0	0.00008	0.00008	0.00008
	C0	0.00001	0.00001	0.00003
	C0	0.00137	0.00144	0.00151

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOA211X1P4H7H	A0	0.00184	0.00191	0.00198
	A0	-0.00008	-0.00008	-0.00008
	A0	0.00004	0.00004	0.00004
	A0	0.00064	0.00071	0.00077
	A1	0.00195	0.00201	0.00206
	A1	-0.00008	-0.00008	-0.00008
	A1	0.00007	0.00008	0.00008
	A1	0.00065	0.00070	0.00075
	B0	0.00161	0.00168	0.00175
	B0	-0.00001	-0.00001	-0.00001
	B0	0.00007	0.00007	0.00008
	B0	0.00057	0.00063	0.00070
	C0	0.00156	0.00164	0.00170
	C0	-0.00002	-0.00001	-0.00001
	C0	-0.00001	-0.00001	0.00000
	C0	0.00061	0.00068	0.00075

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X1P4H7H	(A1 * B0 * C0 * Y)	-0.00011	-0.00009	-0.00007
	(A1 * B0 * C0 * Y)	-0.00003	-0.00002	-0.00002
	(A1 * B0 * C0 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * C0 * Y)	0.00026	0.00027	0.00027
	(A1 * B0 * !C0 * !Y)	-0.00011	-0.00009	-0.00007
	(A1 * B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * !Y)	0.00026	0.00026	0.00027
	(A1 * !B0 * !C0 * !Y)	-0.00016	-0.00016	-0.00015
	(A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00002
	(A1 * !B0 * !C0 * !Y)	0.00021	0.00021	0.00021
	(!A1 * B0 * C0 * Y)	-0.00016	-0.00015	-0.00015
	(!A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * C0 * Y)	0.00001	0.00001	0.00002
	(!A1 * B0 * C0 * Y)	0.00022	0.00023	0.00023
	(!A1 * B0 * !C0 * !Y)	-0.00016	-0.00015	-0.00015
	(!A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !C0 * !Y)	0.00022	0.00023	0.00023
	(!A1 * !B0 * C0 * !Y)	-0.00016	-0.00016	-0.00016
	(!A1 * !B0 * C0 * !Y)	-0.00001	-0.00001	0.00000
	(!A1 * !B0 * C0 * !Y)	0.00004	0.00004	0.00004
	(!A1 * !B0 * C0 * !Y)	0.00008	0.00008	0.00008
	(!A1 * !B0 * !C0 * !Y)	-0.00016	-0.00016	-0.00016
	(!A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * !Y)	0.00005	0.00005	0.00005
	(!A1 * !B0 * !C0 * !Y)	0.00008	0.00009	0.00009

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X1P4H7H	(A1 * B0 * C0 * Y)	0.00011	0.00011	0.00011
	(A1 * B0 * C0 * Y)	0.00002	0.00002	0.00003
	(A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * Y)	-0.00027	-0.00026	-0.00026
	(A1 * B0 * !C0 * !Y)	0.00011	0.00011	0.00011
	(A1 * B0 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * !Y)	-0.00026	-0.00026	-0.00026
	(A1 * !B0 * !C0 * !Y)	0.00016	0.00016	0.00016
	(A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !C0 * !Y)	-0.00002	-0.00001	-0.00001
	(A1 * !B0 * !C0 * !Y)	-0.00021	-0.00020	-0.00017
	(!A1 * B0 * C0 * Y)	0.00015	0.00015	0.00016
	(!A1 * B0 * C0 * Y)	0.00001	0.00001	0.00002
	(!A1 * B0 * C0 * Y)	-0.00002	-0.00001	-0.00001
	(!A1 * B0 * C0 * Y)	-0.00023	-0.00022	-0.00021
	(!A1 * B0 * !C0 * !Y)	0.00015	0.00015	0.00016
	(!A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !C0 * !Y)	-0.00023	-0.00022	-0.00021
	(!A1 * !B0 * C0 * !Y)	0.00016	0.00016	0.00016
	(!A1 * !B0 * C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * C0 * !Y)	-0.00004	-0.00004	-0.00003
	(!A1 * !B0 * C0 * !Y)	-0.00008	-0.00008	-0.00008
	(!A1 * !B0 * !C0 * !Y)	0.00016	0.00016	0.00016
	(!A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C0 * !Y)	-0.00005	-0.00005	-0.00004
	(!A1 * !B0 * !C0 * !Y)	-0.00009	-0.00009	-0.00008

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X1P4H7H	(A0 * B0 * C0 * Y)	-0.00011	-0.00009	-0.00007
	(A0 * B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00001
	(A0 * B0 * C0 * Y)	0.00024	0.00024	0.00025
	(A0 * B0 * !C0 * !Y)	-0.00011	-0.00009	-0.00007
	(A0 * B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * !Y)	0.00024	0.00024	0.00024
	(A0 * !B0 * !C0 * !Y)	-0.00016	-0.00016	-0.00016
	(A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00002
	(A0 * !B0 * !C0 * !Y)	0.00019	0.00019	0.00020
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	0.00001	0.00001	0.00002
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	0.00020	0.00020	0.00021
	(!A0 * !B0 * C0 * !Y)	-0.00016	-0.00016	-0.00015
	(!A0 * !B0 * C0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * !Y)	0.00019	0.00020	0.00020
	(!A0 * !B0 * !C0 * !Y)	-0.00016	-0.00016	-0.00015
	(!A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !B0 * !C0 * !Y)	0.00020	0.00020	0.00020

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X1P4H7H	(A0 * B0 * C0 * Y)	0.00011	0.00011	0.00011
	(A0 * B0 * C0 * Y)	0.00002	0.00002	0.00002
	(A0 * B0 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * C0 * Y)	-0.00024	-0.00024	-0.00023
	(A0 * B0 * !C0 * !Y)	0.00011	0.00011	0.00011
	(A0 * B0 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !C0 * !Y)	-0.00024	-0.00024	-0.00024
	(A0 * !B0 * !C0 * !Y)	0.00016	0.00016	0.00016
	(A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !C0 * !Y)	-0.00002	-0.00001	-0.00001
	(A0 * !B0 * !C0 * !Y)	-0.00020	-0.00019	-0.00017
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	0.00016	0.00016	0.00016
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	-0.00021	-0.00020	-0.00019
	(!A0 * !B0 * C0 * !Y)	0.00015	0.00016	0.00016
	(!A0 * !B0 * C0 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * !Y)	-0.00020	-0.00019	-0.00018
	(!A0 * !B0 * !C0 * !Y)	0.00015	0.00016	0.00016
	(!A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !C0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * !Y)	-0.00020	-0.00019	-0.00017

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X1P4H7H	(A0 * A1 * C0 * Y)	-0.00000	0.00000	0.00001
	(A0 * A1 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * Y)	0.00033	0.00034	0.00034
	(A0 * A1 * !C0 * !Y)	-0.00012	-0.00011	-0.00009
	(A0 * A1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * !Y)	0.00026	0.00027	0.00027
	(A0 * !A1 * !C0 * !Y)	-0.00016	-0.00016	-0.00016
	(A0 * !A1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * !C0 * !Y)	0.00021	0.00021	0.00021
	(!A0 * !C0 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !C0 * !Y)	0.00021	0.00021	0.00021

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X1P4H7H	(A0 * A1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * C0 * Y)	0.00003	0.00003	0.00004
	(A0 * A1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * C0 * Y)	-0.00034	-0.00033	-0.00033
	(A0 * A1 * !C0 * !Y)	0.00012	0.00012	0.00012
	(A0 * A1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !C0 * !Y)	-0.00027	-0.00027	-0.00026
	(A0 * !A1 * !C0 * !Y)	0.00016	0.00016	0.00016
	(A0 * !A1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * !C0 * !Y)	-0.00021	-0.00019	-0.00016
	(!A0 * !C0 * !Y)	0.00016	0.00016	0.00016
	(!A0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !C0 * !Y)	-0.00021	-0.00020	-0.00017

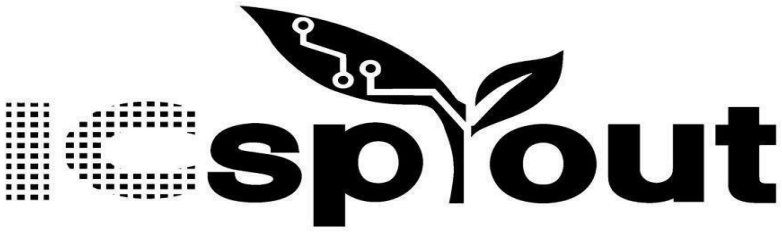
Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X1P4H7H	(A0 * !A1 * !B0 * !Y)	-0.00025	-0.00025	-0.00025
	(A0 * !A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B0 * !Y)	0.00001	0.00002	0.00003
	(A0 * !A1 * !B0 * !Y)	0.00005	0.00006	0.00006
	(!A0 * !B0 * !Y)	-0.00025	-0.00025	-0.00025
	(!A0 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * !Y)	0.00006	0.00006	0.00006

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X1P4H7H	(A0 * !A1 * !B0 * !Y)	0.00025	0.00025	0.00025
	(A0 * !A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * !A1 * !B0 * !Y)	-0.00006	-0.00005	-0.00005
	(!A0 * !B0 * !Y)	0.00025	0.00025	0.00025
	(!A0 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * !Y)	-0.00006	-0.00006	-0.00006

AOA211X2H7H



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

Truth Table

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

Footprint

Cell Name	Area
AOA211X2H7H	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	Y
AOA211X2H7H	0.00081	0.00081	0.00089	0.00091	0.05457

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOA211X2H7H	0.00000	0.02313	0.04136

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOA211X2H7H	A0->Y (RR)	0.11310	0.29678	0.74431
	A1->Y (RR)	0.11441	0.29291	0.72870
	B0->Y (RR)	0.07656	0.25455	0.68857
	C0->Y (RR)	0.10021	0.27847	0.71055

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOA211X2H7H	A0->Y (FF)	0.11370	0.26887	0.63904
	A1->Y (FF)	0.11727	0.27486	0.65010
	B0->Y (FF)	0.10978	0.26119	0.62505
	C0->Y (FF)	0.05684	0.20472	0.55660

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOA211X2H7H	A0	0.00054	0.00060	0.00067
	A0	0.00007	0.00007	0.00007
	A0	-0.00003	-0.00003	-0.00003
	A0	0.00173	0.00179	0.00186
	A1	0.00054	0.00060	0.00067
	A1	0.00007	0.00007	0.00007
	A1	-0.00007	-0.00007	-0.00007
	A1	0.00186	0.00193	0.00199
	B0	0.00054	0.00061	0.00067
	B0	0.00000	0.00001	0.00001
	B0	-0.00003	-0.00003	-0.00003
	B0	0.00166	0.00173	0.00179
	C0	0.00054	0.00060	0.00068
	C0	0.00007	0.00007	0.00007
	C0	0.00000	0.00002	0.00004
	C0	0.00140	0.00147	0.00155

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOA211X2H7H	A0	0.00183	0.00191	0.00197
	A0	-0.00007	-0.00007	-0.00007
	A0	0.00003	0.00003	0.00003
	A0	0.00065	0.00072	0.00079
	A1	0.00195	0.00201	0.00206
	A1	-0.00007	-0.00007	-0.00007
	A1	0.00007	0.00007	0.00007
	A1	0.00066	0.00071	0.00077
	B0	0.00164	0.00171	0.00178
	B0	-0.00001	-0.00001	-0.00000
	B0	0.00007	0.00007	0.00007
	B0	0.00061	0.00068	0.00075
	C0	0.00156	0.00164	0.00170
	C0	-0.00001	-0.00001	-0.00000
	C0	-0.00002	-0.00002	-0.00000
	C0	0.00062	0.00070	0.00077

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X2H7H	(A1 * B0 * C0 * Y)	-0.00010	-0.00009	-0.00007
	(A1 * B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * C0 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * C0 * Y)	0.00028	0.00028	0.00028
	(A1 * B0 * !C0 * !Y)	-0.00010	-0.00009	-0.00007
	(A1 * B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * !Y)	0.00027	0.00028	0.00028
	(A1 * !B0 * !C0 * !Y)	-0.00015	-0.00015	-0.00015
	(A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !C0 * !Y)	0.00022	0.00022	0.00023
	(!A1 * B0 * C0 * Y)	-0.00015	-0.00015	-0.00014
	(!A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * C0 * Y)	0.00024	0.00024	0.00024
	(!A1 * B0 * !C0 * !Y)	-0.00015	-0.00015	-0.00014
	(!A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !C0 * !Y)	0.00024	0.00024	0.00024
	(!A1 * !B0 * C0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A1 * !B0 * C0 * !Y)	-0.00001	-0.00001	0.00000
	(!A1 * !B0 * C0 * !Y)	0.00004	0.00004	0.00004
	(!A1 * !B0 * C0 * !Y)	0.00009	0.00010	0.00010
	(!A1 * !B0 * !C0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * !Y)	0.00005	0.00005	0.00005
	(!A1 * !B0 * !C0 * !Y)	0.00009	0.00010	0.00010

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X2H7H	(A1 * B0 * C0 * Y)	0.00010	0.00010	0.00010
	(A1 * B0 * C0 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * Y)	-0.00028	-0.00027	-0.00026
	(A1 * B0 * !C0 * !Y)	0.00010	0.00010	0.00010
	(A1 * B0 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * !Y)	-0.00027	-0.00027	-0.00027
	(A1 * !B0 * !C0 * !Y)	0.00015	0.00015	0.00015
	(A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !C0 * !Y)	-0.00023	-0.00021	-0.00018
	(!A1 * B0 * C0 * Y)	0.00014	0.00015	0.00015
	(!A1 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * C0 * Y)	-0.00024	-0.00023	-0.00023
	(!A1 * B0 * !C0 * !Y)	0.00014	0.00015	0.00015
	(!A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !C0 * !Y)	-0.00024	-0.00023	-0.00023
	(!A1 * !B0 * C0 * !Y)	0.00015	0.00015	0.00015
	(!A1 * !B0 * C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * C0 * !Y)	-0.00004	-0.00004	-0.00004
	(!A1 * !B0 * C0 * !Y)	-0.00010	-0.00010	-0.00009
	(!A1 * !B0 * !C0 * !Y)	0.00015	0.00015	0.00015
	(!A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C0 * !Y)	-0.00005	-0.00005	-0.00005
	(!A1 * !B0 * !C0 * !Y)	-0.00010	-0.00010	-0.00009

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X2H7H	(A0 * B0 * C0 * Y)	-0.00011	-0.00009	-0.00007
	(A0 * B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * Y)	0.00025	0.00026	0.00026
	(A0 * B0 * !C0 * !Y)	-0.00011	-0.00009	-0.00007
	(A0 * B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !C0 * !Y)	0.00000	0.00000	0.00001
	(A0 * B0 * !C0 * !Y)	0.00025	0.00025	0.00025
	(A0 * !B0 * !C0 * !Y)	-0.00015	-0.00015	-0.00015
	(A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00002
	(A0 * !B0 * !C0 * !Y)	0.00020	0.00021	0.00021
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	0.00001	0.00001	0.00002
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	0.00022	0.00022	0.00022
	(!A0 * !B0 * C0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * !Y)	0.00021	0.00021	0.00021
	(!A0 * !B0 * !C0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !B0 * !C0 * !Y)	0.00021	0.00021	0.00021

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X2H7H	(A0 * B0 * C0 * Y)	0.00011	0.00011	0.00011
	(A0 * B0 * C0 * Y)	0.00002	0.00002	0.00002
	(A0 * B0 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * C0 * Y)	-0.00025	-0.00025	-0.00025
	(A0 * B0 * !C0 * !Y)	0.00011	0.00011	0.00011
	(A0 * B0 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !C0 * !Y)	-0.00025	-0.00025	-0.00025
	(A0 * !B0 * !C0 * !Y)	0.00015	0.00015	0.00015
	(A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !C0 * !Y)	-0.00021	-0.00020	-0.00019
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	0.00015	0.00015	0.00015
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	-0.00022	-0.00021	-0.00020
	(!A0 * !B0 * C0 * !Y)	0.00015	0.00015	0.00015
	(!A0 * !B0 * C0 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * !Y)	-0.00021	-0.00020	-0.00019
	(!A0 * !B0 * !C0 * !Y)	0.00015	0.00015	0.00015
	(!A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B0 * !C0 * !Y)	-0.00021	-0.00020	-0.00019

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X2H7H	(A0 * A1 * C0 * Y)	-0.00000	0.00000	0.00001
	(A0 * A1 * C0 * Y)	-0.00004	-0.00003	-0.00003
	(A0 * A1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * Y)	0.00033	0.00033	0.00033
	(A0 * A1 * !C0 * !Y)	-0.00012	-0.00011	-0.00009
	(A0 * A1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * !Y)	0.00026	0.00027	0.00027
	(A0 * !A1 * !C0 * !Y)	-0.00016	-0.00016	-0.00016
	(A0 * !A1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * !C0 * !Y)	0.00021	0.00021	0.00021
	(!A0 * !C0 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !C0 * !Y)	0.00021	0.00021	0.00022

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X2H7H	(A0 * A1 * C0 * Y)	-0.00001	-0.00000	0.00000
	(A0 * A1 * C0 * Y)	0.00003	0.00003	0.00004
	(A0 * A1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * C0 * Y)	-0.00033	-0.00033	-0.00033
	(A0 * A1 * !C0 * !Y)	0.00012	0.00012	0.00012
	(A0 * A1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !C0 * !Y)	-0.00027	-0.00027	-0.00026
	(A0 * !A1 * !C0 * !Y)	0.00016	0.00016	0.00016
	(A0 * !A1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * !C0 * !Y)	-0.00021	-0.00019	-0.00016
	(!A0 * !C0 * !Y)	0.00016	0.00016	0.00016
	(!A0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !C0 * !Y)	-0.00021	-0.00020	-0.00017

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X2H7H	(A0 * !A1 * !B0 * !Y)	-0.00025	-0.00025	-0.00025
	(A0 * !A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B0 * !Y)	0.00002	0.00003	0.00003
	(A0 * !A1 * !B0 * !Y)	0.00005	0.00006	0.00006
	(!A0 * !B0 * !Y)	-0.00025	-0.00025	-0.00025
	(!A0 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !B0 * !Y)	0.00006	0.00006	0.00007

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X2H7H	(A0 * !A1 * !B0 * !Y)	0.00025	0.00025	0.00025
	(A0 * !A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * !B0 * !Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !B0 * !Y)	0.00025	0.00025	0.00025
	(!A0 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * !Y)	-0.00007	-0.00006	-0.00006

AOA211X3H7H

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

Truth Table

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

Footprint

Cell Name	Area
AOA211X3H7H	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	Y
AOA211X3H7H	0.00089	0.00091	0.00099	0.00105	0.08619

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOA211X3H7H	0.00000	0.03054	0.03931

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOA211X3H7H	A0->Y (RR)	0.11996	0.30928	0.76784
	A1->Y (RR)	0.12176	0.30650	0.75396
	B0->Y (RR)	0.08108	0.26485	0.71117
	C0->Y (RR)	0.10876	0.29226	0.73586

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOA211X3H7H	A0->Y (FF)	0.11745	0.27704	0.65396
	A1->Y (FF)	0.12101	0.28272	0.66446
	B0->Y (FF)	0.11390	0.27026	0.64263
	C0->Y (FF)	0.05958	0.21167	0.57200

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOA211X3H7H	A0	0.00093	0.00102	0.00112
	A0	0.00008	0.00009	0.00009
	A0	-0.00004	-0.00003	-0.00003
	A0	0.00229	0.00238	0.00249
	A1	0.00093	0.00102	0.00112
	A1	0.00008	0.00009	0.00009
	A1	-0.00008	-0.00008	-0.00007
	A1	0.00246	0.00255	0.00266
	B0	0.00093	0.00103	0.00113
	B0	0.00000	0.00000	0.00001
	B0	-0.00003	-0.00003	-0.00003
	B0	0.00221	0.00232	0.00241
	C0	0.00091	0.00102	0.00114
	C0	0.00008	0.00009	0.00009
	C0	0.00003	0.00003	0.00005
	C0	0.00192	0.00202	0.00214

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOA211X3H7H	A0	0.00248	0.00259	0.00269
	A0	-0.00009	-0.00009	-0.00008
	A0	0.00003	0.00003	0.00004
	A0	0.00113	0.00123	0.00133
	A1	0.00262	0.00271	0.00280
	A1	-0.00009	-0.00009	-0.00008
	A1	0.00008	0.00008	0.00008
	A1	0.00114	0.00122	0.00131
	B0	0.00226	0.00236	0.00247
	B0	-0.00000	-0.00000	0.00001
	B0	0.00008	0.00008	0.00008
	B0	0.00109	0.00119	0.00129
	C0	0.00218	0.00231	0.00241
	C0	-0.00000	-0.00000	0.00000
	C0	-0.00003	-0.00003	-0.00002
	C0	0.00110	0.00122	0.00132

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X3H7H	(A1 * B0 * C0 * Y)	-0.00013	-0.00011	-0.00008
	(A1 * B0 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * C0 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * C0 * Y)	0.00029	0.00029	0.00030
	(A1 * B0 * !C0 * !Y)	-0.00013	-0.00011	-0.00009
	(A1 * B0 * !C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !C0 * !Y)	0.00029	0.00029	0.00029
	(A1 * !B0 * !C0 * !Y)	-0.00018	-0.00018	-0.00017
	(A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !C0 * !Y)	0.00001	0.00002	0.00002
	(A1 * !B0 * !C0 * !Y)	0.00023	0.00024	0.00024
	(!A1 * B0 * C0 * Y)	-0.00018	-0.00018	-0.00017
	(!A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * C0 * Y)	0.00001	0.00002	0.00002
	(!A1 * B0 * C0 * Y)	0.00025	0.00025	0.00026
	(!A1 * B0 * !C0 * !Y)	-0.00018	-0.00017	-0.00017
	(!A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !C0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * !C0 * !Y)	0.00025	0.00025	0.00025
	(!A1 * !B0 * C0 * !Y)	-0.00018	-0.00018	-0.00018
	(!A1 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * C0 * !Y)	0.00005	0.00005	0.00005
	(!A1 * !B0 * C0 * !Y)	0.00009	0.00009	0.00010
	(!A1 * !B0 * !C0 * !Y)	-0.00018	-0.00018	-0.00018
	(!A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * !Y)	0.00006	0.00006	0.00006
	(!A1 * !B0 * !C0 * !Y)	0.00009	0.00010	0.00010

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X3H7H	(A1 * B0 * C0 * Y)	0.00012	0.00013	0.00013
	(A1 * B0 * C0 * Y)	0.00003	0.00003	0.00003
	(A1 * B0 * C0 * Y)	-0.00001	-0.00000	-0.00000
	(A1 * B0 * C0 * Y)	-0.00029	-0.00029	-0.00029
	(A1 * B0 * !C0 * !Y)	0.00013	0.00013	0.00013
	(A1 * B0 * !C0 * !Y)	0.00003	0.00003	0.00003
	(A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !C0 * !Y)	-0.00029	-0.00029	-0.00029
	(A1 * !B0 * !C0 * !Y)	0.00018	0.00018	0.00018
	(A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * !B0 * !C0 * !Y)	-0.00024	-0.00022	-0.00019
	(!A1 * B0 * C0 * Y)	0.00018	0.00018	0.00018
	(!A1 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * C0 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * B0 * C0 * Y)	-0.00025	-0.00025	-0.00024
	(!A1 * B0 * !C0 * !Y)	0.00017	0.00018	0.00018
	(!A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * !C0 * !Y)	-0.00025	-0.00025	-0.00023
	(!A1 * !B0 * C0 * !Y)	0.00018	0.00018	0.00018
	(!A1 * !B0 * C0 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * C0 * !Y)	-0.00005	-0.00005	-0.00004
	(!A1 * !B0 * C0 * !Y)	-0.00009	-0.00009	-0.00009
	(!A1 * !B0 * !C0 * !Y)	0.00018	0.00018	0.00018
	(!A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C0 * !Y)	-0.00006	-0.00006	-0.00006
	(!A1 * !B0 * !C0 * !Y)	-0.00010	-0.00009	-0.00009

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X3H7H	(A0 * B0 * C0 * Y)	-0.00013	-0.00011	-0.00008
	(A0 * B0 * C0 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * B0 * C0 * Y)	-0.00000	0.00000	0.00001
	(A0 * B0 * C0 * Y)	0.00027	0.00027	0.00028
	(A0 * B0 * !C0 * !Y)	-0.00013	-0.00012	-0.00009
	(A0 * B0 * !C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * B0 * !C0 * !Y)	0.00027	0.00027	0.00027
	(A0 * !B0 * !C0 * !Y)	-0.00018	-0.00018	-0.00018
	(A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !C0 * !Y)	0.00001	0.00002	0.00002
	(A0 * !B0 * !C0 * !Y)	0.00022	0.00022	0.00023
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	-0.00018	-0.00018	-0.00018
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	0.00023	0.00023	0.00023
	(!A0 * !B0 * C0 * !Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * C0 * !Y)	0.00022	0.00022	0.00023
	(!A0 * !B0 * !C0 * !Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !B0 * !C0 * !Y)	0.00022	0.00022	0.00023

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X3H7H	(A0 * B0 * C0 * Y)	0.00013	0.00013	0.00013
	(A0 * B0 * C0 * Y)	0.00002	0.00003	0.00003
	(A0 * B0 * C0 * Y)	-0.00000	-0.00000	0.00001
	(A0 * B0 * C0 * Y)	-0.00027	-0.00027	-0.00027
	(A0 * B0 * !C0 * !Y)	0.00013	0.00013	0.00013
	(A0 * B0 * !C0 * !Y)	0.00003	0.00003	0.00003
	(A0 * B0 * !C0 * !Y)	-0.00001	-0.00000	-0.00000
	(A0 * B0 * !C0 * !Y)	-0.00027	-0.00027	-0.00027
	(A0 * !B0 * !C0 * !Y)	0.00018	0.00018	0.00019
	(A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * !B0 * !C0 * !Y)	-0.00022	-0.00021	-0.00018
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	0.00018	0.00018	0.00019
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	-0.00023	-0.00022	-0.00022
	(!A0 * !B0 * C0 * !Y)	0.00018	0.00018	0.00018
	(!A0 * !B0 * C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * C0 * !Y)	-0.00023	-0.00022	-0.00020
	(!A0 * !B0 * !C0 * !Y)	0.00018	0.00018	0.00018
	(!A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B0 * !C0 * !Y)	-0.00022	-0.00021	-0.00020

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X3H7H	(A0 * A1 * C0 * Y)	-0.00001	-0.00000	0.00000
	(A0 * A1 * C0 * Y)	-0.00004	-0.00003	-0.00003
	(A0 * A1 * C0 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * C0 * Y)	0.00036	0.00036	0.00037
	(A0 * A1 * !C0 * !Y)	-0.00015	-0.00013	-0.00011
	(A0 * A1 * !C0 * !Y)	-0.00003	-0.00003	-0.00002
	(A0 * A1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !C0 * !Y)	0.00028	0.00028	0.00029
	(A0 * !A1 * !C0 * !Y)	-0.00019	-0.00019	-0.00019
	(A0 * !A1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * !C0 * !Y)	0.00022	0.00022	0.00022
	(!A0 * !C0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !C0 * !Y)	0.00023	0.00023	0.00023

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X3H7H	(A0 * A1 * C0 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * C0 * Y)	0.00003	0.00004	0.00004
	(A0 * A1 * C0 * Y)	-0.00000	-0.00001	-0.00000
	(A0 * A1 * C0 * Y)	-0.00037	-0.00036	-0.00036
	(A0 * A1 * !C0 * !Y)	0.00014	0.00014	0.00015
	(A0 * A1 * !C0 * !Y)	0.00002	0.00003	0.00003
	(A0 * A1 * !C0 * !Y)	-0.00001	-0.00000	0.00000
	(A0 * A1 * !C0 * !Y)	-0.00028	-0.00028	-0.00028
	(A0 * !A1 * !C0 * !Y)	0.00019	0.00019	0.00019
	(A0 * !A1 * !C0 * !Y)	0.00001	0.00001	0.00002
	(A0 * !A1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * !C0 * !Y)	-0.00022	-0.00020	-0.00018
	(!A0 * !C0 * !Y)	0.00019	0.00019	0.00019
	(!A0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !C0 * !Y)	-0.00023	-0.00021	-0.00020

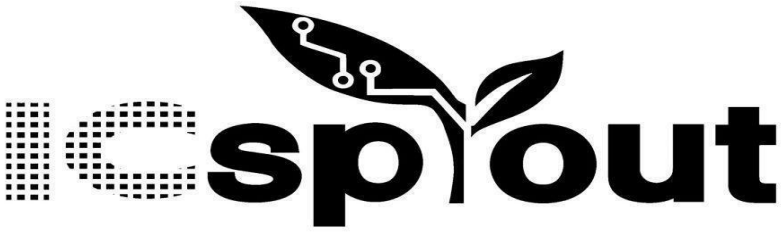
Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X3H7H	(A0 * !A1 * !B0 * !Y)	-0.00031	-0.00031	-0.00030
	(A0 * !A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B0 * !Y)	0.00002	0.00003	0.00003
	(A0 * !A1 * !B0 * !Y)	0.00005	0.00006	0.00007
	(!A0 * !B0 * !Y)	-0.00031	-0.00031	-0.00030
	(!A0 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !B0 * !Y)	0.00006	0.00006	0.00006

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X3H7H	(A0 * !A1 * !B0 * !Y)	0.00031	0.00031	0.00031
	(A0 * !A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B0 * !Y)	-0.00003	-0.00003	-0.00002
	(A0 * !A1 * !B0 * !Y)	-0.00006	-0.00005	-0.00005
	(!A0 * !B0 * !Y)	0.00031	0.00031	0.00031
	(!A0 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !B0 * !Y)	-0.00006	-0.00006	-0.00006

AOA211X4H7H



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

Truth Table

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

Footprint

Cell Name	Area
AOA211X4H7H	3.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	Y
AOA211X4H7H	0.00098	0.00098	0.00107	0.00118	0.10880

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOA211X4H7H	0.00000	0.04476	0.06462

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOA211X4H7H	A0->Y (RR)	0.11567	0.30572	0.76496
	A1->Y (RR)	0.11730	0.30341	0.75332
	B0->Y (RR)	0.07713	0.26152	0.70947
	C0->Y (RR)	0.10492	0.28878	0.73241

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOA211X4H7H	A0->Y (FF)	0.11220	0.27301	0.65200
	A1->Y (FF)	0.11564	0.27836	0.66206
	B0->Y (FF)	0.10774	0.26502	0.63840
	C0->Y (FF)	0.05625	0.20968	0.57220

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOA211X4H7H	A0	0.00108	0.00119	0.00131
	A0	0.00009	0.00010	0.00010
	A0	-0.00004	-0.00004	-0.00004
	A0	0.00260	0.00271	0.00283
	A1	0.00108	0.00120	0.00131
	A1	0.00010	0.00010	0.00010
	A1	-0.00009	-0.00009	-0.00009
	A1	0.00280	0.00291	0.00303
	B0	0.00107	0.00120	0.00132
	B0	-0.00001	-0.00000	0.00001
	B0	-0.00004	-0.00004	-0.00003
	B0	0.00248	0.00261	0.00272
	C0	0.00105	0.00118	0.00132
	C0	0.00010	0.00010	0.00010
	C0	0.00003	0.00005	0.00006
	C0	0.00221	0.00233	0.00247

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOA211X4H7H	A0	0.00286	0.00299	0.00310
	A0	-0.00010	-0.00010	-0.00009
	A0	0.00004	0.00004	0.00004
	A0	0.00135	0.00147	0.00159
	A1	0.00302	0.00312	0.00323
	A1	-0.00010	-0.00010	-0.00009
	A1	0.00009	0.00009	0.00009
	A1	0.00135	0.00145	0.00156
	B0	0.00258	0.00269	0.00282
	B0	0.00000	0.00001	0.00004
	B0	0.00009	0.00009	0.00009
	B0	0.00130	0.00141	0.00154
	C0	0.00252	0.00266	0.00278
	C0	0.00000	0.00001	0.00001
	C0	-0.00005	-0.00005	-0.00003
	C0	0.00129	0.00144	0.00155

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X4H7H	(A1 * B0 * C0 * Y)	-0.00015	-0.00013	-0.00010
	(A1 * B0 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * C0 * Y)	0.00001	0.00001	0.00002
	(A1 * B0 * C0 * Y)	0.00029	0.00030	0.00030
	(A1 * B0 * !C0 * !Y)	-0.00015	-0.00013	-0.00010
	(A1 * B0 * !C0 * !Y)	-0.00004	-0.00003	-0.00003
	(A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * !Y)	0.00030	0.00030	0.00030
	(A1 * !B0 * !C0 * !Y)	-0.00022	-0.00021	-0.00021
	(A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !C0 * !Y)	0.00002	0.00002	0.00003
	(A1 * !B0 * !C0 * !Y)	0.00023	0.00024	0.00024
	(!A1 * B0 * C0 * Y)	-0.00022	-0.00021	-0.00021
	(!A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * C0 * Y)	0.00025	0.00025	0.00026
	(!A1 * B0 * !C0 * !Y)	-0.00021	-0.00021	-0.00021
	(!A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !C0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * !C0 * !Y)	0.00025	0.00025	0.00026
	(!A1 * !B0 * C0 * !Y)	-0.00022	-0.00022	-0.00022
	(!A1 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * C0 * !Y)	0.00006	0.00006	0.00006
	(!A1 * !B0 * C0 * !Y)	0.00008	0.00008	0.00008
	(!A1 * !B0 * !C0 * !Y)	-0.00022	-0.00022	-0.00022
	(!A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * !Y)	0.00006	0.00007	0.00007
	(!A1 * !B0 * !C0 * !Y)	0.00008	0.00008	0.00008

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X4H7H	(A1 * B0 * C0 * Y)	0.00015	0.00015	0.00016
	(A1 * B0 * C0 * Y)	0.00003	0.00003	0.00003
	(A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * C0 * Y)	-0.00030	-0.00029	-0.00029
	(A1 * B0 * !C0 * !Y)	0.00015	0.00015	0.00015
	(A1 * B0 * !C0 * !Y)	0.00003	0.00003	0.00004
	(A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * !Y)	-0.00030	-0.00030	-0.00029
	(A1 * !B0 * !C0 * !Y)	0.00022	0.00022	0.00022
	(A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !C0 * !Y)	-0.00003	-0.00002	-0.00002
	(A1 * !B0 * !C0 * !Y)	-0.00024	-0.00022	-0.00018
	(!A1 * B0 * C0 * Y)	0.00021	0.00022	0.00022
	(!A1 * B0 * C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * C0 * Y)	-0.00026	-0.00025	-0.00023
	(!A1 * B0 * !C0 * !Y)	0.00021	0.00021	0.00022
	(!A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * !C0 * !Y)	-0.00026	-0.00025	-0.00023
	(!A1 * !B0 * C0 * !Y)	0.00022	0.00022	0.00022
	(!A1 * !B0 * C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * C0 * !Y)	-0.00006	-0.00006	-0.00005
	(!A1 * !B0 * C0 * !Y)	-0.00008	-0.00008	-0.00008
	(!A1 * !B0 * !C0 * !Y)	0.00022	0.00022	0.00022
	(!A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * !C0 * !Y)	-0.00007	-0.00007	-0.00006
	(!A1 * !B0 * !C0 * !Y)	-0.00008	-0.00008	-0.00008

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X4H7H	(A0 * B0 * C0 * Y)	-0.00015	-0.00013	-0.00010
	(A0 * B0 * C0 * Y)	-0.00004	-0.00003	-0.00003
	(A0 * B0 * C0 * Y)	0.00000	0.00001	0.00001
	(A0 * B0 * C0 * Y)	0.00028	0.00028	0.00029
	(A0 * B0 * !C0 * !Y)	-0.00015	-0.00013	-0.00010
	(A0 * B0 * !C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * B0 * !C0 * !Y)	0.00028	0.00028	0.00028
	(A0 * !B0 * !C0 * !Y)	-0.00021	-0.00021	-0.00021
	(A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !C0 * !Y)	0.00001	0.00002	0.00003
	(A0 * !B0 * !C0 * !Y)	0.00022	0.00023	0.00023
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	-0.00021	-0.00021	-0.00021
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	0.00023	0.00024	0.00024
	(!A0 * !B0 * C0 * !Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * C0 * !Y)	0.00023	0.00023	0.00024
	(!A0 * !B0 * !C0 * !Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !B0 * !C0 * !Y)	0.00022	0.00023	0.00023

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X4H7H	(A0 * B0 * C0 * Y)	0.00015	0.00015	0.00015
	(A0 * B0 * C0 * Y)	0.00003	0.00003	0.00004
	(A0 * B0 * C0 * Y)	-0.00001	-0.00001	0.00000
	(A0 * B0 * C0 * Y)	-0.00028	-0.00028	-0.00027
	(A0 * B0 * !C0 * !Y)	0.00015	0.00015	0.00015
	(A0 * B0 * !C0 * !Y)	0.00003	0.00003	0.00003
	(A0 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * !C0 * !Y)	-0.00028	-0.00028	-0.00028
	(A0 * !B0 * !C0 * !Y)	0.00021	0.00021	0.00021
	(A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00002
	(A0 * !B0 * !C0 * !Y)	-0.00003	-0.00002	-0.00001
	(A0 * !B0 * !C0 * !Y)	-0.00023	-0.00021	-0.00020
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	0.00021	0.00021	0.00021
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	-0.00024	-0.00023	-0.00022
	(!A0 * !B0 * C0 * !Y)	0.00021	0.00021	0.00021
	(!A0 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * C0 * !Y)	-0.00023	-0.00022	-0.00021
	(!A0 * !B0 * !C0 * !Y)	0.00021	0.00021	0.00021
	(!A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !C0 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * !B0 * !C0 * !Y)	-0.00023	-0.00022	-0.00021

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X4H7H	(A0 * A1 * C0 * Y)	-0.00000	0.00000	0.00001
	(A0 * A1 * C0 * Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * C0 * Y)	0.00038	0.00038	0.00038
	(A0 * A1 * !C0 * !Y)	-0.00017	-0.00015	-0.00012
	(A0 * A1 * !C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !C0 * !Y)	0.00029	0.00029	0.00029
	(A0 * !A1 * !C0 * !Y)	-0.00022	-0.00021	-0.00021
	(A0 * !A1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !C0 * !Y)	0.00003	0.00003	0.00003
	(A0 * !A1 * !C0 * !Y)	0.00022	0.00023	0.00023
	(!A0 * !C0 * !Y)	-0.00022	-0.00021	-0.00021
	(!A0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !C0 * !Y)	0.00023	0.00023	0.00023

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X4H7H	(A0 * A1 * C0 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * C0 * Y)	0.00004	0.00004	0.00004
	(A0 * A1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * C0 * Y)	-0.00038	-0.00038	-0.00037
	(A0 * A1 * !C0 * !Y)	0.00016	0.00016	0.00017
	(A0 * A1 * !C0 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !C0 * !Y)	-0.00001	-0.00000	0.00000
	(A0 * A1 * !C0 * !Y)	-0.00029	-0.00029	-0.00029
	(A0 * !A1 * !C0 * !Y)	0.00021	0.00021	0.00022
	(A0 * !A1 * !C0 * !Y)	0.00001	0.00001	0.00002
	(A0 * !A1 * !C0 * !Y)	-0.00003	-0.00003	-0.00002
	(A0 * !A1 * !C0 * !Y)	-0.00023	-0.00021	-0.00018
	(!A0 * !C0 * !Y)	0.00022	0.00022	0.00022
	(!A0 * !C0 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !C0 * !Y)	-0.00023	-0.00021	-0.00019

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X4H7H	(A0 * !A1 * !B0 * !Y)	-0.00036	-0.00035	-0.00035
	(A0 * !A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B0 * !Y)	0.00003	0.00004	0.00004
	(A0 * !A1 * !B0 * !Y)	0.00006	0.00006	0.00006
	(!A0 * !B0 * !Y)	-0.00036	-0.00035	-0.00035
	(!A0 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !Y)	0.00003	0.00003	0.00004
	(!A0 * !B0 * !Y)	0.00006	0.00006	0.00007

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X4H7H	(A0 * !A1 * !B0 * !Y)	0.00035	0.00036	0.00036
	(A0 * !A1 * !B0 * !Y)	0.00001	0.00001	0.00002
	(A0 * !A1 * !B0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * !B0 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !B0 * !Y)	0.00035	0.00036	0.00036
	(!A0 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !B0 * !Y)	-0.00006	-0.00006	-0.00006

AOAI211X0P5H7H

Cell Description

AOAI

YN=! ((A0 & A1)+B0) & C0

Truth Table

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

Footprint

Cell Name	Area
AOAI211X0P5H7H	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	YN
AOAI211X0P5H7H	0.00081	0.00082	0.00090	0.00093	0.01488

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOAI211X0P5H7H	0.00000	0.00934	0.01677

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOAI211X0P5H7H	A0->YN (FR)	0.07167	0.25031	0.75419
	A1->YN (FR)	0.07408	0.25456	0.75800
	B0->YN (FR)	0.06527	0.23902	0.73811
	C0->YN (FR)	0.02689	0.14388	0.53656

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOAI211X0P5H7H	A0->YN (RF)	0.06894	0.23510	0.70836
	A1->YN (RF)	0.06993	0.22996	0.67309
	B0->YN (RF)	0.04196	0.17389	0.56784
	C0->YN (RF)	0.05561	0.21728	0.69414

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOAI211X0P5H7H	A0	0.00127	0.00130	0.00133
	A0	-0.00011	-0.00011	-0.00011
	A0	0.00007	0.00007	0.00008
	A0	-0.00001	0.00002	0.00005
	A1	0.00138	0.00140	0.00142
	A1	-0.00011	-0.00011	-0.00011
	A1	0.00011	0.00011	0.00011
	A1	-0.00000	0.00002	0.00003
	B0	0.00102	0.00107	0.00110
	B0	-0.00005	-0.00005	-0.00005
	B0	0.00011	0.00011	0.00011
	B0	-0.00008	-0.00005	-0.00002
	C0	0.00098	0.00103	0.00106
	C0	-0.00005	-0.00005	-0.00005
	C0	0.00002	0.00002	0.00003
	C0	-0.00006	-0.00001	0.00003

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOAI211X0P5H7H	A0	-0.00010	-0.00008	-0.00006
	A0	0.00011	0.00011	0.00011
	A0	-0.00008	-0.00007	-0.00007
	A0	0.00118	0.00120	0.00122
	A1	-0.00010	-0.00008	-0.00006
	A1	0.00011	0.00011	0.00011
	A1	-0.00011	-0.00011	-0.00011
	A1	0.00131	0.00133	0.00135
	B0	-0.00010	-0.00007	-0.00005
	B0	0.00005	0.00005	0.00006
	B0	-0.00007	-0.00007	-0.00007
	B0	0.00111	0.00114	0.00116
	C0	-0.00010	-0.00006	-0.00003
	C0	0.00011	0.00011	0.00011
	C0	-0.00002	-0.00002	-0.00002
	C0	0.00086	0.00090	0.00093

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X0P5H7H	(A1 * B0 * C0 * !YN)	-0.00011	-0.00009	-0.00007
	(A1 * B0 * C0 * !YN)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * C0 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !YN)	0.00026	0.00027	0.00027
	(A1 * B0 * !C0 * YN)	-0.00011	-0.00009	-0.00007
	(A1 * B0 * !C0 * YN)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !C0 * YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * YN)	0.00026	0.00026	0.00027
	(A1 * !B0 * !C0 * YN)	-0.00016	-0.00016	-0.00015
	(A1 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(A1 * !B0 * !C0 * YN)	0.00021	0.00021	0.00021
	(!A1 * B0 * C0 * !YN)	-0.00016	-0.00015	-0.00015
	(!A1 * B0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * C0 * !YN)	0.00001	0.00001	0.00002
	(!A1 * B0 * C0 * !YN)	0.00023	0.00023	0.00023
	(!A1 * B0 * !C0 * YN)	-0.00016	-0.00015	-0.00015
	(!A1 * B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(!A1 * B0 * !C0 * YN)	0.00022	0.00023	0.00023
	(!A1 * !B0 * C0 * YN)	-0.00016	-0.00016	-0.00016
	(!A1 * !B0 * C0 * YN)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * YN)	0.00004	0.00004	0.00004
	(!A1 * !B0 * C0 * YN)	0.00008	0.00008	0.00008
	(!A1 * !B0 * !C0 * YN)	-0.00016	-0.00016	-0.00016
	(!A1 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * YN)	0.00005	0.00005	0.00005
	(!A1 * !B0 * !C0 * YN)	0.00008	0.00009	0.00009

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X0P5H7H	(A1 * B0 * C0 * !YN)	0.00011	0.00011	0.00011
	(A1 * B0 * C0 * !YN)	0.00002	0.00002	0.00002
	(A1 * B0 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * !YN)	-0.00027	-0.00026	-0.00026
	(A1 * B0 * !C0 * YN)	0.00011	0.00011	0.00011
	(A1 * B0 * !C0 * YN)	0.00002	0.00002	0.00002
	(A1 * B0 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * YN)	-0.00026	-0.00026	-0.00026
	(A1 * !B0 * !C0 * YN)	0.00016	0.00016	0.00016
	(A1 * !B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(A1 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !C0 * YN)	-0.00021	-0.00019	-0.00017
	(!A1 * B0 * C0 * !YN)	0.00015	0.00015	0.00016
	(!A1 * B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(!A1 * B0 * C0 * !YN)	-0.00002	-0.00001	-0.00001
	(!A1 * B0 * C0 * !YN)	-0.00023	-0.00022	-0.00021
	(!A1 * B0 * !C0 * YN)	0.00015	0.00015	0.00016
	(!A1 * B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(!A1 * B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !C0 * YN)	-0.00023	-0.00022	-0.00021
	(!A1 * !B0 * C0 * YN)	0.00016	0.00016	0.00016
	(!A1 * !B0 * C0 * YN)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * YN)	-0.00004	-0.00004	-0.00004
	(!A1 * !B0 * C0 * YN)	-0.00008	-0.00008	-0.00008
	(!A1 * !B0 * !C0 * YN)	0.00016	0.00016	0.00016
	(!A1 * !B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C0 * YN)	-0.00005	-0.00005	-0.00005
	(!A1 * !B0 * !C0 * YN)	-0.00009	-0.00009	-0.00008

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X0P5H7H	(A0 * B0 * C0 * !YN)	-0.00011	-0.00009	-0.00007
	(A0 * B0 * C0 * !YN)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * C0 * !YN)	0.00000	0.00001	0.00001
	(A0 * B0 * C0 * !YN)	0.00024	0.00024	0.00025
	(A0 * B0 * !C0 * YN)	-0.00011	-0.00009	-0.00007
	(A0 * B0 * !C0 * YN)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !C0 * YN)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * YN)	0.00024	0.00024	0.00024
	(A0 * !B0 * !C0 * YN)	-0.00016	-0.00016	-0.00016
	(A0 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(A0 * !B0 * !C0 * YN)	0.00020	0.00020	0.00020
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	-0.00016	-0.00016	-0.00016
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	0.00020	0.00020	0.00021
	(!A0 * !B0 * C0 * YN)	-0.00016	-0.00016	-0.00015
	(!A0 * !B0 * C0 * YN)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * C0 * YN)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * YN)	0.00020	0.00020	0.00020
	(!A0 * !B0 * !C0 * YN)	-0.00016	-0.00016	-0.00016
	(!A0 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * YN)	0.00001	0.00002	0.00002
	(!A0 * !B0 * !C0 * YN)	0.00020	0.00020	0.00020

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X0P5H7H	(A0 * B0 * C0 * !YN)	0.00011	0.00011	0.00011
	(A0 * B0 * C0 * !YN)	0.00002	0.00002	0.00002
	(A0 * B0 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * !YN)	-0.00024	-0.00024	-0.00024
	(A0 * B0 * !C0 * YN)	0.00011	0.00011	0.00011
	(A0 * B0 * !C0 * YN)	0.00002	0.00002	0.00002
	(A0 * B0 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !C0 * YN)	-0.00024	-0.00024	-0.00024
	(A0 * !B0 * !C0 * YN)	0.00016	0.00016	0.00016
	(A0 * !B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(A0 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !C0 * YN)	-0.00020	-0.00019	-0.00017
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	0.00016	0.00016	0.00016
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	-0.00021	-0.00020	-0.00019
	(!A0 * !B0 * C0 * YN)	0.00015	0.00016	0.00016
	(!A0 * !B0 * C0 * YN)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * YN)	-0.00020	-0.00019	-0.00018
	(!A0 * !B0 * !C0 * YN)	0.00016	0.00016	0.00016
	(!A0 * !B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !C0 * YN)	-0.00002	-0.00002	-0.00001
	(!A0 * !B0 * !C0 * YN)	-0.00020	-0.00019	-0.00018

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X0P5H7H	(A0 * A1 * C0 * !YN)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * !YN)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * C0 * !YN)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * !YN)	0.00033	0.00034	0.00034
	(A0 * A1 * !C0 * YN)	-0.00012	-0.00011	-0.00009
	(A0 * A1 * !C0 * YN)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !C0 * YN)	0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * YN)	0.00027	0.00027	0.00027
	(A0 * !A1 * !C0 * YN)	-0.00016	-0.00016	-0.00016
	(A0 * !A1 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !C0 * YN)	0.00002	0.00002	0.00002
	(A0 * !A1 * !C0 * YN)	0.00020	0.00021	0.00021
	(!A0 * !C0 * YN)	-0.00016	-0.00016	-0.00016
	(!A0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !C0 * YN)	0.00001	0.00002	0.00002
	(!A0 * !C0 * YN)	0.00021	0.00021	0.00021

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X0P5H7H	(A0 * A1 * C0 * !YN)	-0.00000	0.00000	0.00000
	(A0 * A1 * C0 * !YN)	0.00003	0.00003	0.00003
	(A0 * A1 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * C0 * !YN)	-0.00034	-0.00033	-0.00033
	(A0 * A1 * !C0 * YN)	0.00012	0.00012	0.00012
	(A0 * A1 * !C0 * YN)	0.00002	0.00002	0.00002
	(A0 * A1 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !C0 * YN)	-0.00027	-0.00026	-0.00026
	(A0 * !A1 * !C0 * YN)	0.00016	0.00016	0.00016
	(A0 * !A1 * !C0 * YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !C0 * YN)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * !C0 * YN)	-0.00021	-0.00019	-0.00017
	(!A0 * !C0 * YN)	0.00016	0.00016	0.00017
	(!A0 * !C0 * YN)	0.00001	0.00001	0.00001
	(!A0 * !C0 * YN)	-0.00002	-0.00002	-0.00001
	(!A0 * !C0 * YN)	-0.00021	-0.00020	-0.00018

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X0P5H7H	(A0 * !A1 * !B0 * YN)	-0.00026	-0.00025	-0.00025
	(A0 * !A1 * !B0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B0 * YN)	0.00002	0.00002	0.00002
	(A0 * !A1 * !B0 * YN)	0.00006	0.00006	0.00007
	(!A0 * !B0 * YN)	-0.00026	-0.00025	-0.00025
	(!A0 * !B0 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * YN)	0.00002	0.00002	0.00002
	(!A0 * !B0 * YN)	0.00007	0.00007	0.00007

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X0P5H7H	(A0 * !A1 * !B0 * YN)	0.00025	0.00026	0.00026
	(A0 * !A1 * !B0 * YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B0 * YN)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * !B0 * YN)	-0.00007	-0.00006	-0.00006
	(!A0 * !B0 * YN)	0.00025	0.00026	0.00026
	(!A0 * !B0 * YN)	0.00001	0.00001	0.00001
	(!A0 * !B0 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * YN)	-0.00007	-0.00007	-0.00007

AOAI211X0P7H7H

Cell Description

AOAI

YN=! ((A0 & A1)+B0) & C0

Truth Table

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

Footprint

Cell Name	Area
AOAI211X0P7H7H	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	YN
AOAI211X0P7H7H	0.00086	0.00087	0.00095	0.00098	0.01702

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOAI211X0P7H7H	0.00000	0.01049	0.01596

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOAI211X0P7H7H	A0->YN (FR)	0.06609	0.24577	0.75440
	A1->YN (FR)	0.06838	0.24980	0.75772
	B0->YN (FR)	0.06011	0.23492	0.73964
	C0->YN (FR)	0.02491	0.14215	0.53836

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOAI211X0P7H7H	A0->YN (RF)	0.06549	0.23538	0.72050
	A1->YN (RF)	0.06658	0.23112	0.68823
	B0->YN (RF)	0.03971	0.17414	0.57765
	C0->YN (RF)	0.05231	0.21674	0.70225

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOAI211X0P7H7H	A0	0.00135	0.00139	0.00141
	A0	-0.00013	-0.00013	-0.00013
	A0	0.00008	0.00009	0.00009
	A0	-0.00002	0.00001	0.00003
	A1	0.00146	0.00149	0.00151
	A1	-0.00013	-0.00013	-0.00013
	A1	0.00012	0.00013	0.00013
	A1	-0.00002	-0.00000	0.00001
	B0	0.00110	0.00114	0.00117
	B0	-0.00006	-0.00006	-0.00005
	B0	0.00012	0.00013	0.00013
	B0	-0.00008	-0.00005	-0.00003
	C0	0.00104	0.00109	0.00113
	C0	-0.00006	-0.00006	-0.00006
	C0	0.00002	0.00003	0.00003
	C0	-0.00008	-0.00003	0.00001

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOAI211X0P7H7H	A0	-0.00011	-0.00009	-0.00007
	A0	0.00013	0.00013	0.00013
	A0	-0.00009	-0.00009	-0.00008
	A0	0.00126	0.00129	0.00131
	A1	-0.00011	-0.00009	-0.00007
	A1	0.00013	0.00013	0.00013
	A1	-0.00013	-0.00013	-0.00012
	A1	0.00141	0.00144	0.00146
	B0	-0.00011	-0.00007	-0.00005
	B0	0.00006	0.00006	0.00006
	B0	-0.00009	-0.00009	-0.00008
	B0	0.00119	0.00122	0.00124
	C0	-0.00011	-0.00007	-0.00004
	C0	0.00013	0.00013	0.00013
	C0	-0.00002	-0.00002	-0.00001
	C0	0.00092	0.00096	0.00100

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X0P7H7H	(A1 * B0 * C0 * !YN)	-0.00012	-0.00010	-0.00008
	(A1 * B0 * C0 * !YN)	-0.00003	-0.00003	-0.00002
	(A1 * B0 * C0 * !YN)	0.00000	0.00000	0.00001
	(A1 * B0 * C0 * !YN)	0.00027	0.00028	0.00028
	(A1 * B0 * !C0 * YN)	-0.00012	-0.00011	-0.00008
	(A1 * B0 * !C0 * YN)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * !C0 * YN)	0.00000	0.00000	0.00001
	(A1 * B0 * !C0 * YN)	0.00027	0.00027	0.00027
	(A1 * !B0 * !C0 * YN)	-0.00018	-0.00017	-0.00017
	(A1 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !C0 * YN)	0.00001	0.00002	0.00002
	(A1 * !B0 * !C0 * YN)	0.00021	0.00022	0.00022
	(!A1 * B0 * C0 * !YN)	-0.00017	-0.00017	-0.00017
	(!A1 * B0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * C0 * !YN)	0.00001	0.00002	0.00002
	(!A1 * B0 * C0 * !YN)	0.00023	0.00023	0.00023
	(!A1 * B0 * !C0 * YN)	-0.00017	-0.00017	-0.00017
	(!A1 * B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !C0 * YN)	0.00001	0.00002	0.00002
	(!A1 * B0 * !C0 * YN)	0.00023	0.00023	0.00023
	(!A1 * !B0 * C0 * YN)	-0.00018	-0.00018	-0.00017
	(!A1 * !B0 * C0 * YN)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * YN)	0.00004	0.00005	0.00005
	(!A1 * !B0 * C0 * YN)	0.00008	0.00008	0.00008
	(!A1 * !B0 * !C0 * YN)	-0.00018	-0.00018	-0.00018
	(!A1 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * YN)	0.00005	0.00005	0.00005
	(!A1 * !B0 * !C0 * YN)	0.00008	0.00008	0.00008

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X0P7H7H	(A1 * B0 * C0 * !YN)	0.00012	0.00012	0.00012
	(A1 * B0 * C0 * !YN)	0.00002	0.00003	0.00003
	(A1 * B0 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * !YN)	-0.00027	-0.00027	-0.00027
	(A1 * B0 * !C0 * YN)	0.00012	0.00012	0.00012
	(A1 * B0 * !C0 * YN)	0.00003	0.00003	0.00003
	(A1 * B0 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * YN)	-0.00027	-0.00027	-0.00027
	(A1 * !B0 * !C0 * YN)	0.00018	0.00018	0.00018
	(A1 * !B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(A1 * !B0 * !C0 * YN)	-0.00002	-0.00002	-0.00001
	(A1 * !B0 * !C0 * YN)	-0.00022	-0.00020	-0.00017
	(!A1 * B0 * C0 * !YN)	0.00017	0.00017	0.00017
	(!A1 * B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(!A1 * B0 * C0 * !YN)	-0.00002	-0.00002	-0.00001
	(!A1 * B0 * C0 * !YN)	-0.00023	-0.00023	-0.00022
	(!A1 * B0 * !C0 * YN)	0.00017	0.00017	0.00017
	(!A1 * B0 * !C0 * YN)	0.00001	0.00001	0.00002
	(!A1 * B0 * !C0 * YN)	-0.00002	-0.00002	-0.00001
	(!A1 * B0 * !C0 * YN)	-0.00023	-0.00023	-0.00022
	(!A1 * !B0 * C0 * YN)	0.00018	0.00018	0.00018
	(!A1 * !B0 * C0 * YN)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * YN)	-0.00004	-0.00004	-0.00004
	(!A1 * !B0 * C0 * YN)	-0.00008	-0.00008	-0.00008
	(!A1 * !B0 * !C0 * YN)	0.00018	0.00018	0.00018
	(!A1 * !B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C0 * YN)	-0.00005	-0.00005	-0.00005
	(!A1 * !B0 * !C0 * YN)	-0.00008	-0.00008	-0.00008

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X0P7H7H	(A0 * B0 * C0 * !YN)	-0.00012	-0.00010	-0.00008
	(A0 * B0 * C0 * !YN)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * C0 * !YN)	0.00000	0.00000	0.00001
	(A0 * B0 * C0 * !YN)	0.00025	0.00025	0.00026
	(A0 * B0 * !C0 * YN)	-0.00012	-0.00011	-0.00008
	(A0 * B0 * !C0 * YN)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * !C0 * YN)	0.00000	0.00001	0.00001
	(A0 * B0 * !C0 * YN)	0.00025	0.00025	0.00025
	(A0 * !B0 * !C0 * YN)	-0.00017	-0.00017	-0.00017
	(A0 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(A0 * !B0 * !C0 * YN)	0.00020	0.00020	0.00020
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	-0.00017	-0.00017	-0.00017
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	0.00001	0.00002	0.00002
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	0.00021	0.00021	0.00021
	(!A0 * !B0 * C0 * YN)	-0.00017	-0.00017	-0.00017
	(!A0 * !B0 * C0 * YN)	-0.00001	-0.00001	0.00000
	(!A0 * !B0 * C0 * YN)	0.00002	0.00002	0.00002
	(!A0 * !B0 * C0 * YN)	0.00021	0.00021	0.00021
	(!A0 * !B0 * !C0 * YN)	-0.00017	-0.00017	-0.00017
	(!A0 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * YN)	0.00002	0.00002	0.00002
	(!A0 * !B0 * !C0 * YN)	0.00020	0.00020	0.00020

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X0P7H7H	(A0 * B0 * C0 * !YN)	0.00012	0.00012	0.00012
	(A0 * B0 * C0 * !YN)	0.00003	0.00003	0.00003
	(A0 * B0 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * !YN)	-0.00025	-0.00025	-0.00024
	(A0 * B0 * !C0 * YN)	0.00012	0.00012	0.00012
	(A0 * B0 * !C0 * YN)	0.00003	0.00003	0.00003
	(A0 * B0 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !C0 * YN)	-0.00025	-0.00025	-0.00025
	(A0 * !B0 * !C0 * YN)	0.00017	0.00017	0.00017
	(A0 * !B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(A0 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !C0 * YN)	-0.00020	-0.00019	-0.00018
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	0.00017	0.00017	0.00017
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	-0.00002	-0.00002	-0.00001
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	-0.00021	-0.00020	-0.00019
	(!A0 * !B0 * C0 * YN)	0.00017	0.00017	0.00017
	(!A0 * !B0 * C0 * YN)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * C0 * YN)	-0.00021	-0.00020	-0.00018
	(!A0 * !B0 * !C0 * YN)	0.00017	0.00017	0.00017
	(!A0 * !B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !C0 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * !C0 * YN)	-0.00020	-0.00020	-0.00019

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X0P7H7H	(A0 * A1 * C0 * !YN)	-0.00000	0.00000	0.00000
	(A0 * A1 * C0 * !YN)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * C0 * !YN)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * !YN)	0.00034	0.00035	0.00035
	(A0 * A1 * !C0 * YN)	-0.00013	-0.00012	-0.00009
	(A0 * A1 * !C0 * YN)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !C0 * YN)	0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * YN)	0.00027	0.00027	0.00028
	(A0 * !A1 * !C0 * YN)	-0.00017	-0.00017	-0.00017
	(A0 * !A1 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !C0 * YN)	0.00002	0.00002	0.00002
	(A0 * !A1 * !C0 * YN)	0.00021	0.00021	0.00021
	(!A0 * !C0 * YN)	-0.00017	-0.00017	-0.00017
	(!A0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !C0 * YN)	0.00002	0.00002	0.00002
	(!A0 * !C0 * YN)	0.00022	0.00022	0.00022

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X0P7H7H	(A0 * A1 * C0 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * A1 * C0 * !YN)	0.00003	0.00003	0.00003
	(A0 * A1 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * C0 * !YN)	-0.00035	-0.00034	-0.00034
	(A0 * A1 * !C0 * YN)	0.00013	0.00013	0.00013
	(A0 * A1 * !C0 * YN)	0.00002	0.00002	0.00002
	(A0 * A1 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !C0 * YN)	-0.00027	-0.00027	-0.00027
	(A0 * !A1 * !C0 * YN)	0.00017	0.00017	0.00017
	(A0 * !A1 * !C0 * YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !C0 * YN)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * !C0 * YN)	-0.00021	-0.00020	-0.00017
	(!A0 * !C0 * YN)	0.00017	0.00017	0.00018
	(!A0 * !C0 * YN)	0.00001	0.00001	0.00001
	(!A0 * !C0 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !C0 * YN)	-0.00022	-0.00020	-0.00018

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X0P7H7H	(A0 * !A1 * !B0 * YN)	-0.00027	-0.00027	-0.00027
	(A0 * !A1 * !B0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B0 * YN)	0.00003	0.00003	0.00003
	(A0 * !A1 * !B0 * YN)	0.00006	0.00006	0.00006
	(!A0 * !B0 * YN)	-0.00028	-0.00027	-0.00027
	(!A0 * !B0 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * YN)	0.00002	0.00003	0.00002
	(!A0 * !B0 * YN)	0.00007	0.00007	0.00007

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X0P7H7H	(A0 * !A1 * !B0 * YN)	0.00027	0.00027	0.00028
	(A0 * !A1 * !B0 * YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B0 * YN)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * !B0 * YN)	-0.00006	-0.00006	-0.00006
	(!A0 * !B0 * YN)	0.00027	0.00027	0.00028
	(!A0 * !B0 * YN)	0.00001	0.00001	0.00001
	(!A0 * !B0 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * YN)	-0.00007	-0.00007	-0.00007

AOAI211X1H7H

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

Cell Description

AOAI

YN=! ((A0 & A1)+B0) & C0

Truth Table

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

Footprint

Cell Name	Area
AOAI211X1H7H	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	YN
AOAI211X1H7H	0.00092	0.00092	0.00100	0.00103	0.02046

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOAI211X1H7H	0.00000	0.01316	0.01537

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOAI211X1H7H	A0->YN (FR)	0.05879	0.23956	0.75335
	A1->YN (FR)	0.06097	0.24344	0.75686
	B0->YN (FR)	0.05334	0.22954	0.74084
	C0->YN (FR)	0.02211	0.13947	0.54015

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOAI211X1H7H	A0->YN (RF)	0.06097	0.23719	0.74075
	A1->YN (RF)	0.06235	0.23386	0.71166
	B0->YN (RF)	0.03708	0.17581	0.59389
	C0->YN (RF)	0.04837	0.21839	0.71747

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOAI211X1H7H	A0	0.00146	0.00149	0.00152
	A0	-0.00016	-0.00016	-0.00016
	A0	0.00010	0.00010	0.00010
	A0	-0.00005	-0.00001	0.00001
	A1	0.00157	0.00161	0.00163
	A1	-0.00016	-0.00016	-0.00016
	A1	0.00015	0.00015	0.00015
	A1	-0.00005	-0.00003	-0.00002
	B0	0.00119	0.00124	0.00127
	B0	-0.00007	-0.00007	-0.00006
	B0	0.00015	0.00015	0.00015
	B0	-0.00010	-0.00006	-0.00004
	C0	0.00112	0.00117	0.00121
	C0	-0.00007	-0.00007	-0.00007
	C0	0.00002	0.00003	0.00003
	C0	-0.00010	-0.00005	-0.00001

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOAI211X1H7H	A0	-0.00013	-0.00010	-0.00008
	A0	0.00016	0.00016	0.00016
	A0	-0.00010	-0.00010	-0.00010
	A0	0.00138	0.00140	0.00143
	A1	-0.00013	-0.00010	-0.00008
	A1	0.00016	0.00016	0.00016
	A1	-0.00015	-0.00015	-0.00015
	A1	0.00156	0.00158	0.00160
	B0	-0.00013	-0.00009	-0.00007
	B0	0.00007	0.00007	0.00008
	B0	-0.00010	-0.00010	-0.00010
	B0	0.00128	0.00132	0.00134
	C0	-0.00014	-0.00009	-0.00006
	C0	0.00016	0.00016	0.00016
	C0	-0.00003	-0.00003	-0.00002
	C0	0.00099	0.00104	0.00109

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X1H7H	(A1 * B0 * C0 * !YN)	-0.00014	-0.00012	-0.00009
	(A1 * B0 * C0 * !YN)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * C0 * !YN)	0.00000	0.00001	0.00001
	(A1 * B0 * C0 * !YN)	0.00028	0.00028	0.00029
	(A1 * B0 * !C0 * YN)	-0.00014	-0.00012	-0.00009
	(A1 * B0 * !C0 * YN)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * YN)	0.00028	0.00028	0.00028
	(A1 * !B0 * !C0 * YN)	-0.00019	-0.00019	-0.00019
	(A1 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !C0 * YN)	0.00002	0.00002	0.00002
	(A1 * !B0 * !C0 * YN)	0.00023	0.00023	0.00023
	(!A1 * B0 * C0 * !YN)	-0.00019	-0.00019	-0.00019
	(!A1 * B0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * C0 * !YN)	0.00001	0.00002	0.00002
	(!A1 * B0 * C0 * !YN)	0.00024	0.00024	0.00025
	(!A1 * B0 * !C0 * YN)	-0.00019	-0.00019	-0.00019
	(!A1 * B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !C0 * YN)	0.00002	0.00002	0.00002
	(!A1 * B0 * !C0 * YN)	0.00024	0.00024	0.00024
	(!A1 * !B0 * C0 * YN)	-0.00020	-0.00020	-0.00019
	(!A1 * !B0 * C0 * YN)	-0.00001	-0.00001	0.00002
	(!A1 * !B0 * C0 * YN)	0.00005	0.00005	0.00005
	(!A1 * !B0 * C0 * YN)	0.00008	0.00008	0.00008
	(!A1 * !B0 * !C0 * YN)	-0.00020	-0.00020	-0.00020
	(!A1 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * YN)	0.00006	0.00006	0.00006
	(!A1 * !B0 * !C0 * YN)	0.00008	0.00008	0.00008

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X1H7H	(A1 * B0 * C0 * !YN)	0.00014	0.00014	0.00014
	(A1 * B0 * C0 * !YN)	0.00003	0.00003	0.00003
	(A1 * B0 * C0 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * C0 * !YN)	-0.00028	-0.00028	-0.00028
	(A1 * B0 * !C0 * YN)	0.00013	0.00014	0.00014
	(A1 * B0 * !C0 * YN)	0.00003	0.00003	0.00003
	(A1 * B0 * !C0 * YN)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !C0 * YN)	-0.00028	-0.00028	-0.00028
	(A1 * !B0 * !C0 * YN)	0.00019	0.00020	0.00020
	(A1 * !B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(A1 * !B0 * !C0 * YN)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !C0 * YN)	-0.00023	-0.00021	-0.00018
	(!A1 * B0 * C0 * !YN)	0.00019	0.00019	0.00019
	(!A1 * B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(!A1 * B0 * C0 * !YN)	-0.00002	-0.00002	-0.00001
	(!A1 * B0 * C0 * !YN)	-0.00024	-0.00024	-0.00022
	(!A1 * B0 * !C0 * YN)	0.00019	0.00019	0.00019
	(!A1 * B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(!A1 * B0 * !C0 * YN)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * !C0 * YN)	-0.00024	-0.00023	-0.00022
	(!A1 * !B0 * C0 * YN)	0.00020	0.00020	0.00020
	(!A1 * !B0 * C0 * YN)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * YN)	-0.00005	-0.00005	-0.00005
	(!A1 * !B0 * C0 * YN)	-0.00008	-0.00008	-0.00008
	(!A1 * !B0 * !C0 * YN)	0.00020	0.00020	0.00020
	(!A1 * !B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C0 * YN)	-0.00006	-0.00006	-0.00006
	(!A1 * !B0 * !C0 * YN)	-0.00008	-0.00008	-0.00008

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X1H7H	(A0 * B0 * C0 * !YN)	-0.00014	-0.00012	-0.00009
	(A0 * B0 * C0 * !YN)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * C0 * !YN)	0.00000	0.00001	0.00001
	(A0 * B0 * C0 * !YN)	0.00027	0.00027	0.00028
	(A0 * B0 * !C0 * YN)	-0.00014	-0.00012	-0.00009
	(A0 * B0 * !C0 * YN)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * !C0 * YN)	0.00000	0.00001	0.00001
	(A0 * B0 * !C0 * YN)	0.00027	0.00027	0.00027
	(A0 * !B0 * !C0 * YN)	-0.00019	-0.00019	-0.00019
	(A0 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !C0 * YN)	0.00002	0.00002	0.00002
	(A0 * !B0 * !C0 * YN)	0.00022	0.00022	0.00023
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	-0.00019	-0.00019	-0.00019
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	0.00002	0.00002	0.00002
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	0.00023	0.00023	0.00023
	(!A0 * !B0 * C0 * YN)	-0.00019	-0.00019	-0.00019
	(!A0 * !B0 * C0 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * YN)	0.00002	0.00002	0.00002
	(!A0 * !B0 * C0 * YN)	0.00023	0.00023	0.00023
	(!A0 * !B0 * !C0 * YN)	-0.00019	-0.00019	-0.00019
	(!A0 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * YN)	0.00002	0.00002	0.00002
	(!A0 * !B0 * !C0 * YN)	0.00022	0.00022	0.00023

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X1H7H	(A0 * B0 * C0 * !YN)	0.00013	0.00014	0.00014
	(A0 * B0 * C0 * !YN)	0.00003	0.00003	0.00003
	(A0 * B0 * C0 * !YN)	-0.00001	-0.00000	-0.00000
	(A0 * B0 * C0 * !YN)	-0.00027	-0.00027	-0.00027
	(A0 * B0 * !C0 * YN)	0.00014	0.00014	0.00014
	(A0 * B0 * !C0 * YN)	0.00003	0.00003	0.00003
	(A0 * B0 * !C0 * YN)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * !C0 * YN)	-0.00027	-0.00027	-0.00027
	(A0 * !B0 * !C0 * YN)	0.00019	0.00019	0.00019
	(A0 * !B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(A0 * !B0 * !C0 * YN)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * !C0 * YN)	-0.00022	-0.00021	-0.00019
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	0.00019	0.00019	0.00019
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	-0.00023	-0.00023	-0.00022
	(!A0 * !B0 * C0 * YN)	0.00019	0.00019	0.00019
	(!A0 * !B0 * C0 * YN)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * C0 * YN)	-0.00023	-0.00022	-0.00020
	(!A0 * !B0 * !C0 * YN)	0.00019	0.00019	0.00019
	(!A0 * !B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !C0 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * !C0 * YN)	-0.00023	-0.00022	-0.00020

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X1H7H	(A0 * A1 * C0 * !YN)	-0.00000	0.00000	0.00000
	(A0 * A1 * C0 * !YN)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * C0 * !YN)	0.00000	0.00001	0.00001
	(A0 * A1 * C0 * !YN)	0.00036	0.00036	0.00036
	(A0 * A1 * !C0 * YN)	-0.00015	-0.00013	-0.00011
	(A0 * A1 * !C0 * YN)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !C0 * YN)	0.00000	0.00001	0.00001
	(A0 * A1 * !C0 * YN)	0.00028	0.00028	0.00028
	(A0 * !A1 * !C0 * YN)	-0.00020	-0.00020	-0.00020
	(A0 * !A1 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !C0 * YN)	0.00002	0.00002	0.00002
	(A0 * !A1 * !C0 * YN)	0.00022	0.00022	0.00022
	(!A0 * !C0 * YN)	-0.00020	-0.00020	-0.00020
	(!A0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !C0 * YN)	0.00002	0.00002	0.00002
	(!A0 * !C0 * YN)	0.00022	0.00023	0.00023

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X1H7H	(A0 * A1 * C0 * !YN)	-0.00000	0.00000	0.00000
	(A0 * A1 * C0 * !YN)	0.00004	0.00004	0.00004
	(A0 * A1 * C0 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * C0 * !YN)	-0.00036	-0.00036	-0.00036
	(A0 * A1 * !C0 * YN)	0.00015	0.00015	0.00015
	(A0 * A1 * !C0 * YN)	0.00003	0.00003	0.00003
	(A0 * A1 * !C0 * YN)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !C0 * YN)	-0.00028	-0.00028	-0.00027
	(A0 * !A1 * !C0 * YN)	0.00020	0.00020	0.00020
	(A0 * !A1 * !C0 * YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !C0 * YN)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * !C0 * YN)	-0.00022	-0.00020	-0.00018
	(!A0 * !C0 * YN)	0.00020	0.00020	0.00020
	(!A0 * !C0 * YN)	0.00001	0.00001	0.00001
	(!A0 * !C0 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !C0 * YN)	-0.00023	-0.00021	-0.00018

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X1H7H	(A0 * !A1 * !B0 * YN)	-0.00030	-0.00030	-0.00029
	(A0 * !A1 * !B0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B0 * YN)	0.00003	0.00003	0.00003
	(A0 * !A1 * !B0 * YN)	0.00006	0.00006	0.00006
	(!A0 * !B0 * YN)	-0.00030	-0.00030	-0.00029
	(!A0 * !B0 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * YN)	0.00003	0.00003	0.00003
	(!A0 * !B0 * YN)	0.00006	0.00007	0.00007

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X1H7H	(A0 * !A1 * !B0 * YN)	0.00030	0.00030	0.00030
	(A0 * !A1 * !B0 * YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B0 * YN)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * !B0 * YN)	-0.00006	-0.00006	-0.00006
	(!A0 * !B0 * YN)	0.00030	0.00030	0.00030
	(!A0 * !B0 * YN)	0.00001	0.00001	0.00001
	(!A0 * !B0 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !B0 * YN)	-0.00007	-0.00007	-0.00006

AOAI211X1P4H7H

Cell Description

AOAI

YN=! ((A0 & A1)+B0) & C0

Truth Table

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

Footprint

Cell Name	Area
AOAI211X1P4H7H	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	YN
AOAI211X1P4H7H	0.00099	0.00097	0.00104	0.00111	0.02334

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOAI211X1P4H7H	0.00000	0.01671	0.02157

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOAI211X1P4H7H	A0->YN (FR)	0.05527	0.23710	0.75566
	A1->YN (FR)	0.05755	0.24100	0.75813
	B0->YN (FR)	0.04964	0.22690	0.74149
	C0->YN (FR)	0.02072	0.13834	0.54166

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOAI211X1P4H7H	A0->YN (RF)	0.05802	0.23611	0.74618
	A1->YN (RF)	0.05959	0.23343	0.71834
	B0->YN (RF)	0.03507	0.17506	0.59856
	C0->YN (RF)	0.04559	0.21706	0.72095

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOAI211X1P4H7H	A0	0.00158	0.00162	0.00165
	A0	-0.00019	-0.00019	-0.00019
	A0	0.00012	0.00012	0.00012
	A0	-0.00007	-0.00003	-0.00000
	A1	0.00171	0.00176	0.00178
	A1	-0.00019	-0.00019	-0.00019
	A1	0.00017	0.00017	0.00017
	A1	-0.00006	-0.00004	-0.00002
	B0	0.00126	0.00134	0.00137
	B0	-0.00008	-0.00008	-0.00008
	B0	0.00017	0.00017	0.00017
	B0	-0.00011	-0.00008	-0.00005
	C0	0.00122	0.00126	0.00131
	C0	-0.00009	-0.00008	-0.00008
	C0	0.00003	0.00003	0.00004
	C0	-0.00015	-0.00009	-0.00004

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOAI211X1P4H7H	A0	-0.00015	-0.00012	-0.00009
	A0	0.00019	0.00019	0.00019
	A0	-0.00012	-0.00012	-0.00012
	A0	0.00150	0.00153	0.00156
	A1	-0.00015	-0.00011	-0.00009
	A1	0.00019	0.00019	0.00019
	A1	-0.00017	-0.00017	-0.00017
	A1	0.00169	0.00172	0.00175
	B0	-0.00015	-0.00011	-0.00009
	B0	0.00008	0.00009	0.00010
	B0	-0.00012	-0.00012	-0.00011
	B0	0.00139	0.00143	0.00145
	C0	-0.00016	-0.00011	-0.00008
	C0	0.00019	0.00019	0.00019
	C0	-0.00003	-0.00003	-0.00001
	C0	0.00109	0.00115	0.00120

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X1P4H7H	(A1 * B0 * C0 * !YN)	-0.00016	-0.00014	-0.00010
	(A1 * B0 * C0 * !YN)	-0.00004	-0.00003	-0.00003
	(A1 * B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(A1 * B0 * C0 * !YN)	0.00029	0.00030	0.00030
	(A1 * B0 * !C0 * YN)	-0.00016	-0.00014	-0.00011
	(A1 * B0 * !C0 * YN)	-0.00004	-0.00003	-0.00003
	(A1 * B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * YN)	0.00029	0.00030	0.00030
	(A1 * !B0 * !C0 * YN)	-0.00022	-0.00022	-0.00022
	(A1 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !C0 * YN)	0.00002	0.00002	0.00002
	(A1 * !B0 * !C0 * YN)	0.00024	0.00024	0.00024
	(!A1 * B0 * C0 * !YN)	-0.00022	-0.00022	-0.00021
	(!A1 * B0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * C0 * !YN)	0.00002	0.00002	0.00003
	(!A1 * B0 * C0 * !YN)	0.00025	0.00025	0.00026
	(!A1 * B0 * !C0 * YN)	-0.00022	-0.00021	-0.00021
	(!A1 * B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !C0 * YN)	0.00002	0.00002	0.00002
	(!A1 * B0 * !C0 * YN)	0.00025	0.00025	0.00025
	(!A1 * !B0 * C0 * YN)	-0.00022	-0.00022	-0.00022
	(!A1 * !B0 * C0 * YN)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * YN)	0.00006	0.00006	0.00006
	(!A1 * !B0 * C0 * YN)	0.00008	0.00008	0.00008
	(!A1 * !B0 * !C0 * YN)	-0.00022	-0.00022	-0.00022
	(!A1 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * YN)	0.00007	0.00007	0.00007
	(!A1 * !B0 * !C0 * YN)	0.00008	0.00008	0.00008

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X1P4H7H	(A1 * B0 * C0 * !YN)	0.00015	0.00016	0.00016
	(A1 * B0 * C0 * !YN)	0.00003	0.00003	0.00004
	(A1 * B0 * C0 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * C0 * !YN)	-0.00030	-0.00030	-0.00029
	(A1 * B0 * !C0 * YN)	0.00015	0.00016	0.00016
	(A1 * B0 * !C0 * YN)	0.00003	0.00003	0.00004
	(A1 * B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * YN)	-0.00030	-0.00029	-0.00029
	(A1 * !B0 * !C0 * YN)	0.00022	0.00022	0.00022
	(A1 * !B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(A1 * !B0 * !C0 * YN)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !C0 * YN)	-0.00024	-0.00022	-0.00019
	(!A1 * B0 * C0 * !YN)	0.00022	0.00022	0.00022
	(!A1 * B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(!A1 * B0 * C0 * !YN)	-0.00003	-0.00002	-0.00002
	(!A1 * B0 * C0 * !YN)	-0.00026	-0.00024	-0.00023
	(!A1 * B0 * !C0 * YN)	0.00021	0.00022	0.00022
	(!A1 * B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(!A1 * B0 * !C0 * YN)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * !C0 * YN)	-0.00025	-0.00024	-0.00023
	(!A1 * !B0 * C0 * YN)	0.00022	0.00022	0.00022
	(!A1 * !B0 * C0 * YN)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * YN)	-0.00006	-0.00006	-0.00006
	(!A1 * !B0 * C0 * YN)	-0.00008	-0.00008	-0.00008
	(!A1 * !B0 * !C0 * YN)	0.00022	0.00022	0.00022
	(!A1 * !B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C0 * YN)	-0.00007	-0.00007	-0.00007
	(!A1 * !B0 * !C0 * YN)	-0.00008	-0.00008	-0.00008

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X1P4H7H	(A0 * B0 * C0 * !YN)	-0.00016	-0.00013	-0.00010
	(A0 * B0 * C0 * !YN)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(A0 * B0 * C0 * !YN)	0.00027	0.00027	0.00028
	(A0 * B0 * !C0 * YN)	-0.00016	-0.00014	-0.00010
	(A0 * B0 * !C0 * YN)	-0.00004	-0.00003	-0.00003
	(A0 * B0 * !C0 * YN)	0.00000	0.00001	0.00001
	(A0 * B0 * !C0 * YN)	0.00027	0.00027	0.00027
	(A0 * !B0 * !C0 * YN)	-0.00021	-0.00021	-0.00021
	(A0 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !C0 * YN)	0.00002	0.00002	0.00002
	(A0 * !B0 * !C0 * YN)	0.00022	0.00022	0.00022
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	-0.00021	-0.00021	-0.00021
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	0.00002	0.00002	0.00002
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	0.00023	0.00023	0.00023
	(!A0 * !B0 * C0 * YN)	-0.00021	-0.00021	-0.00021
	(!A0 * !B0 * C0 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * YN)	0.00002	0.00002	0.00002
	(!A0 * !B0 * C0 * YN)	0.00022	0.00023	0.00023
	(!A0 * !B0 * !C0 * YN)	-0.00021	-0.00021	-0.00021
	(!A0 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * YN)	0.00002	0.00002	0.00002
	(!A0 * !B0 * !C0 * YN)	0.00022	0.00022	0.00022

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X1P4H7H	(A0 * B0 * C0 * !YN)	0.00015	0.00015	0.00016
	(A0 * B0 * C0 * !YN)	0.00003	0.00003	0.00003
	(A0 * B0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * C0 * !YN)	-0.00027	-0.00027	-0.00027
	(A0 * B0 * !C0 * YN)	0.00015	0.00015	0.00016
	(A0 * B0 * !C0 * YN)	0.00003	0.00003	0.00004
	(A0 * B0 * !C0 * YN)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * !C0 * YN)	-0.00027	-0.00027	-0.00027
	(A0 * !B0 * !C0 * YN)	0.00021	0.00021	0.00021
	(A0 * !B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(A0 * !B0 * !C0 * YN)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * !C0 * YN)	-0.00022	-0.00021	-0.00019
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	0.00021	0.00021	0.00021
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	-0.00023	-0.00022	-0.00021
	(!A0 * !B0 * C0 * YN)	0.00021	0.00021	0.00021
	(!A0 * !B0 * C0 * YN)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * C0 * YN)	-0.00022	-0.00021	-0.00020
	(!A0 * !B0 * !C0 * YN)	0.00021	0.00021	0.00021
	(!A0 * !B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !C0 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * !C0 * YN)	-0.00022	-0.00021	-0.00020

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X1P4H7H	(A0 * A1 * C0 * !YN)	-0.00000	0.00000	0.00000
	(A0 * A1 * C0 * !YN)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * C0 * !YN)	0.00001	0.00001	0.00001
	(A0 * A1 * C0 * !YN)	0.00037	0.00038	0.00038
	(A0 * A1 * !C0 * YN)	-0.00016	-0.00014	-0.00011
	(A0 * A1 * !C0 * YN)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !C0 * YN)	0.00001	0.00001	0.00001
	(A0 * A1 * !C0 * YN)	0.00029	0.00029	0.00029
	(A0 * !A1 * !C0 * YN)	-0.00021	-0.00021	-0.00021
	(A0 * !A1 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !C0 * YN)	0.00002	0.00003	0.00003
	(A0 * !A1 * !C0 * YN)	0.00023	0.00023	0.00023
	(!A0 * !C0 * YN)	-0.00022	-0.00021	-0.00021
	(!A0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !C0 * YN)	0.00002	0.00002	0.00002
	(!A0 * !C0 * YN)	0.00023	0.00023	0.00024

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X1P4H7H	(A0 * A1 * C0 * !YN)	-0.00000	0.00000	0.00000
	(A0 * A1 * C0 * !YN)	0.00004	0.00005	0.00005
	(A0 * A1 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * C0 * !YN)	-0.00038	-0.00037	-0.00037
	(A0 * A1 * !C0 * YN)	0.00016	0.00016	0.00016
	(A0 * A1 * !C0 * YN)	0.00003	0.00003	0.00003
	(A0 * A1 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !C0 * YN)	-0.00029	-0.00029	-0.00029
	(A0 * !A1 * !C0 * YN)	0.00021	0.00021	0.00021
	(A0 * !A1 * !C0 * YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !C0 * YN)	-0.00003	-0.00003	-0.00002
	(A0 * !A1 * !C0 * YN)	-0.00023	-0.00021	-0.00018
	(!A0 * !C0 * YN)	0.00021	0.00021	0.00022
	(!A0 * !C0 * YN)	0.00001	0.00001	0.00001
	(!A0 * !C0 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !C0 * YN)	-0.00023	-0.00022	-0.00019

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X1P4H7H	(A0 * !A1 * !B0 * YN)	-0.00033	-0.00032	-0.00032
	(A0 * !A1 * !B0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B0 * YN)	0.00003	0.00004	0.00004
	(A0 * !A1 * !B0 * YN)	0.00007	0.00008	0.00008
	(!A0 * !B0 * YN)	-0.00033	-0.00032	-0.00032
	(!A0 * !B0 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * YN)	0.00003	0.00003	0.00003
	(!A0 * !B0 * YN)	0.00008	0.00008	0.00008

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X1P4H7H	(A0 * !A1 * !B0 * YN)	0.00032	0.00033	0.00033
	(A0 * !A1 * !B0 * YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B0 * YN)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * !B0 * YN)	-0.00008	-0.00008	-0.00007
	(!A0 * !B0 * YN)	0.00032	0.00033	0.00033
	(!A0 * !B0 * YN)	0.00001	0.00001	0.00001
	(!A0 * !B0 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !B0 * YN)	-0.00008	-0.00008	-0.00008

AOAI211X2H7H

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

Cell Description

AOAI

YN=! ((A0 & A1)+B0) & C0

Truth Table

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

Footprint

Cell Name	Area
AOAI211X2H7H	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	YN
AOAI211X2H7H	0.00110	0.00107	0.00117	0.00123	0.02700

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOAI211X2H7H	0.00000	0.02328	0.03532

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOAI211X2H7H	A0->YN (FR)	0.05228	0.23503	0.75572
	A1->YN (FR)	0.05477	0.23915	0.75975
	B0->YN (FR)	0.04733	0.22561	0.74478
	C0->YN (FR)	0.01931	0.13695	0.54285

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOAI211X2H7H	A0->YN (RF)	0.05389	0.22998	0.73696
	A1->YN (RF)	0.05570	0.22800	0.71074
	B0->YN (RF)	0.03304	0.17165	0.59398
	C0->YN (RF)	0.04207	0.21143	0.71117

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOAI211X2H7H	A0	0.00175	0.00181	0.00184
	A0	-0.00023	-0.00023	-0.00023
	A0	0.00014	0.00014	0.00014
	A0	-0.00011	-0.00006	-0.00004
	A1	0.00192	0.00197	0.00199
	A1	-0.00023	-0.00023	-0.00023
	A1	0.00020	0.00021	0.00021
	A1	-0.00009	-0.00007	-0.00005
	B0	0.00144	0.00150	0.00155
	B0	-0.00010	-0.00010	-0.00010
	B0	0.00020	0.00021	0.00021
	B0	-0.00015	-0.00011	-0.00007
	C0	0.00135	0.00140	0.00146
	C0	-0.00010	-0.00010	-0.00010
	C0	0.00004	0.00004	0.00005
	C0	-0.00018	-0.00012	-0.00006

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOAI211X2H7H	A0	-0.00017	-0.00014	-0.00011
	A0	0.00023	0.00023	0.00023
	A0	-0.00014	-0.00014	-0.00014
	A0	0.00170	0.00173	0.00176
	A1	-0.00017	-0.00013	-0.00011
	A1	0.00023	0.00023	0.00023
	A1	-0.00021	-0.00021	-0.00020
	A1	0.00192	0.00195	0.00198
	B0	-0.00017	-0.00013	-0.00010
	B0	0.00010	0.00010	0.00011
	B0	-0.00014	-0.00014	-0.00014
	B0	0.00158	0.00162	0.00165
	C0	-0.00018	-0.00013	-0.00009
	C0	0.00021	0.00023	0.00025
	C0	-0.00004	-0.00004	-0.00003
	C0	0.00121	0.00130	0.00135

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X2H7H	(A1 * B0 * C0 * !YN)	-0.00018	-0.00016	-0.00012
	(A1 * B0 * C0 * !YN)	-0.00004	-0.00004	-0.00004
	(A1 * B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(A1 * B0 * C0 * !YN)	0.00032	0.00032	0.00033
	(A1 * B0 * !C0 * YN)	-0.00018	-0.00016	-0.00013
	(A1 * B0 * !C0 * YN)	-0.00004	-0.00004	-0.00004
	(A1 * B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * YN)	0.00032	0.00032	0.00032
	(A1 * !B0 * !C0 * YN)	-0.00025	-0.00025	-0.00025
	(A1 * !B0 * !C0 * YN)	-0.00001	-0.00002	-0.00001
	(A1 * !B0 * !C0 * YN)	0.00002	0.00003	0.00003
	(A1 * !B0 * !C0 * YN)	0.00026	0.00026	0.00026
	(!A1 * B0 * C0 * !YN)	-0.00025	-0.00025	-0.00024
	(!A1 * B0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * C0 * !YN)	0.00002	0.00003	0.00003
	(!A1 * B0 * C0 * !YN)	0.00027	0.00028	0.00028
	(!A1 * B0 * !C0 * YN)	-0.00025	-0.00025	-0.00024
	(!A1 * B0 * !C0 * YN)	-0.00002	-0.00001	-0.00001
	(!A1 * B0 * !C0 * YN)	0.00002	0.00002	0.00002
	(!A1 * B0 * !C0 * YN)	0.00027	0.00028	0.00028
	(!A1 * !B0 * C0 * YN)	-0.00025	-0.00025	-0.00025
	(!A1 * !B0 * C0 * YN)	-0.00002	-0.00001	-0.00001
	(!A1 * !B0 * C0 * YN)	0.00007	0.00007	0.00007
	(!A1 * !B0 * C0 * YN)	0.00008	0.00008	0.00008
	(!A1 * !B0 * !C0 * YN)	-0.00025	-0.00025	-0.00025
	(!A1 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * YN)	0.00008	0.00008	0.00008
	(!A1 * !B0 * !C0 * YN)	0.00008	0.00008	0.00008

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X2H7H	(A1 * B0 * C0 * !YN)	0.00018	0.00018	0.00018
	(A1 * B0 * C0 * !YN)	0.00004	0.00004	0.00004
	(A1 * B0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * C0 * !YN)	-0.00032	-0.00032	-0.00031
	(A1 * B0 * !C0 * YN)	0.00018	0.00018	0.00018
	(A1 * B0 * !C0 * YN)	0.00004	0.00004	0.00004
	(A1 * B0 * !C0 * YN)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !C0 * YN)	-0.00032	-0.00032	-0.00032
	(A1 * !B0 * !C0 * YN)	0.00025	0.00025	0.00026
	(A1 * !B0 * !C0 * YN)	0.00001	0.00002	0.00002
	(A1 * !B0 * !C0 * YN)	-0.00003	-0.00003	-0.00002
	(A1 * !B0 * !C0 * YN)	-0.00026	-0.00024	-0.00021
	(!A1 * B0 * C0 * !YN)	0.00024	0.00025	0.00025
	(!A1 * B0 * C0 * !YN)	0.00001	0.00002	0.00002
	(!A1 * B0 * C0 * !YN)	-0.00003	-0.00003	-0.00002
	(!A1 * B0 * C0 * !YN)	-0.00028	-0.00027	-0.00025
	(!A1 * B0 * !C0 * YN)	0.00024	0.00025	0.00025
	(!A1 * B0 * !C0 * YN)	0.00001	0.00002	0.00002
	(!A1 * B0 * !C0 * YN)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * !C0 * YN)	-0.00028	-0.00027	-0.00025
	(!A1 * !B0 * C0 * YN)	0.00025	0.00025	0.00025
	(!A1 * !B0 * C0 * YN)	0.00001	0.00002	0.00002
	(!A1 * !B0 * C0 * YN)	-0.00007	-0.00007	-0.00007
	(!A1 * !B0 * C0 * YN)	-0.00008	-0.00008	-0.00008
	(!A1 * !B0 * !C0 * YN)	0.00025	0.00025	0.00025
	(!A1 * !B0 * !C0 * YN)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !C0 * YN)	-0.00008	-0.00008	-0.00008
	(!A1 * !B0 * !C0 * YN)	-0.00008	-0.00008	-0.00008

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X2H7H	(A0 * B0 * C0 * !YN)	-0.00018	-0.00015	-0.00012
	(A0 * B0 * C0 * !YN)	-0.00004	-0.00004	-0.00004
	(A0 * B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(A0 * B0 * C0 * !YN)	0.00029	0.00030	0.00030
	(A0 * B0 * !C0 * YN)	-0.00018	-0.00016	-0.00012
	(A0 * B0 * !C0 * YN)	-0.00004	-0.00004	-0.00004
	(A0 * B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * YN)	0.00029	0.00029	0.00029
	(A0 * !B0 * !C0 * YN)	-0.00024	-0.00024	-0.00024
	(A0 * !B0 * !C0 * YN)	-0.00002	-0.00002	-0.00001
	(A0 * !B0 * !C0 * YN)	0.00002	0.00003	0.00003
	(A0 * !B0 * !C0 * YN)	0.00024	0.00024	0.00024
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	-0.00024	-0.00024	-0.00024
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	-0.00002	-0.00002	-0.00001
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	0.00002	0.00002	0.00002
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	0.00025	0.00025	0.00025
	(!A0 * !B0 * C0 * YN)	-0.00024	-0.00024	-0.00024
	(!A0 * !B0 * C0 * YN)	-0.00002	-0.00002	-0.00001
	(!A0 * !B0 * C0 * YN)	0.00002	0.00003	0.00003
	(!A0 * !B0 * C0 * YN)	0.00024	0.00024	0.00024
	(!A0 * !B0 * !C0 * YN)	-0.00024	-0.00024	-0.00024
	(!A0 * !B0 * !C0 * YN)	-0.00002	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * YN)	0.00003	0.00003	0.00003
	(!A0 * !B0 * !C0 * YN)	0.00024	0.00024	0.00024

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X2H7H	(A0 * B0 * C0 * !YN)	0.00018	0.00018	0.00018
	(A0 * B0 * C0 * !YN)	0.00004	0.00004	0.00004
	(A0 * B0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * C0 * !YN)	-0.00029	-0.00029	-0.00029
	(A0 * B0 * !C0 * YN)	0.00018	0.00018	0.00018
	(A0 * B0 * !C0 * YN)	0.00004	0.00004	0.00004
	(A0 * B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * YN)	-0.00029	-0.00029	-0.00029
	(A0 * !B0 * !C0 * YN)	0.00024	0.00024	0.00024
	(A0 * !B0 * !C0 * YN)	0.00001	0.00002	0.00002
	(A0 * !B0 * !C0 * YN)	-0.00003	-0.00002	-0.00002
	(A0 * !B0 * !C0 * YN)	-0.00024	-0.00022	-0.00020
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	0.00024	0.00024	0.00024
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	0.00001	0.00002	0.00002
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	-0.00025	-0.00024	-0.00023
	(!A0 * !B0 * C0 * YN)	0.00024	0.00024	0.00024
	(!A0 * !B0 * C0 * YN)	0.00001	0.00002	0.00002
	(!A0 * !B0 * C0 * YN)	-0.00003	-0.00003	-0.00002
	(!A0 * !B0 * C0 * YN)	-0.00024	-0.00023	-0.00021
	(!A0 * !B0 * !C0 * YN)	0.00024	0.00024	0.00024
	(!A0 * !B0 * !C0 * YN)	0.00001	0.00002	0.00002
	(!A0 * !B0 * !C0 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !B0 * !C0 * YN)	-0.00024	-0.00023	-0.00021

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X2H7H	(A0 * A1 * C0 * !YN)	-0.00000	0.00000	0.00000
	(A0 * A1 * C0 * !YN)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * C0 * !YN)	0.00001	0.00001	0.00001
	(A0 * A1 * C0 * !YN)	0.00041	0.00042	0.00042
	(A0 * A1 * !C0 * YN)	-0.00019	-0.00017	-0.00013
	(A0 * A1 * !C0 * YN)	-0.00004	-0.00004	-0.00003
	(A0 * A1 * !C0 * YN)	0.00001	0.00001	0.00001
	(A0 * A1 * !C0 * YN)	0.00032	0.00032	0.00032
	(A0 * !A1 * !C0 * YN)	-0.00025	-0.00025	-0.00025
	(A0 * !A1 * !C0 * YN)	-0.00002	-0.00001	-0.00001
	(A0 * !A1 * !C0 * YN)	0.00003	0.00003	0.00003
	(A0 * !A1 * !C0 * YN)	0.00024	0.00024	0.00025
	(!A0 * !C0 * YN)	-0.00025	-0.00025	-0.00025
	(!A0 * !C0 * YN)	-0.00002	-0.00002	-0.00001
	(!A0 * !C0 * YN)	0.00003	0.00003	0.00003
	(!A0 * !C0 * YN)	0.00025	0.00026	0.00026

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X2H7H	(A0 * A1 * C0 * !YN)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * !YN)	0.00005	0.00005	0.00005
	(A0 * A1 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * C0 * !YN)	-0.00042	-0.00041	-0.00041
	(A0 * A1 * !C0 * YN)	0.00019	0.00019	0.00019
	(A0 * A1 * !C0 * YN)	0.00003	0.00004	0.00004
	(A0 * A1 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !C0 * YN)	-0.00032	-0.00032	-0.00031
	(A0 * !A1 * !C0 * YN)	0.00025	0.00025	0.00025
	(A0 * !A1 * !C0 * YN)	0.00001	0.00002	0.00002
	(A0 * !A1 * !C0 * YN)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * !C0 * YN)	-0.00024	-0.00022	-0.00019
	(!A0 * !C0 * YN)	0.00025	0.00025	0.00025
	(!A0 * !C0 * YN)	0.00001	0.00002	0.00002
	(!A0 * !C0 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !C0 * YN)	-0.00026	-0.00023	-0.00020

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X2H7H	(A0 * !A1 * !B0 * YN)	-0.00037	-0.00036	-0.00036
	(A0 * !A1 * !B0 * YN)	-0.00002	-0.00001	-0.00001
	(A0 * !A1 * !B0 * YN)	0.00004	0.00004	0.00004
	(A0 * !A1 * !B0 * YN)	0.00007	0.00007	0.00007
	(!A0 * !B0 * YN)	-0.00037	-0.00036	-0.00036
	(!A0 * !B0 * YN)	-0.00002	-0.00002	-0.00001
	(!A0 * !B0 * YN)	0.00004	0.00004	0.00004
	(!A0 * !B0 * YN)	0.00007	0.00008	0.00008

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X2H7H	(A0 * !A1 * !B0 * YN)	0.00036	0.00037	0.00037
	(A0 * !A1 * !B0 * YN)	0.00001	0.00002	0.00002
	(A0 * !A1 * !B0 * YN)	-0.00004	-0.00004	-0.00004
	(A0 * !A1 * !B0 * YN)	-0.00007	-0.00007	-0.00007
	(!A0 * !B0 * YN)	0.00036	0.00037	0.00037
	(!A0 * !B0 * YN)	0.00001	0.00002	0.00002
	(!A0 * !B0 * YN)	-0.00004	-0.00004	-0.00004
	(!A0 * !B0 * YN)	-0.00008	-0.00007	-0.00007

AOAI211X3H7H

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

Cell Description

AOAI

YN=! ((A0 & A1)+B0) & C0

Truth Table

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

Footprint

Cell Name	Area
AOAI211X3H7H	3.64000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	YN
AOAI211X3H7H	0.00180	0.00178	0.00192	0.00202	0.04237

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOAI211X3H7H	0.00000	0.02897	0.03584

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOAI211X3H7H	A0->YN (FR)	0.05184	0.23262	0.74948
	A1->YN (FR)	0.05649	0.23990	0.75713
	B0->YN (FR)	0.04866	0.22645	0.74185
	C0->YN (FR)	0.01921	0.13534	0.53754

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOAI211X3H7H	A0->YN (RF)	0.05357	0.22923	0.73444
	A1->YN (RF)	0.05650	0.22903	0.70879
	B0->YN (RF)	0.03404	0.17260	0.59197
	C0->YN (RF)	0.04099	0.21014	0.71085

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOAI211X3H7H	A0	0.00298	0.00305	0.00310
	A0	-0.00034	-0.00034	-0.00034
	A0	0.00021	0.00022	0.00022
	A0	-0.00010	-0.00002	0.00003
	A1	0.00336	0.00343	0.00347
	A1	-0.00035	-0.00034	-0.00034
	A1	0.00031	0.00032	0.00032
	A1	-0.00009	-0.00004	0.00000
	B0	0.00254	0.00267	0.00275
	B0	-0.00015	-0.00015	-0.00013
	B0	0.00031	0.00031	0.00032
	B0	-0.00012	-0.00006	0.00000
	C0	0.00230	0.00238	0.00247
	C0	-0.00015	-0.00015	-0.00014
	C0	0.00005	0.00006	0.00008
	C0	-0.00029	-0.00012	0.00325

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOAI211X3H7H	A0	-0.00026	-0.00021	-0.00017
	A0	0.00034	0.00034	0.00034
	A0	-0.00022	-0.00022	-0.00021
	A0	0.00280	0.00286	0.00290
	A1	-0.00026	-0.00021	-0.00017
	A1	0.00034	0.00034	0.00035
	A1	-0.00032	-0.00032	-0.00031
	A1	0.00331	0.00337	0.00341
	B0	-0.00027	-0.00019	-0.00014
	B0	0.00015	0.00015	0.00017
	B0	-0.00022	-0.00021	-0.00021
	B0	0.00273	0.00280	0.00285
	C0	-0.00026	-0.00017	-0.00010
	C0	0.00034	0.00034	0.00034
	C0	-0.00006	-0.00006	0.00000
	C0	0.00200	0.00213	0.00221

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X3H7H	(A1 * B0 * C0 * !YN)	-0.00028	-0.00024	-0.00019
	(A1 * B0 * C0 * !YN)	-0.00006	-0.00006	-0.00006
	(A1 * B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(A1 * B0 * C0 * !YN)	0.00059	0.00060	0.00061
	(A1 * B0 * !C0 * YN)	-0.00028	-0.00025	-0.00020
	(A1 * B0 * !C0 * YN)	-0.00006	-0.00006	-0.00005
	(A1 * B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * YN)	0.00059	0.00059	0.00059
	(A1 * !B0 * !C0 * YN)	-0.00039	-0.00039	-0.00039
	(A1 * !B0 * !C0 * YN)	-0.00003	-0.00002	-0.00002
	(A1 * !B0 * !C0 * YN)	0.00004	0.00004	0.00004
	(A1 * !B0 * !C0 * YN)	0.00049	0.00049	0.00049
	(!A1 * B0 * C0 * !YN)	-0.00038	-0.00038	-0.00038
	(!A1 * B0 * C0 * !YN)	-0.00003	-0.00002	-0.00002
	(!A1 * B0 * C0 * !YN)	0.00003	0.00003	0.00005
	(!A1 * B0 * C0 * !YN)	0.00050	0.00051	0.00051
	(!A1 * B0 * !C0 * YN)	-0.00038	-0.00038	-0.00037
	(!A1 * B0 * !C0 * YN)	-0.00003	-0.00002	-0.00002
	(!A1 * B0 * !C0 * YN)	0.00003	0.00003	0.00003
	(!A1 * B0 * !C0 * YN)	0.00050	0.00051	0.00051
	(!A1 * !B0 * C0 * YN)	-0.00040	-0.00040	-0.00039
	(!A1 * !B0 * C0 * YN)	-0.00003	-0.00002	-0.00002
	(!A1 * !B0 * C0 * YN)	0.00010	0.00010	0.00010
	(!A1 * !B0 * C0 * YN)	0.00017	0.00017	0.00017
	(!A1 * !B0 * !C0 * YN)	-0.00040	-0.00040	-0.00040
	(!A1 * !B0 * !C0 * YN)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !C0 * YN)	0.00012	0.00012	0.00012
	(!A1 * !B0 * !C0 * YN)	0.00017	0.00017	0.00017

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X3H7H	(A1 * B0 * C0 * !YN)	0.00028	0.00028	0.00028
	(A1 * B0 * C0 * !YN)	0.00006	0.00006	0.00006
	(A1 * B0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * C0 * !YN)	-0.00059	-0.00059	-0.00059
	(A1 * B0 * !C0 * YN)	0.00028	0.00028	0.00029
	(A1 * B0 * !C0 * YN)	0.00005	0.00006	0.00006
	(A1 * B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * YN)	-0.00059	-0.00059	-0.00059
	(A1 * !B0 * !C0 * YN)	0.00039	0.00039	0.00040
	(A1 * !B0 * !C0 * YN)	0.00002	0.00003	0.00003
	(A1 * !B0 * !C0 * YN)	-0.00004	-0.00004	-0.00003
	(A1 * !B0 * !C0 * YN)	-0.00049	-0.00046	-0.00040
	(!A1 * B0 * C0 * !YN)	0.00038	0.00038	0.00038
	(!A1 * B0 * C0 * !YN)	0.00002	0.00002	0.00003
	(!A1 * B0 * C0 * !YN)	-0.00005	-0.00003	-0.00003
	(!A1 * B0 * C0 * !YN)	-0.00051	-0.00049	-0.00045
	(!A1 * B0 * !C0 * YN)	0.00038	0.00038	0.00038
	(!A1 * B0 * !C0 * YN)	0.00002	0.00002	0.00003
	(!A1 * B0 * !C0 * YN)	-0.00003	-0.00003	-0.00003
	(!A1 * B0 * !C0 * YN)	-0.00051	-0.00049	-0.00045
	(!A1 * !B0 * C0 * YN)	0.00040	0.00040	0.00040
	(!A1 * !B0 * C0 * YN)	0.00002	0.00002	0.00003
	(!A1 * !B0 * C0 * YN)	-0.00010	-0.00010	-0.00010
	(!A1 * !B0 * C0 * YN)	-0.00017	-0.00017	-0.00017
	(!A1 * !B0 * !C0 * YN)	0.00040	0.00040	0.00040
	(!A1 * !B0 * !C0 * YN)	0.00002	0.00002	0.00003
	(!A1 * !B0 * !C0 * YN)	-0.00012	-0.00012	-0.00012
	(!A1 * !B0 * !C0 * YN)	-0.00017	-0.00017	-0.00017

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X3H7H	(A0 * B0 * C0 * !YN)	-0.00027	-0.00024	-0.00018
	(A0 * B0 * C0 * !YN)	-0.00006	-0.00006	-0.00006
	(A0 * B0 * C0 * !YN)	0.00000	0.00001	0.00001
	(A0 * B0 * C0 * !YN)	0.00061	0.00061	0.00062
	(A0 * B0 * !C0 * YN)	-0.00028	-0.00024	-0.00019
	(A0 * B0 * !C0 * YN)	-0.00007	-0.00006	-0.00006
	(A0 * B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * YN)	0.00060	0.00061	0.00061
	(A0 * !B0 * !C0 * YN)	-0.00038	-0.00038	-0.00037
	(A0 * !B0 * !C0 * YN)	-0.00003	-0.00002	-0.00002
	(A0 * !B0 * !C0 * YN)	0.00003	0.00004	0.00004
	(A0 * !B0 * !C0 * YN)	0.00049	0.00049	0.00050
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	-0.00037	-0.00037	-0.00037
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	-0.00003	-0.00002	-0.00002
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	0.00003	0.00004	0.00004
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	0.00052	0.00052	0.00052
	(!A0 * !B0 * C0 * YN)	-0.00037	-0.00037	-0.00037
	(!A0 * !B0 * C0 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * C0 * YN)	0.00004	0.00004	0.00004
	(!A0 * !B0 * C0 * YN)	0.00051	0.00051	0.00052
	(!A0 * !B0 * !C0 * YN)	-0.00037	-0.00037	-0.00037
	(!A0 * !B0 * !C0 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * !C0 * YN)	0.00004	0.00004	0.00004
	(!A0 * !B0 * !C0 * YN)	0.00051	0.00051	0.00051

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X3H7H	(A0 * B0 * C0 * !YN)	0.00027	0.00027	0.00027
	(A0 * B0 * C0 * !YN)	0.00006	0.00006	0.00006
	(A0 * B0 * C0 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * C0 * !YN)	-0.00061	-0.00061	-0.00060
	(A0 * B0 * !C0 * YN)	0.00027	0.00028	0.00028
	(A0 * B0 * !C0 * YN)	0.00006	0.00006	0.00007
	(A0 * B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * YN)	-0.00060	-0.00060	-0.00060
	(A0 * !B0 * !C0 * YN)	0.00037	0.00038	0.00038
	(A0 * !B0 * !C0 * YN)	0.00002	0.00003	0.00003
	(A0 * !B0 * !C0 * YN)	-0.00004	-0.00004	-0.00003
	(A0 * !B0 * !C0 * YN)	-0.00049	-0.00046	-0.00041
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	0.00037	0.00037	0.00037
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	0.00002	0.00003	0.00003
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	-0.00004	-0.00004	-0.00003
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	-0.00052	-0.00050	-0.00047
	(!A0 * !B0 * C0 * YN)	0.00037	0.00037	0.00037
	(!A0 * !B0 * C0 * YN)	0.00002	0.00002	0.00003
	(!A0 * !B0 * C0 * YN)	-0.00004	-0.00004	-0.00004
	(!A0 * !B0 * C0 * YN)	-0.00051	-0.00049	-0.00045
	(!A0 * !B0 * !C0 * YN)	0.00037	0.00037	0.00037
	(!A0 * !B0 * !C0 * YN)	0.00002	0.00002	0.00003
	(!A0 * !B0 * !C0 * YN)	-0.00004	-0.00004	-0.00004
	(!A0 * !B0 * !C0 * YN)	-0.00051	-0.00048	-0.00045

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X3H7H	(A0 * A1 * C0 * !YN)	-0.00000	0.00000	0.00000
	(A0 * A1 * C0 * !YN)	-0.00008	-0.00008	-0.00008
	(A0 * A1 * C0 * !YN)	0.00001	0.00001	0.00001
	(A0 * A1 * C0 * !YN)	0.00072	0.00073	0.00073
	(A0 * A1 * !C0 * YN)	-0.00033	-0.00029	-0.00024
	(A0 * A1 * !C0 * YN)	-0.00006	-0.00006	-0.00006
	(A0 * A1 * !C0 * YN)	0.00001	0.00001	0.00001
	(A0 * A1 * !C0 * YN)	0.00055	0.00055	0.00055
	(A0 * !A1 * !C0 * YN)	-0.00043	-0.00043	-0.00043
	(A0 * !A1 * !C0 * YN)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * !C0 * YN)	0.00003	0.00004	0.00004
	(A0 * !A1 * !C0 * YN)	0.00043	0.00043	0.00044
	(!A0 * !C0 * YN)	-0.00044	-0.00043	-0.00041
	(!A0 * !C0 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !C0 * YN)	0.00004	0.00004	0.00005
	(!A0 * !C0 * YN)	0.00043	0.00044	0.00045

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X3H7H	(A0 * A1 * C0 * !YN)	-0.00000	0.00000	0.00000
	(A0 * A1 * C0 * !YN)	0.00009	0.00009	0.00009
	(A0 * A1 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * C0 * !YN)	-0.00073	-0.00072	-0.00072
	(A0 * A1 * !C0 * YN)	0.00033	0.00033	0.00033
	(A0 * A1 * !C0 * YN)	0.00006	0.00006	0.00006
	(A0 * A1 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !C0 * YN)	-0.00055	-0.00055	-0.00054
	(A0 * !A1 * !C0 * YN)	0.00043	0.00043	0.00043
	(A0 * !A1 * !C0 * YN)	0.00002	0.00003	0.00003
	(A0 * !A1 * !C0 * YN)	-0.00004	-0.00004	-0.00003
	(A0 * !A1 * !C0 * YN)	-0.00043	-0.00040	-0.00035
	(!A0 * !C0 * YN)	0.00044	0.00044	0.00044
	(!A0 * !C0 * YN)	0.00002	0.00003	0.00003
	(!A0 * !C0 * YN)	-0.00005	-0.00004	-0.00004
	(!A0 * !C0 * YN)	-0.00045	-0.00042	-0.00037

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X3H7H	(A0 * !A1 * !B0 * YN)	-0.00061	-0.00060	-0.00059
	(A0 * !A1 * !B0 * YN)	-0.00003	-0.00002	-0.00002
	(A0 * !A1 * !B0 * YN)	0.00006	0.00006	0.00006
	(A0 * !A1 * !B0 * YN)	0.00014	0.00014	0.00014
	(!A0 * !B0 * YN)	-0.00061	-0.00060	-0.00059
	(!A0 * !B0 * YN)	-0.00003	-0.00002	-0.00002
	(!A0 * !B0 * YN)	0.00006	0.00006	0.00006
	(!A0 * !B0 * YN)	0.00015	0.00015	0.00015

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X3H7H	(A0 * !A1 * !B0 * YN)	0.00060	0.00060	0.00061
	(A0 * !A1 * !B0 * YN)	0.00002	0.00003	0.00003
	(A0 * !A1 * !B0 * YN)	-0.00006	-0.00006	-0.00006
	(A0 * !A1 * !B0 * YN)	-0.00014	-0.00014	-0.00014
	(!A0 * !B0 * YN)	0.00060	0.00060	0.00061
	(!A0 * !B0 * YN)	0.00002	0.00003	0.00003
	(!A0 * !B0 * YN)	-0.00006	-0.00006	-0.00006
	(!A0 * !B0 * YN)	-0.00015	-0.00015	-0.00015

AOAI211X4H7H

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

Cell Description

AOAI

YN=! ((A0 & A1)+B0) & C0

Truth Table

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

Footprint

Cell Name	Area
AOAI211X4H7H	4.20000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	YN
AOAI211X4H7H	0.00209	0.00207	0.00223	0.00236	0.05322

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOAI211X4H7H	0.00000	0.04636	0.07064

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOAI211X4H7H	A0->YN (FR)	0.04747	0.22951	0.75160
	A1->YN (FR)	0.05182	0.23652	0.75891
	B0->YN (FR)	0.04426	0.22339	0.74526
	C0->YN (FR)	0.01752	0.13377	0.53927

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOAI211X4H7H	A0->YN (RF)	0.04897	0.22459	0.73284
	A1->YN (RF)	0.05191	0.22469	0.70844
	B0->YN (RF)	0.03109	0.16937	0.59235
	C0->YN (RF)	0.03766	0.20653	0.70797

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOAI211X4H7H	A0	0.00345	0.00356	0.00362
	A0	-0.00046	-0.00045	-0.00045
	A0	0.00028	0.00028	0.00029
	A0	-0.00023	-0.00015	-0.00009
	A1	0.00392	0.00400	0.00406
	A1	-0.00046	-0.00045	-0.00045
	A1	0.00041	0.00041	0.00041
	A1	-0.00022	-0.00017	-0.00012
	B0	0.00296	0.00310	0.00319
	B0	-0.00021	-0.00020	-0.00018
	B0	0.00041	0.00041	0.00041
	B0	-0.00024	-0.00016	-0.00009
	C0	0.00269	0.00279	0.00291
	C0	-0.00021	-0.00020	-0.00020
	C0	0.00008	0.00008	0.00010
	C0	-0.00034	-0.00021	-0.00011

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOAI211X4H7H	A0	-0.00033	-0.00027	-0.00022
	A0	0.00045	0.00045	0.00046
	A0	-0.00029	-0.00028	-0.00028
	A0	0.00335	0.00342	0.00347
	A1	-0.00033	-0.00026	-0.00022
	A1	0.00045	0.00045	0.00046
	A1	-0.00041	-0.00041	-0.00041
	A1	0.00396	0.00402	0.00407
	B0	-0.00035	-0.00026	-0.00019
	B0	0.00018	0.00020	0.00022
	B0	-0.00028	-0.00028	-0.00028
	B0	0.00321	0.00330	0.00337
	C0	-0.00034	-0.00024	-0.00015
	C0	0.00037	0.00045	0.00049
	C0	-0.00008	-0.00008	-0.00006
	C0	0.00238	0.00256	0.00266

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X4H7H	(A1 * B0 * C0 * !YN)	-0.00036	-0.00031	-0.00024
	(A1 * B0 * C0 * !YN)	-0.00008	-0.00008	-0.00008
	(A1 * B0 * C0 * !YN)	0.00001	0.00002	0.00002
	(A1 * B0 * C0 * !YN)	0.00066	0.00066	0.00067
	(A1 * B0 * !C0 * YN)	-0.00036	-0.00032	-0.00025
	(A1 * B0 * !C0 * YN)	-0.00009	-0.00008	-0.00008
	(A1 * B0 * !C0 * YN)	0.00001	0.00002	0.00002
	(A1 * B0 * !C0 * YN)	0.00065	0.00065	0.00065
	(A1 * !B0 * !C0 * YN)	-0.00049	-0.00048	-0.00048
	(A1 * !B0 * !C0 * YN)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * !C0 * YN)	0.00004	0.00005	0.00005
	(A1 * !B0 * !C0 * YN)	0.00053	0.00054	0.00054
	(!A1 * B0 * C0 * !YN)	-0.00048	-0.00048	-0.00048
	(!A1 * B0 * C0 * !YN)	-0.00003	-0.00003	-0.00003
	(!A1 * B0 * C0 * !YN)	0.00004	0.00005	0.00005
	(!A1 * B0 * C0 * !YN)	0.00056	0.00056	0.00056
	(!A1 * B0 * !C0 * YN)	-0.00048	-0.00048	-0.00047
	(!A1 * B0 * !C0 * YN)	-0.00003	-0.00003	-0.00002
	(!A1 * B0 * !C0 * YN)	0.00004	0.00005	0.00005
	(!A1 * B0 * !C0 * YN)	0.00055	0.00056	0.00056
	(!A1 * !B0 * C0 * YN)	-0.00050	-0.00049	-0.00049
	(!A1 * !B0 * C0 * YN)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * C0 * YN)	0.00013	0.00014	0.00014
	(!A1 * !B0 * C0 * YN)	0.00015	0.00016	0.00016
	(!A1 * !B0 * !C0 * YN)	-0.00050	-0.00049	-0.00049
	(!A1 * !B0 * !C0 * YN)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * !C0 * YN)	0.00016	0.00016	0.00016
	(!A1 * !B0 * !C0 * YN)	0.00016	0.00016	0.00016

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X4H7H	(A1 * B0 * C0 * !YN)	0.00035	0.00035	0.00036
	(A1 * B0 * C0 * !YN)	0.00008	0.00008	0.00008
	(A1 * B0 * C0 * !YN)	-0.00002	-0.00002	-0.00001
	(A1 * B0 * C0 * !YN)	-0.00066	-0.00065	-0.00065
	(A1 * B0 * !C0 * YN)	0.00035	0.00035	0.00036
	(A1 * B0 * !C0 * YN)	0.00008	0.00008	0.00009
	(A1 * B0 * !C0 * YN)	-0.00002	-0.00001	-0.00001
	(A1 * B0 * !C0 * YN)	-0.00065	-0.00065	-0.00065
	(A1 * !B0 * !C0 * YN)	0.00049	0.00049	0.00050
	(A1 * !B0 * !C0 * YN)	0.00003	0.00003	0.00003
	(A1 * !B0 * !C0 * YN)	-0.00005	-0.00005	-0.00004
	(A1 * !B0 * !C0 * YN)	-0.00054	-0.00050	-0.00044
	(!A1 * B0 * C0 * !YN)	0.00048	0.00048	0.00048
	(!A1 * B0 * C0 * !YN)	0.00003	0.00003	0.00003
	(!A1 * B0 * C0 * !YN)	-0.00005	-0.00004	-0.00004
	(!A1 * B0 * C0 * !YN)	-0.00056	-0.00053	-0.00049
	(!A1 * B0 * !C0 * YN)	0.00048	0.00048	0.00048
	(!A1 * B0 * !C0 * YN)	0.00003	0.00003	0.00003
	(!A1 * B0 * !C0 * YN)	-0.00005	-0.00005	-0.00004
	(!A1 * B0 * !C0 * YN)	-0.00056	-0.00053	-0.00049
	(!A1 * !B0 * C0 * YN)	0.00049	0.00050	0.00050
	(!A1 * !B0 * C0 * YN)	0.00003	0.00003	0.00003
	(!A1 * !B0 * C0 * YN)	-0.00013	-0.00013	-0.00013
	(!A1 * !B0 * C0 * YN)	-0.00016	-0.00015	-0.00015
	(!A1 * !B0 * !C0 * YN)	0.00049	0.00050	0.00050
	(!A1 * !B0 * !C0 * YN)	0.00003	0.00003	0.00003
	(!A1 * !B0 * !C0 * YN)	-0.00016	-0.00016	-0.00016
	(!A1 * !B0 * !C0 * YN)	-0.00016	-0.00016	-0.00016

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X4H7H	(A0 * B0 * C0 * !YN)	-0.00035	-0.00030	-0.00024
	(A0 * B0 * C0 * !YN)	-0.00008	-0.00008	-0.00007
	(A0 * B0 * C0 * !YN)	0.00001	0.00002	0.00002
	(A0 * B0 * C0 * !YN)	0.00067	0.00067	0.00068
	(A0 * B0 * !C0 * YN)	-0.00035	-0.00031	-0.00025
	(A0 * B0 * !C0 * YN)	-0.00008	-0.00008	-0.00007
	(A0 * B0 * !C0 * YN)	0.00001	0.00002	0.00002
	(A0 * B0 * !C0 * YN)	0.00067	0.00067	0.00067
	(A0 * !B0 * !C0 * YN)	-0.00047	-0.00047	-0.00047
	(A0 * !B0 * !C0 * YN)	-0.00003	-0.00003	-0.00003
	(A0 * !B0 * !C0 * YN)	0.00005	0.00005	0.00005
	(A0 * !B0 * !C0 * YN)	0.00054	0.00054	0.00054
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	-0.00047	-0.00047	-0.00046
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	0.00004	0.00005	0.00005
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	0.00057	0.00057	0.00057
	(!A0 * !B0 * C0 * YN)	-0.00047	-0.00047	-0.00046
	(!A0 * !B0 * C0 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !B0 * C0 * YN)	0.00005	0.00005	0.00005
	(!A0 * !B0 * C0 * YN)	0.00056	0.00057	0.00057
	(!A0 * !B0 * !C0 * YN)	-0.00047	-0.00047	-0.00046
	(!A0 * !B0 * !C0 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !B0 * !C0 * YN)	0.00005	0.00005	0.00005
	(!A0 * !B0 * !C0 * YN)	0.00056	0.00056	0.00056

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X4H7H	(A0 * B0 * C0 * !YN)	0.00034	0.00035	0.00035
	(A0 * B0 * C0 * !YN)	0.00007	0.00008	0.00008
	(A0 * B0 * C0 * !YN)	-0.00002	-0.00001	-0.00001
	(A0 * B0 * C0 * !YN)	-0.00067	-0.00067	-0.00066
	(A0 * B0 * !C0 * YN)	0.00035	0.00035	0.00035
	(A0 * B0 * !C0 * YN)	0.00008	0.00008	0.00008
	(A0 * B0 * !C0 * YN)	-0.00002	-0.00002	-0.00001
	(A0 * B0 * !C0 * YN)	-0.00067	-0.00067	-0.00066
	(A0 * !B0 * !C0 * YN)	0.00047	0.00047	0.00047
	(A0 * !B0 * !C0 * YN)	0.00003	0.00003	0.00003
	(A0 * !B0 * !C0 * YN)	-0.00005	-0.00005	-0.00005
	(A0 * !B0 * !C0 * YN)	-0.00054	-0.00050	-0.00045
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	0.00046	0.00047	0.00047
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	0.00003	0.00003	0.00003
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	-0.00005	-0.00005	-0.00004
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	-0.00057	-0.00054	-0.00051
	(!A0 * !B0 * C0 * YN)	0.00046	0.00047	0.00047
	(!A0 * !B0 * C0 * YN)	0.00003	0.00003	0.00003
	(!A0 * !B0 * C0 * YN)	-0.00005	-0.00005	-0.00005
	(!A0 * !B0 * C0 * YN)	-0.00057	-0.00053	-0.00049
	(!A0 * !B0 * !C0 * YN)	0.00046	0.00047	0.00047
	(!A0 * !B0 * !C0 * YN)	0.00003	0.00003	0.00003
	(!A0 * !B0 * !C0 * YN)	-0.00005	-0.00005	-0.00005
	(!A0 * !B0 * !C0 * YN)	-0.00056	-0.00053	-0.00049

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X4H7H	(A0 * A1 * C0 * !YN)	-0.00000	0.00000	0.00000
	(A0 * A1 * C0 * !YN)	-0.00011	-0.00011	-0.00011
	(A0 * A1 * C0 * !YN)	0.00001	0.00002	0.00002
	(A0 * A1 * C0 * !YN)	0.00081	0.00082	0.00082
	(A0 * A1 * !C0 * YN)	-0.00041	-0.00036	-0.00029
	(A0 * A1 * !C0 * YN)	-0.00008	-0.00008	-0.00007
	(A0 * A1 * !C0 * YN)	0.00001	0.00001	0.00002
	(A0 * A1 * !C0 * YN)	0.00060	0.00060	0.00060
	(A0 * !A1 * !C0 * YN)	-0.00054	-0.00053	-0.00053
	(A0 * !A1 * !C0 * YN)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * !C0 * YN)	0.00005	0.00005	0.00005
	(A0 * !A1 * !C0 * YN)	0.00047	0.00048	0.00048
	(!A0 * !C0 * YN)	-0.00054	-0.00054	-0.00053
	(!A0 * !C0 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !C0 * YN)	0.00005	0.00005	0.00005
	(!A0 * !C0 * YN)	0.00049	0.00049	0.00049

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X4H7H	(A0 * A1 * C0 * !YN)	-0.00000	0.00000	0.00000
	(A0 * A1 * C0 * !YN)	0.00011	0.00012	0.00012
	(A0 * A1 * C0 * !YN)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * C0 * !YN)	-0.00082	-0.00081	-0.00081
	(A0 * A1 * !C0 * YN)	0.00041	0.00041	0.00041
	(A0 * A1 * !C0 * YN)	0.00008	0.00008	0.00008
	(A0 * A1 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !C0 * YN)	-0.00060	-0.00060	-0.00059
	(A0 * !A1 * !C0 * YN)	0.00053	0.00054	0.00054
	(A0 * !A1 * !C0 * YN)	0.00003	0.00003	0.00003
	(A0 * !A1 * !C0 * YN)	-0.00005	-0.00005	-0.00005
	(A0 * !A1 * !C0 * YN)	-0.00047	-0.00044	-0.00037
	(!A0 * !C0 * YN)	0.00054	0.00054	0.00054
	(!A0 * !C0 * YN)	0.00003	0.00003	0.00003
	(!A0 * !C0 * YN)	-0.00005	-0.00005	-0.00005
	(!A0 * !C0 * YN)	-0.00049	-0.00046	-0.00040

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X4H7H	(A0 * !A1 * !B0 * YN)	-0.00073	-0.00072	-0.00072
	(A0 * !A1 * !B0 * YN)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * !B0 * YN)	0.00008	0.00008	0.00008
	(A0 * !A1 * !B0 * YN)	0.00013	0.00013	0.00013
	(!A0 * !B0 * YN)	-0.00073	-0.00072	-0.00072
	(!A0 * !B0 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !B0 * YN)	0.00008	0.00008	0.00008
	(!A0 * !B0 * YN)	0.00014	0.00014	0.00015

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

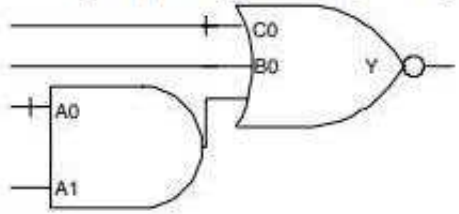
Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X4H7H	(A0 * !A1 * !B0 * YN)	0.00072	0.00073	0.00073
	(A0 * !A1 * !B0 * YN)	0.00003	0.00003	0.00003
	(A0 * !A1 * !B0 * YN)	-0.00008	-0.00008	-0.00008
	(A0 * !A1 * !B0 * YN)	-0.00013	-0.00013	-0.00013
	(!A0 * !B0 * YN)	0.00072	0.00073	0.00073
	(!A0 * !B0 * YN)	0.00003	0.00003	0.00003
	(!A0 * !B0 * YN)	-0.00008	-0.00008	-0.00008
	(!A0 * !B0 * YN)	-0.00014	-0.00014	-0.00014

AOI211X0P5H7H

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

Cell Description

The AOI211 cell provides the logical inverted OR of one AND group and two additional inputs.
The output (Y) is represented by the logic equation:



Truth Table

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

Footprint

Cell Name	Area
AOI211X0P5H7H	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	Y
AOI211X0P5H7H	0.00085	0.00090	0.00094	0.00092	0.00956

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI211X0P5H7H	0.00000	0.00895	0.01129

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI211X0P5H7H	A0->Y (FR)	0.11123	0.27866	0.73251
	A1->Y (FR)	0.10410	0.26987	0.72393
	B0->Y (FR)	0.09559	0.25697	0.72009
	C0->Y (FR)	0.10287	0.26952	0.74151

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI211X0P5H7H	A0->Y (RF)	0.04928	0.15591	0.47159
	A1->Y (RF)	0.04786	0.15295	0.48013
	B0->Y (RF)	0.02288	0.10108	0.36732
	C0->Y (RF)	0.02401	0.10389	0.37044

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI211X0P5H7H	A0	0.00151	0.00153	0.00155
	A0	-0.00012	-0.00012	-0.00012
	A0	0.00011	0.00011	0.00011
	A0	0.00004	0.00006	0.00008
	A1	0.00139	0.00143	0.00146
	A1	-0.00012	-0.00012	-0.00012
	A1	0.00007	0.00007	0.00007
	A1	0.00003	0.00007	0.00010
	B0	0.00101	0.00105	0.00110
	B0	-0.00002	-0.00002	0.00000
	B0	0.00011	0.00011	0.00011
	B0	-0.00005	-0.00002	0.00002
	C0	0.00119	0.00121	0.00124
	C0	-0.00007	-0.00006	-0.00006
	C0	0.00011	0.00011	0.00011
	C0	-0.00002	0.00001	0.00004

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI211X0P5H7H	A0	-0.00010	-0.00008	-0.00006
	A0	0.00012	0.00012	0.00012
	A0	-0.00011	-0.00011	-0.00011
	A0	0.00129	0.00132	0.00134
	A1	-0.00011	-0.00009	-0.00006
	A1	0.00012	0.00012	0.00012
	A1	-0.00007	-0.00007	-0.00007
	A1	0.00114	0.00117	0.00120
	B0	-0.00010	-0.00006	-0.00004
	B0	0.00000	0.00003	0.00028
	B0	-0.00007	-0.00007	-0.00006
	B0	0.00100	0.00103	0.00105
	C0	-0.00012	-0.00010	-0.00008
	C0	0.00006	0.00006	0.00008
	C0	-0.00007	-0.00007	-0.00007
	C0	0.00107	0.00110	0.00112

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X0P5H7H	(A1 * B0 * C0 * !Y)	-0.00010	-0.00009	-0.00007
	(A1 * B0 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * C0 * !Y)	0.00000	0.00000	0.00001
	(A1 * B0 * C0 * !Y)	0.00026	0.00026	0.00026
	(A1 * B0 * !C0 * !Y)	-0.00010	-0.00008	-0.00006
	(A1 * B0 * !C0 * !Y)	-0.00003	-0.00002	-0.00002
	(A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00001
	(A1 * B0 * !C0 * !Y)	0.00025	0.00026	0.00026
	(A1 * !B0 * C0 * !Y)	-0.00010	-0.00009	-0.00007
	(A1 * !B0 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * C0 * !Y)	0.00000	0.00000	0.00001
	(A1 * !B0 * C0 * !Y)	0.00026	0.00026	0.00026
	(!A1 * C0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * C0 * !Y)	0.00022	0.00022	0.00022
	(!A1 * B0 * !C0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !C0 * !Y)	0.00022	0.00022	0.00022
	(!A1 * !B0 * !C0 * Y)	-0.00017	-0.00017	-0.00017
	(!A1 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C0 * Y)	0.00020	0.00020	0.00020

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X0P5H7H	(A1 * B0 * C0 * !Y)	0.00010	0.00010	0.00010
	(A1 * B0 * C0 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * !Y)	-0.00026	-0.00026	-0.00026
	(A1 * B0 * !C0 * !Y)	0.00010	0.00010	0.00010
	(A1 * B0 * !C0 * !Y)	0.00002	0.00003	0.00003
	(A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * !Y)	-0.00026	-0.00025	-0.00025
	(A1 * !B0 * C0 * !Y)	0.00010	0.00010	0.00010
	(A1 * !B0 * C0 * !Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * C0 * !Y)	-0.00026	-0.00026	-0.00025
	(!A1 * C0 * !Y)	0.00015	0.00015	0.00015
	(!A1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * C0 * !Y)	-0.00022	-0.00021	-0.00020
	(!A1 * B0 * !C0 * !Y)	0.00015	0.00015	0.00015
	(!A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !C0 * !Y)	-0.00022	-0.00021	-0.00020
	(!A1 * !B0 * !C0 * Y)	0.00017	0.00018	0.00018
	(!A1 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * Y)	-0.00020	-0.00019	-0.00018

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X0P5H7H	(A0 * B0 * C0 * !Y)	-0.00011	-0.00009	-0.00007
	(A0 * B0 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * !Y)	0.00027	0.00028	0.00028
	(A0 * B0 * !C0 * !Y)	-0.00010	-0.00009	-0.00006
	(A0 * B0 * !C0 * !Y)	-0.00003	-0.00003	-0.00002
	(A0 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * !Y)	0.00027	0.00027	0.00028
	(A0 * !B0 * C0 * !Y)	-0.00011	-0.00009	-0.00007
	(A0 * !B0 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * C0 * !Y)	0.00027	0.00028	0.00028
	(!A0 * B0 * C0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A0 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * C0 * !Y)	0.00024	0.00024	0.00024
	(!A0 * B0 * !C0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A0 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * !C0 * !Y)	0.00024	0.00024	0.00024
	(!A0 * !B0 * C0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * !Y)	0.00024	0.00024	0.00024
	(!A0 * !B0 * !C0 * Y)	-0.00026	-0.00026	-0.00025
	(!A0 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * Y)	0.00002	0.00003	0.00003
	(!A0 * !B0 * !C0 * Y)	0.00007	0.00007	0.00007

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X0P5H7H	(A0 * B0 * C0 * !Y)	0.00010	0.00011	0.00011
	(A0 * B0 * C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * !Y)	-0.00027	-0.00027	-0.00027
	(A0 * B0 * !C0 * !Y)	0.00010	0.00010	0.00010
	(A0 * B0 * !C0 * !Y)	0.00002	0.00003	0.00003
	(A0 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !C0 * !Y)	-0.00027	-0.00027	-0.00027
	(A0 * !B0 * C0 * !Y)	0.00011	0.00011	0.00011
	(A0 * !B0 * C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * C0 * !Y)	-0.00027	-0.00027	-0.00027
	(!A0 * B0 * C0 * !Y)	0.00015	0.00015	0.00015
	(!A0 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * C0 * !Y)	-0.00024	-0.00023	-0.00022
	(!A0 * B0 * !C0 * !Y)	0.00015	0.00015	0.00015
	(!A0 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !C0 * !Y)	-0.00024	-0.00023	-0.00022
	(!A0 * !B0 * C0 * !Y)	0.00015	0.00015	0.00015
	(!A0 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * !Y)	-0.00024	-0.00023	-0.00022
	(!A0 * !B0 * !C0 * Y)	0.00026	0.00026	0.00026
	(!A0 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * !C0 * Y)	-0.00007	-0.00007	-0.00007

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X0P5H7H	(A1 * C0 * !Y)	-0.00000	0.00000	0.00000
	(A1 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * C0 * !Y)	0.00034	0.00035	0.00035
	(A0 * A1 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * !Y)	0.00035	0.00035	0.00035
	(!A1 * C0 * !Y)	-0.00000	0.00000	0.00000
	(!A1 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * C0 * !Y)	0.00034	0.00035	0.00035

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X0P5H7H	(A1 * C0 * !Y)	-0.00000	0.00000	0.00000
	(A1 * C0 * !Y)	0.00003	0.00003	0.00003
	(A1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * C0 * !Y)	-0.00035	-0.00035	-0.00034
	(A0 * A1 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !C0 * !Y)	-0.00035	-0.00035	-0.00035
	(!A1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * C0 * !Y)	0.00003	0.00003	0.00003
	(!A1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * C0 * !Y)	-0.00035	-0.00035	-0.00034

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X0P5H7H	(A0 * A1 * B0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B0 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !Y)	0.00028	0.00028	0.00028
	(A0 * A1 * !B0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !Y)	0.00027	0.00028	0.00028
	(!A1 * B0 * !Y)	-0.00013	-0.00012	-0.00010
	(!A1 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !Y)	0.00026	0.00026	0.00026
	(!A0 * A1 * B0 * !Y)	-0.00012	-0.00012	-0.00010
	(!A0 * A1 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * !Y)	0.00026	0.00026	0.00026

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

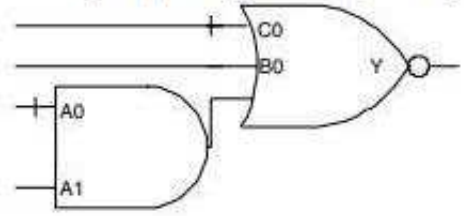
Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X0P5H7H	(A0 * A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * !Y)	-0.00028	-0.00028	-0.00028
	(A0 * A1 * !B0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B0 * !Y)	-0.00028	-0.00028	-0.00027
	(!A1 * B0 * !Y)	0.00012	0.00012	0.00013
	(!A1 * B0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !Y)	-0.00026	-0.00026	-0.00026
	(!A0 * A1 * B0 * !Y)	0.00012	0.00012	0.00013
	(!A0 * A1 * B0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * !Y)	-0.00026	-0.00026	-0.00026

AOI211X0P7H7H

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

Cell Description

The AOI211 cell provides the logical inverted OR of one AND group and two additional inputs.
The output (Y) is represented by the logic equation:



Truth Table

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

Footprint

Cell Name	Area
AOI211X0P7H7H	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	Y
AOI211X0P7H7H	0.00089	0.00094	0.00097	0.00096	0.01098

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI211X0P7H7H	0.00000	0.01020	0.01756

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI211X0P7H7H	A0->Y (FR)	0.10251	0.27178	0.73219
	A1->Y (FR)	0.09543	0.26315	0.72393
	B0->Y (FR)	0.08678	0.25034	0.71909
	C0->Y (FR)	0.09462	0.26349	0.74279

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI211X0P7H7H	A0->Y (RF)	0.04625	0.15520	0.48009
	A1->Y (RF)	0.04451	0.15075	0.48393
	B0->Y (RF)	0.02122	0.09996	0.37197
	C0->Y (RF)	0.02247	0.10300	0.37534

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI211X0P7H7H	A0	0.00160	0.00162	0.00164
	A0	-0.00014	-0.00014	-0.00012
	A0	0.00012	0.00013	0.00013
	A0	0.00002	0.00004	0.00006
	A1	0.00146	0.00150	0.00153
	A1	-0.00014	-0.00014	-0.00014
	A1	0.00008	0.00008	0.00008
	A1	0.00002	0.00006	0.00009
	B0	0.00105	0.00110	0.00114
	B0	-0.00003	-0.00002	-0.00001
	B0	0.00012	0.00013	0.00013
	B0	-0.00006	-0.00002	0.00002
	C0	0.00125	0.00128	0.00131
	C0	-0.00008	-0.00007	-0.00006
	C0	0.00012	0.00013	0.00013
	C0	-0.00003	0.00000	0.00003

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI211X0P7H7H	A0	-0.00011	-0.00009	-0.00007
	A0	0.00012	0.00014	0.00014
	A0	-0.00013	-0.00013	-0.00012
	A0	0.00138	0.00141	0.00143
	A1	-0.00012	-0.00010	-0.00007
	A1	0.00014	0.00014	0.00014
	A1	-0.00008	-0.00008	-0.00008
	A1	0.00120	0.00124	0.00127
	B0	-0.00011	-0.00007	-0.00004
	B0	0.00001	0.00003	0.00008
	B0	-0.00008	-0.00008	-0.00008
	B0	0.00104	0.00108	0.00111
	C0	-0.00013	-0.00010	-0.00009
	C0	0.00007	0.00007	0.00009
	C0	-0.00008	-0.00008	-0.00008
	C0	0.00114	0.00117	0.00119

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X0P7H7H	(A1 * B0 * C0 * !Y)	-0.00012	-0.00010	-0.00007
	(A1 * B0 * C0 * !Y)	-0.00003	-0.00003	-0.00002
	(A1 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !Y)	0.00026	0.00027	0.00027
	(A1 * B0 * !C0 * !Y)	-0.00011	-0.00009	-0.00007
	(A1 * B0 * !C0 * !Y)	-0.00003	-0.00003	-0.00002
	(A1 * B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !C0 * !Y)	0.00026	0.00026	0.00027
	(A1 * !B0 * C0 * !Y)	-0.00012	-0.00010	-0.00007
	(A1 * !B0 * C0 * !Y)	-0.00003	-0.00003	-0.00002
	(A1 * !B0 * C0 * !Y)	0.00000	0.00000	0.00001
	(A1 * !B0 * C0 * !Y)	0.00026	0.00027	0.00027
	(!A1 * C0 * !Y)	-0.00016	-0.00016	-0.00016
	(!A1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * C0 * !Y)	0.00001	0.00002	0.00002
	(!A1 * C0 * !Y)	0.00023	0.00023	0.00023
	(!A1 * B0 * !C0 * !Y)	-0.00016	-0.00016	-0.00016
	(!A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !C0 * !Y)	0.00001	0.00002	0.00002
	(!A1 * B0 * !C0 * !Y)	0.00023	0.00023	0.00023
	(!A1 * !B0 * !C0 * Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C0 * Y)	0.00021	0.00021	0.00021

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X0P7H7H	(A1 * B0 * C0 * !Y)	0.00011	0.00012	0.00012
	(A1 * B0 * C0 * !Y)	0.00002	0.00003	0.00003
	(A1 * B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * !Y)	-0.00027	-0.00026	-0.00026
	(A1 * B0 * !C0 * !Y)	0.00011	0.00011	0.00011
	(A1 * B0 * !C0 * !Y)	0.00002	0.00003	0.00003
	(A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * !Y)	-0.00026	-0.00026	-0.00026
	(A1 * !B0 * C0 * !Y)	0.00011	0.00012	0.00012
	(A1 * !B0 * C0 * !Y)	0.00002	0.00003	0.00003
	(A1 * !B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * C0 * !Y)	-0.00027	-0.00026	-0.00026
	(!A1 * C0 * !Y)	0.00016	0.00016	0.00016
	(!A1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * C0 * !Y)	-0.00023	-0.00022	-0.00021
	(!A1 * B0 * !C0 * !Y)	0.00016	0.00016	0.00016
	(!A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * B0 * !C0 * !Y)	-0.00023	-0.00022	-0.00021
	(!A1 * !B0 * !C0 * Y)	0.00019	0.00019	0.00020
	(!A1 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * Y)	-0.00021	-0.00020	-0.00019

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X0P7H7H	(A0 * B0 * C0 * !Y)	-0.00012	-0.00010	-0.00008
	(A0 * B0 * C0 * !Y)	-0.00003	-0.00003	-0.00002
	(A0 * B0 * C0 * !Y)	0.00000	0.00000	0.00001
	(A0 * B0 * C0 * !Y)	0.00028	0.00028	0.00028
	(A0 * B0 * !C0 * !Y)	-0.00011	-0.00010	-0.00007
	(A0 * B0 * !C0 * !Y)	-0.00003	-0.00003	-0.00002
	(A0 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * !Y)	0.00028	0.00028	0.00028
	(A0 * !B0 * C0 * !Y)	-0.00012	-0.00010	-0.00008
	(A0 * !B0 * C0 * !Y)	-0.00003	-0.00003	-0.00002
	(A0 * !B0 * C0 * !Y)	0.00000	0.00000	0.00001
	(A0 * !B0 * C0 * !Y)	0.00028	0.00028	0.00028
	(!A0 * B0 * C0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * B0 * C0 * !Y)	0.00024	0.00024	0.00024
	(!A0 * B0 * !C0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * B0 * !C0 * !Y)	0.00024	0.00024	0.00024
	(!A0 * !B0 * C0 * !Y)	-0.00017	-0.00017	-0.00016
	(!A0 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !B0 * C0 * !Y)	0.00024	0.00024	0.00024
	(!A0 * !B0 * !C0 * Y)	-0.00027	-0.00027	-0.00027
	(!A0 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !B0 * !C0 * Y)	0.00006	0.00007	0.00007

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X0P7H7H	(A0 * B0 * C0 * !Y)	0.00012	0.00012	0.00012
	(A0 * B0 * C0 * !Y)	0.00003	0.00003	0.00003
	(A0 * B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * !Y)	-0.00028	-0.00028	-0.00028
	(A0 * B0 * !C0 * !Y)	0.00011	0.00011	0.00011
	(A0 * B0 * !C0 * !Y)	0.00002	0.00003	0.00003
	(A0 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !C0 * !Y)	-0.00028	-0.00028	-0.00027
	(A0 * !B0 * C0 * !Y)	0.00012	0.00012	0.00012
	(A0 * !B0 * C0 * !Y)	0.00002	0.00003	0.00003
	(A0 * !B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * C0 * !Y)	-0.00028	-0.00028	-0.00028
	(!A0 * B0 * C0 * !Y)	0.00017	0.00017	0.00017
	(!A0 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * B0 * C0 * !Y)	-0.00024	-0.00024	-0.00023
	(!A0 * B0 * !C0 * !Y)	0.00017	0.00017	0.00017
	(!A0 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * B0 * !C0 * !Y)	-0.00024	-0.00023	-0.00023
	(!A0 * !B0 * C0 * !Y)	0.00016	0.00017	0.00017
	(!A0 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B0 * C0 * !Y)	-0.00024	-0.00023	-0.00022
	(!A0 * !B0 * !C0 * Y)	0.00027	0.00027	0.00027
	(!A0 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !B0 * !C0 * Y)	-0.00007	-0.00007	-0.00006

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X0P7H7H	(A1 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * C0 * !Y)	0.00000	0.00000	0.00001
	(A1 * C0 * !Y)	0.00035	0.00035	0.00036
	(A0 * A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !C0 * !Y)	0.00000	0.00000	0.00001
	(A0 * A1 * !C0 * !Y)	0.00035	0.00035	0.00035
	(!A1 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * C0 * !Y)	0.00035	0.00035	0.00035

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X0P7H7H	(A1 * C0 * !Y)	-0.00000	0.00000	0.00000
	(A1 * C0 * !Y)	0.00003	0.00003	0.00004
	(A1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * C0 * !Y)	-0.00035	-0.00035	-0.00035
	(A0 * A1 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !C0 * !Y)	-0.00035	-0.00035	-0.00035
	(!A1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * C0 * !Y)	0.00003	0.00003	0.00004
	(!A1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * C0 * !Y)	-0.00035	-0.00035	-0.00035

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X0P7H7H	(A0 * A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * A1 * B0 * !Y)	0.00000	0.00000	0.00001
	(A0 * A1 * B0 * !Y)	0.00029	0.00029	0.00029
	(A0 * A1 * !B0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !Y)	0.00028	0.00028	0.00028
	(!A1 * B0 * !Y)	-0.00013	-0.00012	-0.00011
	(!A1 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !Y)	0.00027	0.00027	0.00027
	(!A0 * A1 * B0 * !Y)	-0.00014	-0.00012	-0.00011
	(!A0 * A1 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * !Y)	0.00027	0.00027	0.00027

Passive power(pJ) for C0 falling (conditional):

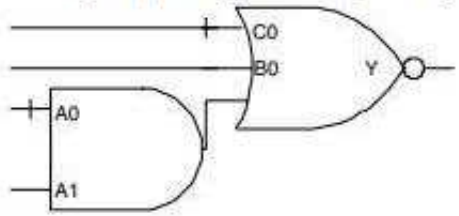
Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X0P7H7H	(A0 * A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !Y)	0.00006	0.00006	0.00006
	(A0 * A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * !Y)	-0.00029	-0.00028	-0.00028
	(A0 * A1 * !B0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B0 * !Y)	-0.00028	-0.00028	-0.00028
	(!A1 * B0 * !Y)	0.00013	0.00013	0.00013
	(!A1 * B0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !Y)	-0.00027	-0.00027	-0.00027
	(!A0 * A1 * B0 * !Y)	0.00013	0.00013	0.00014
	(!A0 * A1 * B0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * !Y)	-0.00027	-0.00027	-0.00027

AOI211X1H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI211 cell provides the logical inverted OR of one AND group and two additional inputs.
The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	Y
0	x	0	0	1
0	x	x	1	0
x	x	1	x	0
1	0	0	0	1
1	0	x	1	0
1	1	x	x	0

Footprint

Cell Name	Area
AOI211X1H7H	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	Y
AOI211X1H7H	0.00094	0.00099	0.00103	0.00098	0.01327

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI211X1H7H	0.00000	0.01292	0.03097

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI211X1H7H	A0->Y (FR)	0.09229	0.26389	0.73244
	A1->Y (FR)	0.08550	0.25570	0.72518
	B0->Y (FR)	0.07684	0.24283	0.72076
	C0->Y (FR)	0.08414	0.25574	0.74409

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI211X1H7H	A0->Y (RF)	0.04332	0.15599	0.49444
	A1->Y (RF)	0.04142	0.15053	0.49392
	B0->Y (RF)	0.01977	0.10001	0.38209
	C0->Y (RF)	0.02090	0.10320	0.38521

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI211X1H7H	A0	0.00175	0.00177	0.00179
	A0	-0.00017	-0.00017	-0.00017
	A0	0.00015	0.00015	0.00015
	A0	0.00000	0.00003	0.00005
	A1	0.00159	0.00164	0.00167
	A1	-0.00017	-0.00017	-0.00017
	A1	0.00010	0.00010	0.00010
	A1	0.00000	0.00005	0.00008
	B0	0.00113	0.00118	0.00123
	B0	-0.00003	-0.00003	0.00000
	B0	0.00015	0.00015	0.00015
	B0	-0.00007	-0.00004	0.00001
	C0	0.00136	0.00139	0.00142
	C0	-0.00011	-0.00009	-0.00009
	C0	0.00015	0.00015	0.00015
	C0	-0.00004	-0.00001	0.00002

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI211X1H7H	A0	-0.00013	-0.00010	-0.00008
	A0	0.00017	0.00017	0.00017
	A0	-0.00015	-0.00015	-0.00015
	A0	0.00151	0.00155	0.00157
	A1	-0.00014	-0.00011	-0.00008
	A1	0.00017	0.00017	0.00017
	A1	-0.00010	-0.00010	-0.00010
	A1	0.00131	0.00136	0.00139
	B0	-0.00013	-0.00009	-0.00003
	B0	0.00002	0.00003	0.00005
	B0	-0.00010	-0.00010	-0.00009
	B0	0.00112	0.00116	0.00119
	C0	-0.00016	-0.00012	-0.00010
	C0	0.00009	0.00009	0.00016
	C0	-0.00010	-0.00010	-0.00010
	C0	0.00123	0.00127	0.00130

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X1H7H	(A1 * B0 * C0 * !Y)	-0.00013	-0.00012	-0.00009
	(A1 * B0 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * C0 * !Y)	0.00028	0.00028	0.00028
	(A1 * B0 * !C0 * !Y)	-0.00013	-0.00011	-0.00008
	(A1 * B0 * !C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !C0 * !Y)	0.00028	0.00028	0.00028
	(A1 * !B0 * C0 * !Y)	-0.00013	-0.00012	-0.00009
	(A1 * !B0 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * C0 * !Y)	0.00028	0.00028	0.00028
	(!A1 * C0 * !Y)	-0.00018	-0.00018	-0.00018
	(!A1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * C0 * !Y)	0.00024	0.00024	0.00024
	(!A1 * B0 * !C0 * !Y)	-0.00019	-0.00018	-0.00018
	(!A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !C0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * !C0 * !Y)	0.00024	0.00024	0.00024
	(!A1 * !B0 * !C0 * Y)	-0.00021	-0.00021	-0.00021
	(!A1 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !C0 * Y)	0.00022	0.00022	0.00022

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X1H7H	(A1 * B0 * C0 * !Y)	0.00013	0.00013	0.00013
	(A1 * B0 * C0 * !Y)	0.00003	0.00003	0.00003
	(A1 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * C0 * !Y)	-0.00028	-0.00028	-0.00028
	(A1 * B0 * !C0 * !Y)	0.00013	0.00013	0.00013
	(A1 * B0 * !C0 * !Y)	0.00003	0.00003	0.00003
	(A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !C0 * !Y)	-0.00028	-0.00028	-0.00027
	(A1 * !B0 * C0 * !Y)	0.00013	0.00013	0.00013
	(A1 * !B0 * C0 * !Y)	0.00003	0.00003	0.00003
	(A1 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * C0 * !Y)	-0.00028	-0.00028	-0.00028
	(!A1 * C0 * !Y)	0.00018	0.00018	0.00019
	(!A1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * C0 * !Y)	-0.00024	-0.00023	-0.00022
	(!A1 * B0 * !C0 * !Y)	0.00018	0.00018	0.00019
	(!A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * !C0 * !Y)	-0.00024	-0.00023	-0.00022
	(!A1 * !B0 * !C0 * Y)	0.00021	0.00021	0.00022
	(!A1 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !C0 * Y)	-0.00022	-0.00021	-0.00019

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X1H7H	(A0 * B0 * C0 * !Y)	-0.00014	-0.00012	-0.00009
	(A0 * B0 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * B0 * C0 * !Y)	0.00029	0.00029	0.00030
	(A0 * B0 * !C0 * !Y)	-0.00013	-0.00011	-0.00009
	(A0 * B0 * !C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * B0 * !C0 * !Y)	0.00029	0.00029	0.00029
	(A0 * !B0 * C0 * !Y)	-0.00014	-0.00012	-0.00009
	(A0 * !B0 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * C0 * !Y)	0.00029	0.00029	0.00030
	(!A0 * B0 * C0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A0 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * B0 * C0 * !Y)	0.00025	0.00025	0.00025
	(!A0 * B0 * !C0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A0 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * B0 * !C0 * !Y)	0.00025	0.00025	0.00025
	(!A0 * !B0 * C0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A0 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * C0 * !Y)	0.00025	0.00025	0.00025
	(!A0 * !B0 * !C0 * Y)	-0.00030	-0.00030	-0.00030
	(!A0 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !B0 * !C0 * Y)	0.00006	0.00006	0.00007

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X1H7H	(A0 * B0 * C0 * !Y)	0.00013	0.00014	0.00014
	(A0 * B0 * C0 * !Y)	0.00003	0.00003	0.00003
	(A0 * B0 * C0 * !Y)	-0.00001	-0.00000	-0.00000
	(A0 * B0 * C0 * !Y)	-0.00029	-0.00029	-0.00029
	(A0 * B0 * !C0 * !Y)	0.00013	0.00013	0.00013
	(A0 * B0 * !C0 * !Y)	0.00003	0.00003	0.00003
	(A0 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * !C0 * !Y)	-0.00029	-0.00029	-0.00028
	(A0 * !B0 * C0 * !Y)	0.00013	0.00014	0.00014
	(A0 * !B0 * C0 * !Y)	0.00003	0.00003	0.00003
	(A0 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * C0 * !Y)	-0.00029	-0.00029	-0.00029
	(!A0 * B0 * C0 * !Y)	0.00019	0.00019	0.00019
	(!A0 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * B0 * C0 * !Y)	-0.00025	-0.00024	-0.00023
	(!A0 * B0 * !C0 * !Y)	0.00019	0.00019	0.00019
	(!A0 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * B0 * !C0 * !Y)	-0.00025	-0.00024	-0.00023
	(!A0 * !B0 * C0 * !Y)	0.00019	0.00019	0.00019
	(!A0 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * C0 * !Y)	-0.00025	-0.00024	-0.00023
	(!A0 * !B0 * !C0 * Y)	0.00030	0.00030	0.00030
	(!A0 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !B0 * !C0 * Y)	-0.00007	-0.00006	-0.00006

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X1H7H	(A1 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * C0 * !Y)	-0.00004	-0.00004	-0.00004
	(A1 * C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * C0 * !Y)	0.00037	0.00038	0.00038
	(A0 * A1 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !C0 * !Y)	0.00037	0.00037	0.00038
	(!A1 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * C0 * !Y)	-0.00004	-0.00004	-0.00004
	(!A1 * C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * C0 * !Y)	0.00037	0.00038	0.00038

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X1H7H	(A1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * C0 * !Y)	0.00004	0.00004	0.00004
	(A1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * C0 * !Y)	-0.00038	-0.00037	-0.00037
	(A0 * A1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !C0 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !C0 * !Y)	-0.00038	-0.00037	-0.00037
	(!A1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * C0 * !Y)	0.00004	0.00004	0.00004
	(!A1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * C0 * !Y)	-0.00037	-0.00037	-0.00037

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X1H7H	(A0 * A1 * B0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B0 * !Y)	-0.00007	-0.00007	-0.00007
	(A0 * A1 * B0 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B0 * !Y)	0.00029	0.00029	0.00029
	(A0 * A1 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * A1 * !B0 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B0 * !Y)	0.00029	0.00029	0.00029
	(!A1 * B0 * !Y)	-0.00016	-0.00014	-0.00012
	(!A1 * B0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1 * B0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * !Y)	0.00027	0.00027	0.00028
	(!A0 * A1 * B0 * !Y)	-0.00016	-0.00014	-0.00012
	(!A0 * A1 * B0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * B0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * B0 * !Y)	0.00027	0.00027	0.00028

Passive power(pJ) for C0 falling (conditional):

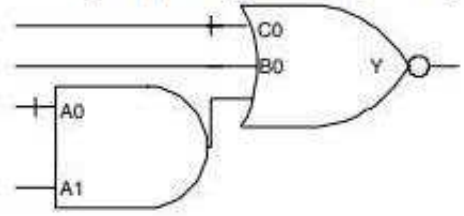
Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X1H7H	(A0 * A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !Y)	0.00007	0.00007	0.00007
	(A0 * A1 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * B0 * !Y)	-0.00029	-0.00029	-0.00029
	(A0 * A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !Y)	0.00006	0.00006	0.00006
	(A0 * A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B0 * !Y)	-0.00029	-0.00029	-0.00029
	(!A1 * B0 * !Y)	0.00015	0.00015	0.00016
	(!A1 * B0 * !Y)	0.00003	0.00003	0.00003
	(!A1 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * !Y)	-0.00027	-0.00027	-0.00027
	(!A0 * A1 * B0 * !Y)	0.00015	0.00015	0.00016
	(!A0 * A1 * B0 * !Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * B0 * !Y)	-0.00027	-0.00027	-0.00027

AOI211X1P4H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI211 cell provides the logical inverted OR of one AND group and two additional inputs.
The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	Y
0	x	0	0	1
0	x	x	1	0
x	x	1	x	0
1	0	0	0	1
1	0	x	1	0
1	1	x	x	0

Footprint

Cell Name	Area
AOI211X1P4H7H	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	Y
AOI211X1P4H7H	0.00101	0.00107	0.00113	0.00107	0.01514

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI211X1P4H7H	0.00000	0.01634	0.04748

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI211X1P4H7H	A0->Y (FR)	0.08707	0.25992	0.73310
	A1->Y (FR)	0.08042	0.25190	0.72592
	B0->Y (FR)	0.07248	0.23983	0.72337
	C0->Y (FR)	0.07980	0.25277	0.74578

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI211X1P4H7H	A0->Y (RF)	0.04129	0.15503	0.49853
	A1->Y (RF)	0.03920	0.14905	0.49636
	B0->Y (RF)	0.01897	0.09965	0.38597
	C0->Y (RF)	0.02010	0.10289	0.38892

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI211X1P4H7H	A0	0.00190	0.00193	0.00195
	A0	-0.00020	-0.00020	-0.00020
	A0	0.00017	0.00017	0.00017
	A0	-0.00003	-0.00000	0.00002
	A1	0.00173	0.00178	0.00181
	A1	-0.00020	-0.00020	-0.00020
	A1	0.00011	0.00011	0.00011
	A1	-0.00003	0.00001	0.00005
	B0	0.00123	0.00128	0.00134
	B0	-0.00004	-0.00003	0.00000
	B0	0.00017	0.00017	0.00017
	B0	-0.00010	-0.00006	-0.00001
	C0	0.00149	0.00152	0.00156
	C0	-0.00013	-0.00011	-0.00006
	C0	0.00017	0.00017	0.00017
	C0	-0.00006	-0.00002	0.00001

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI211X1P4H7H	A0	-0.00015	-0.00012	-0.00009
	A0	0.00020	0.00020	0.00020
	A0	-0.00017	-0.00017	-0.00017
	A0	0.00167	0.00171	0.00174
	A1	-0.00016	-0.00013	-0.00010
	A1	0.00020	0.00020	0.00020
	A1	-0.00011	-0.00011	-0.00011
	A1	0.00145	0.00149	0.00153
	B0	-0.00015	-0.00010	-0.00004
	B0	0.00003	0.00004	0.00004
	B0	-0.00011	-0.00011	-0.00011
	B0	0.00123	0.00127	0.00131
	C0	-0.00018	-0.00014	-0.00008
	C0	0.00006	0.00011	0.00013
	C0	-0.00011	-0.00011	-0.00009
	C0	0.00137	0.00140	0.00142

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X1P4H7H	(A1 * B0 * C0 * !Y)	-0.00015	-0.00013	-0.00010
	(A1 * B0 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * C0 * !Y)	0.00029	0.00029	0.00029
	(A1 * B0 * !C0 * !Y)	-0.00015	-0.00013	-0.00010
	(A1 * B0 * !C0 * !Y)	-0.00004	-0.00004	-0.00003
	(A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * !Y)	0.00029	0.00029	0.00029
	(A1 * !B0 * C0 * !Y)	-0.00015	-0.00013	-0.00010
	(A1 * !B0 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * C0 * !Y)	0.00029	0.00029	0.00029
	(!A1 * C0 * !Y)	-0.00021	-0.00021	-0.00021
	(!A1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * C0 * !Y)	0.00025	0.00025	0.00025
	(!A1 * B0 * !C0 * !Y)	-0.00021	-0.00021	-0.00020
	(!A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !C0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * !C0 * !Y)	0.00025	0.00025	0.00025
	(!A1 * !B0 * !C0 * Y)	-0.00023	-0.00023	-0.00023
	(!A1 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !C0 * Y)	0.00023	0.00023	0.00023

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X1P4H7H	(A1 * B0 * C0 * !Y)	0.00015	0.00015	0.00015
	(A1 * B0 * C0 * !Y)	0.00003	0.00003	0.00003
	(A1 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * C0 * !Y)	-0.00029	-0.00029	-0.00029
	(A1 * B0 * !C0 * !Y)	0.00014	0.00015	0.00015
	(A1 * B0 * !C0 * !Y)	0.00004	0.00004	0.00004
	(A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * !Y)	-0.00029	-0.00029	-0.00028
	(A1 * !B0 * C0 * !Y)	0.00015	0.00015	0.00015
	(A1 * !B0 * C0 * !Y)	0.00003	0.00003	0.00003
	(A1 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * C0 * !Y)	-0.00029	-0.00029	-0.00029
	(!A1 * C0 * !Y)	0.00021	0.00021	0.00021
	(!A1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * C0 * !Y)	-0.00025	-0.00024	-0.00023
	(!A1 * B0 * !C0 * !Y)	0.00020	0.00021	0.00021
	(!A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * !C0 * !Y)	-0.00025	-0.00024	-0.00023
	(!A1 * !B0 * !C0 * Y)	0.00023	0.00023	0.00024
	(!A1 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !C0 * Y)	-0.00023	-0.00022	-0.00020

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X1P4H7H	(A0 * B0 * C0 * !Y)	-0.00015	-0.00013	-0.00010
	(A0 * B0 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * B0 * C0 * !Y)	0.00030	0.00030	0.00031
	(A0 * B0 * !C0 * !Y)	-0.00015	-0.00013	-0.00010
	(A0 * B0 * !C0 * !Y)	-0.00004	-0.00004	-0.00003
	(A0 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * !Y)	0.00030	0.00030	0.00030
	(A0 * !B0 * C0 * !Y)	-0.00015	-0.00013	-0.00010
	(A0 * !B0 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * C0 * !Y)	0.00030	0.00030	0.00031
	(!A0 * B0 * C0 * !Y)	-0.00021	-0.00021	-0.00021
	(!A0 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * B0 * C0 * !Y)	0.00026	0.00026	0.00026
	(!A0 * B0 * !C0 * !Y)	-0.00021	-0.00021	-0.00021
	(!A0 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * B0 * !C0 * !Y)	0.00026	0.00026	0.00026
	(!A0 * !B0 * C0 * !Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * C0 * !Y)	0.00026	0.00026	0.00026
	(!A0 * !B0 * !C0 * Y)	-0.00033	-0.00033	-0.00032
	(!A0 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !B0 * !C0 * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X1P4H7H	(A0 * B0 * C0 * !Y)	0.00015	0.00015	0.00015
	(A0 * B0 * C0 * !Y)	0.00003	0.00003	0.00003
	(A0 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * C0 * !Y)	-0.00030	-0.00030	-0.00030
	(A0 * B0 * !C0 * !Y)	0.00015	0.00015	0.00015
	(A0 * B0 * !C0 * !Y)	0.00003	0.00004	0.00004
	(A0 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * !Y)	-0.00030	-0.00030	-0.00030
	(A0 * !B0 * C0 * !Y)	0.00015	0.00015	0.00015
	(A0 * !B0 * C0 * !Y)	0.00003	0.00003	0.00003
	(A0 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * C0 * !Y)	-0.00030	-0.00030	-0.00030
	(!A0 * B0 * C0 * !Y)	0.00021	0.00021	0.00021
	(!A0 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * B0 * C0 * !Y)	-0.00026	-0.00025	-0.00024
	(!A0 * B0 * !C0 * !Y)	0.00021	0.00021	0.00021
	(!A0 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * B0 * !C0 * !Y)	-0.00026	-0.00025	-0.00024
	(!A0 * !B0 * C0 * !Y)	0.00021	0.00021	0.00021
	(!A0 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * C0 * !Y)	-0.00026	-0.00025	-0.00024
	(!A0 * !B0 * !C0 * Y)	0.00033	0.00033	0.00033
	(!A0 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !B0 * !C0 * Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X1P4H7H	(A1 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * C0 * !Y)	-0.00005	-0.00005	-0.00005
	(A1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * C0 * !Y)	0.00041	0.00041	0.00041
	(A0 * A1 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !C0 * !Y)	0.00040	0.00041	0.00041
	(!A1 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * C0 * !Y)	-0.00005	-0.00005	-0.00005
	(!A1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * C0 * !Y)	0.00041	0.00041	0.00041

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X1P4H7H	(A1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * C0 * !Y)	0.00005	0.00005	0.00005
	(A1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * C0 * !Y)	-0.00041	-0.00041	-0.00040
	(A0 * A1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !C0 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !C0 * !Y)	-0.00041	-0.00041	-0.00040
	(!A1 * C0 * !Y)	-0.00000	0.00000	0.00000
	(!A1 * C0 * !Y)	0.00005	0.00005	0.00005
	(!A1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * C0 * !Y)	-0.00041	-0.00041	-0.00040

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X1P4H7H	(A0 * A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * !Y)	-0.00009	-0.00009	-0.00009
	(A0 * A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * !Y)	0.00030	0.00030	0.00030
	(A0 * A1 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * !Y)	-0.00007	-0.00007	-0.00007
	(A0 * A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * !Y)	0.00030	0.00030	0.00030
	(!A1 * B0 * !Y)	-0.00018	-0.00017	-0.00014
	(!A1 * B0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !Y)	0.00028	0.00029	0.00029
	(!A0 * A1 * B0 * !Y)	-0.00018	-0.00017	-0.00014
	(!A0 * A1 * B0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * !Y)	0.00028	0.00028	0.00029

Passive power(pJ) for C0 falling (conditional):

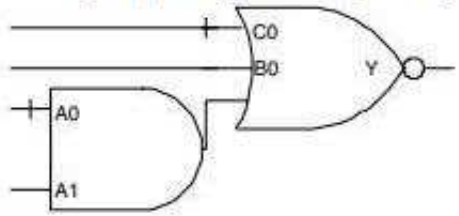
Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X1P4H7H	(A0 * A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !Y)	0.00009	0.00009	0.00009
	(A0 * A1 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * B0 * !Y)	-0.00030	-0.00030	-0.00030
	(A0 * A1 * !B0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !Y)	0.00007	0.00007	0.00007
	(A0 * A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * !Y)	-0.00030	-0.00030	-0.00030
	(!A1 * B0 * !Y)	0.00018	0.00018	0.00018
	(!A1 * B0 * !Y)	0.00003	0.00003	0.00003
	(!A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !Y)	-0.00028	-0.00028	-0.00028
	(!A0 * A1 * B0 * !Y)	0.00018	0.00018	0.00018
	(!A0 * A1 * B0 * !Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * !Y)	-0.00028	-0.00028	-0.00028

AOI211X2H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI211 cell provides the logical inverted OR of one AND group and two additional inputs.
The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	Y
0	x	0	0	1
0	x	x	1	0
x	x	1	x	0
1	0	0	0	1
1	0	x	1	0
1	1	x	x	0

Footprint

Cell Name	Area
AOI211X2H7H	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	Y
AOI211X2H7H	0.00110	0.00118	0.00123	0.00118	0.01754

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI211X2H7H	0.00000	0.02245	0.07640

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI211X2H7H	A0->Y (FR)	0.08237	0.25695	0.73469
	A1->Y (FR)	0.07546	0.24875	0.72819
	B0->Y (FR)	0.06699	0.23602	0.72543
	C0->Y (FR)	0.07533	0.25012	0.74934

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI211X2H7H	A0->Y (RF)	0.03810	0.15126	0.49502
	A1->Y (RF)	0.03593	0.14467	0.49071
	B0->Y (RF)	0.01746	0.09716	0.38413
	C0->Y (RF)	0.01873	0.10078	0.38727

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI211X2H7H	A0	0.00211	0.00214	0.00216
	A0	-0.00024	-0.00024	-0.00024
	A0	0.00021	0.00021	0.00021
	A0	-0.00007	-0.00004	-0.00001
	A1	0.00192	0.00196	0.00201
	A1	-0.00024	-0.00024	-0.00024
	A1	0.00013	0.00014	0.00014
	A1	-0.00007	-0.00002	0.00002
	B0	0.00134	0.00139	0.00145
	B0	-0.00004	-0.00004	-0.00004
	B0	0.00021	0.00021	0.00021
	B0	-0.00013	-0.00009	-0.00003
	C0	0.00165	0.00168	0.00172
	C0	-0.00013	-0.00013	-0.00009
	C0	0.00021	0.00021	0.00021
	C0	-0.00009	-0.00006	-0.00002

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI211X2H7H	A0	-0.00017	-0.00014	-0.00011
	A0	0.00024	0.00024	0.00024
	A0	-0.00021	-0.00021	-0.00021
	A0	0.00188	0.00192	0.00195
	A1	-0.00019	-0.00015	-0.00011
	A1	0.00024	0.00024	0.00024
	A1	-0.00014	-0.00014	-0.00013
	A1	0.00161	0.00167	0.00171
	B0	-0.00017	-0.00011	-0.00007
	B0	0.00004	0.00004	0.00005
	B0	-0.00014	-0.00013	-0.00013
	B0	0.00135	0.00140	0.00144
	C0	-0.00019	-0.00015	-0.00011
	C0	0.00012	0.00013	0.00018
	C0	-0.00014	-0.00014	-0.00013
	C0	0.00154	0.00157	0.00160

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X2H7H	(A1 * B0 * C0 * !Y)	-0.00018	-0.00015	-0.00012
	(A1 * B0 * C0 * !Y)	-0.00004	-0.00004	-0.00004
	(A1 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * C0 * !Y)	0.00031	0.00031	0.00031
	(A1 * B0 * !C0 * !Y)	-0.00017	-0.00015	-0.00011
	(A1 * B0 * !C0 * !Y)	-0.00004	-0.00004	-0.00004
	(A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * !Y)	0.00031	0.00031	0.00031
	(A1 * !B0 * C0 * !Y)	-0.00017	-0.00015	-0.00012
	(A1 * !B0 * C0 * !Y)	-0.00004	-0.00004	-0.00004
	(A1 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * C0 * !Y)	0.00031	0.00031	0.00032
	(!A1 * C0 * !Y)	-0.00024	-0.00024	-0.00024
	(!A1 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * C0 * !Y)	0.00027	0.00027	0.00027
	(!A1 * B0 * !C0 * !Y)	-0.00024	-0.00024	-0.00024
	(!A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !C0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * !C0 * !Y)	0.00026	0.00027	0.00027
	(!A1 * !B0 * !C0 * Y)	-0.00026	-0.00026	-0.00026
	(!A1 * !B0 * !C0 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !C0 * Y)	0.00025	0.00025	0.00026

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X2H7H	(A1 * B0 * C0 * !Y)	0.00017	0.00017	0.00018
	(A1 * B0 * C0 * !Y)	0.00004	0.00004	0.00004
	(A1 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * C0 * !Y)	-0.00031	-0.00031	-0.00031
	(A1 * B0 * !C0 * !Y)	0.00017	0.00017	0.00017
	(A1 * B0 * !C0 * !Y)	0.00004	0.00004	0.00004
	(A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * !Y)	-0.00031	-0.00031	-0.00031
	(A1 * !B0 * C0 * !Y)	0.00017	0.00017	0.00017
	(A1 * !B0 * C0 * !Y)	0.00004	0.00004	0.00004
	(A1 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * C0 * !Y)	-0.00031	-0.00031	-0.00031
	(!A1 * C0 * !Y)	0.00024	0.00024	0.00024
	(!A1 * C0 * !Y)	0.00001	0.00002	0.00002
	(!A1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * C0 * !Y)	-0.00027	-0.00026	-0.00024
	(!A1 * B0 * !C0 * !Y)	0.00024	0.00024	0.00024
	(!A1 * B0 * !C0 * !Y)	0.00001	0.00002	0.00002
	(!A1 * B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * !C0 * !Y)	-0.00027	-0.00026	-0.00024
	(!A1 * !B0 * !C0 * Y)	0.00026	0.00026	0.00027
	(!A1 * !B0 * !C0 * Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !C0 * Y)	-0.00025	-0.00024	-0.00022

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X2H7H	(A0 * B0 * C0 * !Y)	-0.00018	-0.00016	-0.00012
	(A0 * B0 * C0 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * C0 * !Y)	0.00032	0.00033	0.00033
	(A0 * B0 * !C0 * !Y)	-0.00017	-0.00015	-0.00012
	(A0 * B0 * !C0 * !Y)	-0.00005	-0.00004	-0.00004
	(A0 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * !Y)	0.00032	0.00032	0.00033
	(A0 * !B0 * C0 * !Y)	-0.00018	-0.00016	-0.00012
	(A0 * !B0 * C0 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * C0 * !Y)	0.00032	0.00033	0.00033
	(!A0 * B0 * C0 * !Y)	-0.00025	-0.00025	-0.00025
	(!A0 * B0 * C0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * B0 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * B0 * C0 * !Y)	0.00028	0.00028	0.00028
	(!A0 * B0 * !C0 * !Y)	-0.00025	-0.00025	-0.00025
	(!A0 * B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * B0 * !C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * B0 * !C0 * !Y)	0.00028	0.00028	0.00028
	(!A0 * !B0 * C0 * !Y)	-0.00025	-0.00025	-0.00025
	(!A0 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * C0 * !Y)	0.00028	0.00028	0.00028
	(!A0 * !B0 * !C0 * Y)	-0.00038	-0.00037	-0.00037
	(!A0 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !B0 * !C0 * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X2H7H	(A0 * B0 * C0 * !Y)	0.00018	0.00018	0.00018
	(A0 * B0 * C0 * !Y)	0.00004	0.00004	0.00004
	(A0 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * C0 * !Y)	-0.00033	-0.00032	-0.00032
	(A0 * B0 * !C0 * !Y)	0.00017	0.00017	0.00017
	(A0 * B0 * !C0 * !Y)	0.00004	0.00004	0.00005
	(A0 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * !Y)	-0.00032	-0.00032	-0.00032
	(A0 * !B0 * C0 * !Y)	0.00018	0.00018	0.00018
	(A0 * !B0 * C0 * !Y)	0.00004	0.00004	0.00004
	(A0 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * C0 * !Y)	-0.00033	-0.00032	-0.00032
	(!A0 * B0 * C0 * !Y)	0.00025	0.00025	0.00025
	(!A0 * B0 * C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * B0 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * B0 * C0 * !Y)	-0.00028	-0.00027	-0.00025
	(!A0 * B0 * !C0 * !Y)	0.00025	0.00025	0.00025
	(!A0 * B0 * !C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * B0 * !C0 * !Y)	-0.00028	-0.00027	-0.00025
	(!A0 * !B0 * C0 * !Y)	0.00025	0.00025	0.00025
	(!A0 * !B0 * C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !B0 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * C0 * !Y)	-0.00028	-0.00027	-0.00025
	(!A0 * !B0 * !C0 * Y)	0.00037	0.00037	0.00038
	(!A0 * !B0 * !C0 * Y)	0.00001	0.00002	0.00002
	(!A0 * !B0 * !C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !B0 * !C0 * Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X2H7H	(A1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * C0 * !Y)	-0.00005	-0.00005	-0.00005
	(A1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * C0 * !Y)	0.00043	0.00043	0.00043
	(A0 * A1 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !C0 * !Y)	0.00043	0.00043	0.00043
	(!A1 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * C0 * !Y)	-0.00005	-0.00005	-0.00005
	(!A1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * C0 * !Y)	0.00043	0.00043	0.00043

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X2H7H	(A1 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * C0 * !Y)	0.00006	0.00006	0.00006
	(A1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * C0 * !Y)	-0.00043	-0.00043	-0.00043
	(A0 * A1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !C0 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !C0 * !Y)	-0.00043	-0.00043	-0.00043
	(!A1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * C0 * !Y)	0.00005	0.00006	0.00006
	(!A1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * C0 * !Y)	-0.00043	-0.00043	-0.00043

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X2H7H	(A0 * A1 * B0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !Y)	-0.00010	-0.00010	-0.00010
	(A0 * A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * !Y)	0.00033	0.00033	0.00033
	(A0 * A1 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * !Y)	-0.00008	-0.00008	-0.00008
	(A0 * A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * !Y)	0.00032	0.00032	0.00033
	(!A1 * B0 * !Y)	-0.00020	-0.00018	-0.00015
	(!A1 * B0 * !Y)	-0.00004	-0.00003	-0.00003
	(!A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !Y)	0.00031	0.00031	0.00032
	(!A0 * A1 * B0 * !Y)	-0.00020	-0.00018	-0.00015
	(!A0 * A1 * B0 * !Y)	-0.00004	-0.00003	-0.00003
	(!A0 * A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * !Y)	0.00031	0.00031	0.00032

Passive power(pJ) for C0 falling (conditional):

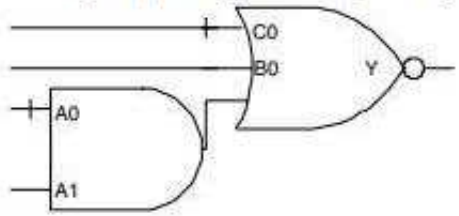
Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X2H7H	(A0 * A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !Y)	0.00010	0.00010	0.00010
	(A0 * A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B0 * !Y)	-0.00033	-0.00032	-0.00032
	(A0 * A1 * !B0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !Y)	0.00008	0.00008	0.00008
	(A0 * A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * !Y)	-0.00033	-0.00032	-0.00032
	(!A1 * B0 * !Y)	0.00020	0.00020	0.00020
	(!A1 * B0 * !Y)	0.00003	0.00003	0.00004
	(!A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !Y)	-0.00031	-0.00031	-0.00031
	(!A0 * A1 * B0 * !Y)	0.00020	0.00020	0.00020
	(!A0 * A1 * B0 * !Y)	0.00003	0.00003	0.00004
	(!A0 * A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * !Y)	-0.00031	-0.00031	-0.00031

AOI211X3H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI211 cell provides the logical inverted OR of one AND group and two additional inputs.
The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	Y
0	x	0	0	1
0	x	x	1	0
x	x	1	x	0
1	0	0	0	1
1	0	x	1	0
1	1	x	x	0

Footprint

Cell Name	Area
AOI211X3H7H	3.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	Y
AOI211X3H7H	0.00201	0.00188	0.00193	0.00202	0.02808

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI211X3H7H	0.00000	0.02812	0.07548

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI211X3H7H	A0->Y (FR)	0.07747	0.25198	0.73216
	A1->Y (FR)	0.06889	0.24163	0.72208
	B0->Y (FR)	0.06049	0.22928	0.72004
	C0->Y (FR)	0.07128	0.24539	0.74623

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI211X3H7H	A0->Y (RF)	0.03631	0.14908	0.49332
	A1->Y (RF)	0.03298	0.14175	0.49053
	B0->Y (RF)	0.01606	0.09428	0.38108
	C0->Y (RF)	0.01787	0.09859	0.38528

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI211X3H7H	A0	0.00336	0.00341	0.00345
	A0	-0.00037	-0.00036	-0.00036
	A0	0.00031	0.00032	0.00032
	A0	-0.00025	-0.00020	-0.00016
	A1	0.00297	0.00304	0.00311
	A1	-0.00037	-0.00036	-0.00036
	A1	0.00020	0.00021	0.00021
	A1	-0.00017	-0.00010	-0.00002
	B0	0.00204	0.00214	0.00223
	B0	-0.00007	-0.00006	-0.00006
	B0	0.00031	0.00032	0.00032
	B0	-0.00034	-0.00027	-0.00019
	C0	0.00258	0.00264	0.00272
	C0	-0.00023	-0.00020	-0.00016
	C0	0.00031	0.00032	0.00032
	C0	-0.00030	-0.00023	-0.00016

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI211X3H7H	A0	-0.00028	-0.00022	-0.00018
	A0	0.00036	0.00036	0.00037
	A0	-0.00032	-0.00032	-0.00031
	A0	0.00313	0.00320	0.00326
	A1	-0.00028	-0.00022	-0.00017
	A1	0.00036	0.00036	0.00037
	A1	-0.00021	-0.00021	-0.00020
	A1	0.00257	0.00266	0.00272
	B0	-0.00022	-0.00013	-0.00007
	B0	0.00006	0.00006	0.00007
	B0	-0.00021	-0.00020	-0.00020
	B0	0.00226	0.00233	0.00239
	C0	-0.00029	-0.00021	-0.00016
	C0	0.00016	0.00020	0.00028
	C0	-0.00021	-0.00020	-0.00016
	C0	0.00258	0.00264	0.00270

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X3H7H	(A1 * B0 * C0 * !Y)	-0.00029	-0.00025	-0.00019
	(A1 * B0 * C0 * !Y)	-0.00007	-0.00006	-0.00006
	(A1 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * C0 * !Y)	0.00061	0.00062	0.00062
	(A1 * B0 * !C0 * !Y)	-0.00028	-0.00024	-0.00018
	(A1 * B0 * !C0 * !Y)	-0.00007	-0.00007	-0.00007
	(A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * !Y)	0.00060	0.00061	0.00062
	(A1 * !B0 * C0 * !Y)	-0.00029	-0.00025	-0.00019
	(A1 * !B0 * C0 * !Y)	-0.00007	-0.00006	-0.00006
	(A1 * !B0 * C0 * !Y)	0.00001	0.00001	0.00002
	(A1 * !B0 * C0 * !Y)	0.00061	0.00062	0.00062
	(!A1 * C0 * !Y)	-0.00041	-0.00041	-0.00041
	(!A1 * C0 * !Y)	-0.00003	-0.00002	-0.00002
	(!A1 * C0 * !Y)	0.00004	0.00004	0.00004
	(!A1 * C0 * !Y)	0.00053	0.00053	0.00053
	(!A1 * B0 * !C0 * !Y)	-0.00041	-0.00041	-0.00041
	(!A1 * B0 * !C0 * !Y)	-0.00003	-0.00002	-0.00002
	(!A1 * B0 * !C0 * !Y)	0.00004	0.00004	0.00004
	(!A1 * B0 * !C0 * !Y)	0.00052	0.00053	0.00053
	(!A1 * !B0 * !C0 * Y)	-0.00046	-0.00045	-0.00045
	(!A1 * !B0 * !C0 * Y)	-0.00003	-0.00003	-0.00002
	(!A1 * !B0 * !C0 * Y)	0.00003	0.00003	0.00004
	(!A1 * !B0 * !C0 * Y)	0.00049	0.00049	0.00049

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X3H7H	(A1 * B0 * C0 * !Y)	0.00029	0.00029	0.00029
	(A1 * B0 * C0 * !Y)	0.00006	0.00006	0.00007
	(A1 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * C0 * !Y)	-0.00061	-0.00061	-0.00061
	(A1 * B0 * !C0 * !Y)	0.00028	0.00028	0.00028
	(A1 * B0 * !C0 * !Y)	0.00007	0.00007	0.00007
	(A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * !Y)	-0.00061	-0.00060	-0.00060
	(A1 * !B0 * C0 * !Y)	0.00029	0.00029	0.00029
	(A1 * !B0 * C0 * !Y)	0.00006	0.00006	0.00007
	(A1 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * C0 * !Y)	-0.00061	-0.00061	-0.00061
	(!A1 * C0 * !Y)	0.00041	0.00041	0.00041
	(!A1 * C0 * !Y)	0.00002	0.00003	0.00003
	(!A1 * C0 * !Y)	-0.00004	-0.00004	-0.00004
	(!A1 * C0 * !Y)	-0.00053	-0.00051	-0.00049
	(!A1 * B0 * !C0 * !Y)	0.00041	0.00041	0.00041
	(!A1 * B0 * !C0 * !Y)	0.00002	0.00003	0.00003
	(!A1 * B0 * !C0 * !Y)	-0.00004	-0.00004	-0.00004
	(!A1 * B0 * !C0 * !Y)	-0.00053	-0.00051	-0.00048
	(!A1 * !B0 * !C0 * Y)	0.00046	0.00046	0.00048
	(!A1 * !B0 * !C0 * Y)	0.00002	0.00003	0.00003
	(!A1 * !B0 * !C0 * Y)	-0.00004	-0.00003	-0.00003
	(!A1 * !B0 * !C0 * Y)	-0.00049	-0.00046	-0.00044

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X3H7H	(A0 * B0 * C0 * !Y)	-0.00027	-0.00023	-0.00018
	(A0 * B0 * C0 * !Y)	-0.00006	-0.00006	-0.00005
	(A0 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * C0 * !Y)	0.00054	0.00054	0.00055
	(A0 * B0 * !C0 * !Y)	-0.00026	-0.00022	-0.00017
	(A0 * B0 * !C0 * !Y)	-0.00006	-0.00006	-0.00005
	(A0 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * !Y)	0.00053	0.00054	0.00054
	(A0 * !B0 * C0 * !Y)	-0.00027	-0.00023	-0.00018
	(A0 * !B0 * C0 * !Y)	-0.00006	-0.00006	-0.00005
	(A0 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * C0 * !Y)	0.00054	0.00054	0.00055
	(!A0 * B0 * C0 * !Y)	-0.00036	-0.00036	-0.00035
	(!A0 * B0 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * B0 * C0 * !Y)	0.00003	0.00004	0.00004
	(!A0 * B0 * C0 * !Y)	0.00045	0.00046	0.00046
	(!A0 * B0 * !C0 * !Y)	-0.00036	-0.00036	-0.00035
	(!A0 * B0 * !C0 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * B0 * !C0 * !Y)	0.00004	0.00004	0.00004
	(!A0 * B0 * !C0 * !Y)	0.00045	0.00046	0.00046
	(!A0 * !B0 * C0 * !Y)	-0.00036	-0.00036	-0.00035
	(!A0 * !B0 * C0 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * !B0 * C0 * !Y)	0.00004	0.00004	0.00004
	(!A0 * !B0 * C0 * !Y)	0.00045	0.00046	0.00046
	(!A0 * !B0 * !C0 * Y)	-0.00056	-0.00055	-0.00055
	(!A0 * !B0 * !C0 * Y)	-0.00003	-0.00002	-0.00002
	(!A0 * !B0 * !C0 * Y)	0.00007	0.00007	0.00007
	(!A0 * !B0 * !C0 * Y)	0.00010	0.00010	0.00010

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X3H7H	(A0 * B0 * C0 * !Y)	0.00026	0.00026	0.00027
	(A0 * B0 * C0 * !Y)	0.00005	0.00006	0.00006
	(A0 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * C0 * !Y)	-0.00054	-0.00054	-0.00053
	(A0 * B0 * !C0 * !Y)	0.00026	0.00026	0.00026
	(A0 * B0 * !C0 * !Y)	0.00005	0.00006	0.00006
	(A0 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * !Y)	-0.00054	-0.00053	-0.00053
	(A0 * !B0 * C0 * !Y)	0.00026	0.00026	0.00027
	(A0 * !B0 * C0 * !Y)	0.00005	0.00006	0.00006
	(A0 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * C0 * !Y)	-0.00054	-0.00054	-0.00053
	(!A0 * B0 * C0 * !Y)	0.00035	0.00036	0.00036
	(!A0 * B0 * C0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * B0 * C0 * !Y)	-0.00004	-0.00004	-0.00003
	(!A0 * B0 * C0 * !Y)	-0.00046	-0.00044	-0.00042
	(!A0 * B0 * !C0 * !Y)	0.00036	0.00036	0.00036
	(!A0 * B0 * !C0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * B0 * !C0 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * B0 * !C0 * !Y)	-0.00046	-0.00044	-0.00041
	(!A0 * !B0 * C0 * !Y)	0.00035	0.00036	0.00036
	(!A0 * !B0 * C0 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !B0 * C0 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !B0 * C0 * !Y)	-0.00046	-0.00044	-0.00041
	(!A0 * !B0 * !C0 * Y)	0.00056	0.00056	0.00056
	(!A0 * !B0 * !C0 * Y)	0.00002	0.00003	0.00003
	(!A0 * !B0 * !C0 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !B0 * !C0 * Y)	-0.00010	-0.00010	-0.00010

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X3H7H	(A1 * C0 * !Y)	-0.00000	0.00000	0.00000
	(A1 * C0 * !Y)	-0.00008	-0.00008	-0.00008
	(A1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * C0 * !Y)	0.00070	0.00071	0.00071
	(A0 * A1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !C0 * !Y)	-0.00008	-0.00008	-0.00008
	(A0 * A1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !C0 * !Y)	0.00070	0.00071	0.00071
	(!A1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * C0 * !Y)	-0.00008	-0.00008	-0.00008
	(!A1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * C0 * !Y)	0.00070	0.00071	0.00071

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X3H7H	(A1 * C0 * !Y)	-0.00000	0.00000	0.00000
	(A1 * C0 * !Y)	0.00009	0.00009	0.00009
	(A1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * C0 * !Y)	-0.00071	-0.00071	-0.00070
	(A0 * A1 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * !Y)	0.00008	0.00008	0.00008
	(A0 * A1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !C0 * !Y)	-0.00071	-0.00071	-0.00070
	(!A1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * C0 * !Y)	0.00009	0.00009	0.00009
	(!A1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * C0 * !Y)	-0.00071	-0.00071	-0.00070

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X3H7H	(A0 * A1 * B0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B0 * !Y)	-0.00016	-0.00015	-0.00015
	(A0 * A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * !Y)	0.00063	0.00063	0.00064
	(A0 * A1 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * !Y)	-0.00012	-0.00012	-0.00012
	(A0 * A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * !Y)	0.00062	0.00063	0.00063
	(!A1 * B0 * !Y)	-0.00032	-0.00029	-0.00025
	(!A1 * B0 * !Y)	-0.00006	-0.00006	-0.00005
	(!A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !Y)	0.00059	0.00059	0.00060
	(!A0 * A1 * B0 * !Y)	-0.00032	-0.00029	-0.00025
	(!A0 * A1 * B0 * !Y)	-0.00006	-0.00006	-0.00005
	(!A0 * A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * !Y)	0.00059	0.00059	0.00060

Passive power(pJ) for C0 falling (conditional):

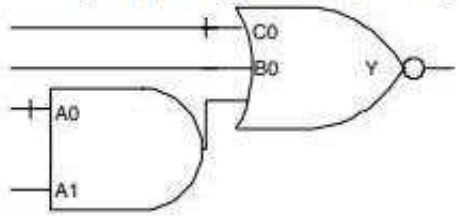
Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X3H7H	(A0 * A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !Y)	0.00015	0.00015	0.00016
	(A0 * A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B0 * !Y)	-0.00063	-0.00063	-0.00062
	(A0 * A1 * !B0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !Y)	0.00012	0.00013	0.00013
	(A0 * A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * !Y)	-0.00063	-0.00063	-0.00062
	(!A1 * B0 * !Y)	0.00032	0.00032	0.00032
	(!A1 * B0 * !Y)	0.00005	0.00006	0.00006
	(!A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !Y)	-0.00059	-0.00059	-0.00059
	(!A0 * A1 * B0 * !Y)	0.00032	0.00032	0.00032
	(!A0 * A1 * B0 * !Y)	0.00005	0.00006	0.00006
	(!A0 * A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * !Y)	-0.00059	-0.00059	-0.00058

AOI211X4H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI211 cell provides the logical inverted OR of one AND group and two additional inputs.
The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	Y
0	x	0	0	1
0	x	x	1	0
x	x	1	x	0
1	0	0	0	1
1	0	x	1	0
1	1	x	x	0

Footprint

Cell Name	Area
AOI211X4H7H	4.20000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	Y
AOI211X4H7H	0.00238	0.00214	0.00222	0.00236	0.03523

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI211X4H7H	0.00000	0.04433	0.15280

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI211X4H7H	A0->Y (FR)	0.07442	0.25140	0.73715
	A1->Y (FR)	0.06554	0.24088	0.72810
	B0->Y (FR)	0.05582	0.22644	0.72367
	C0->Y (FR)	0.06716	0.24335	0.75035

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI211X4H7H	A0->Y (RF)	0.03449	0.14800	0.49556
	A1->Y (RF)	0.03075	0.13977	0.48982
	B0->Y (RF)	0.01505	0.09322	0.38345
	C0->Y (RF)	0.01689	0.09781	0.38727

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI211X4H7H	A0	0.00416	0.00422	0.00427
	A0	-0.00048	-0.00048	-0.00047
	A0	0.00041	0.00042	0.00042
	A0	-0.00026	-0.00020	-0.00015
	A1	0.00365	0.00374	0.00382
	A1	-0.00048	-0.00048	-0.00047
	A1	0.00027	0.00027	0.00027
	A1	-0.00017	-0.00008	0.00000
	B0	0.00242	0.00254	0.00264
	B0	-0.00009	-0.00009	-0.00007
	B0	0.00041	0.00041	0.00041
	B0	-0.00039	-0.00031	-0.00021
	C0	0.00311	0.00319	0.00328
	C0	-0.00029	-0.00026	-0.00022
	C0	0.00041	0.00042	0.00042
	C0	-0.00036	-0.00028	-0.00020

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI211X4H7H	A0	-0.00037	-0.00029	-0.00023
	A0	0.00047	0.00048	0.00048
	A0	-0.00042	-0.00042	-0.00041
	A0	0.00379	0.00389	0.00396
	A1	-0.00035	-0.00028	-0.00022
	A1	0.00047	0.00048	0.00048
	A1	-0.00027	-0.00027	-0.00027
	A1	0.00308	0.00319	0.00327
	B0	-0.00029	-0.00019	-0.00011
	B0	0.00008	0.00009	0.00010
	B0	-0.00027	-0.00027	-0.00026
	B0	0.00264	0.00273	0.00280
	C0	-0.00037	-0.00027	-0.00021
	C0	0.00022	0.00026	0.00031
	C0	-0.00027	-0.00027	-0.00027
	C0	0.00308	0.00316	0.00323

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X4H7H	(A1 * B0 * C0 * !Y)	-0.00038	-0.00032	-0.00025
	(A1 * B0 * C0 * !Y)	-0.00009	-0.00008	-0.00008
	(A1 * B0 * C0 * !Y)	0.00001	0.00002	0.00002
	(A1 * B0 * C0 * !Y)	0.00069	0.00069	0.00070
	(A1 * B0 * !C0 * !Y)	-0.00037	-0.00031	-0.00023
	(A1 * B0 * !C0 * !Y)	-0.00010	-0.00009	-0.00007
	(A1 * B0 * !C0 * !Y)	0.00001	0.00002	0.00002
	(A1 * B0 * !C0 * !Y)	0.00068	0.00068	0.00069
	(A1 * !B0 * C0 * !Y)	-0.00038	-0.00032	-0.00025
	(A1 * !B0 * C0 * !Y)	-0.00008	-0.00008	-0.00008
	(A1 * !B0 * C0 * !Y)	0.00001	0.00001	0.00002
	(A1 * !B0 * C0 * !Y)	0.00069	0.00069	0.00071
	(!A1 * C0 * !Y)	-0.00054	-0.00054	-0.00053
	(!A1 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1 * C0 * !Y)	0.00004	0.00005	0.00005
	(!A1 * C0 * !Y)	0.00058	0.00058	0.00058
	(!A1 * B0 * !C0 * !Y)	-0.00054	-0.00054	-0.00054
	(!A1 * B0 * !C0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1 * B0 * !C0 * !Y)	0.00005	0.00005	0.00005
	(!A1 * B0 * !C0 * !Y)	0.00058	0.00058	0.00059
	(!A1 * !B0 * !C0 * Y)	-0.00059	-0.00059	-0.00058
	(!A1 * !B0 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * !C0 * Y)	0.00004	0.00004	0.00005
	(!A1 * !B0 * !C0 * Y)	0.00054	0.00054	0.00055

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X4H7H	(A1 * B0 * C0 * !Y)	0.00037	0.00038	0.00038
	(A1 * B0 * C0 * !Y)	0.00008	0.00009	0.00009
	(A1 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * C0 * !Y)	-0.00069	-0.00068	-0.00068
	(A1 * B0 * !C0 * !Y)	0.00036	0.00036	0.00037
	(A1 * B0 * !C0 * !Y)	0.00007	0.00009	0.00010
	(A1 * B0 * !C0 * !Y)	-0.00002	-0.00001	-0.00001
	(A1 * B0 * !C0 * !Y)	-0.00068	-0.00068	-0.00068
	(A1 * !B0 * C0 * !Y)	0.00037	0.00038	0.00038
	(A1 * !B0 * C0 * !Y)	0.00008	0.00008	0.00008
	(A1 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * C0 * !Y)	-0.00069	-0.00069	-0.00068
	(!A1 * C0 * !Y)	0.00053	0.00054	0.00054
	(!A1 * C0 * !Y)	0.00003	0.00003	0.00003
	(!A1 * C0 * !Y)	-0.00005	-0.00005	-0.00004
	(!A1 * C0 * !Y)	-0.00058	-0.00056	-0.00053
	(!A1 * B0 * !C0 * !Y)	0.00054	0.00054	0.00054
	(!A1 * B0 * !C0 * !Y)	0.00003	0.00003	0.00003
	(!A1 * B0 * !C0 * !Y)	-0.00005	-0.00005	-0.00005
	(!A1 * B0 * !C0 * !Y)	-0.00058	-0.00056	-0.00053
	(!A1 * !B0 * !C0 * Y)	0.00059	0.00059	0.00060
	(!A1 * !B0 * !C0 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * !C0 * Y)	-0.00005	-0.00004	-0.00004
	(!A1 * !B0 * !C0 * Y)	-0.00054	-0.00051	-0.00047

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X4H7H	(A0 * B0 * C0 * !Y)	-0.00034	-0.00030	-0.00023
	(A0 * B0 * C0 * !Y)	-0.00007	-0.00007	-0.00007
	(A0 * B0 * C0 * !Y)	0.00001	0.00002	0.00002
	(A0 * B0 * C0 * !Y)	0.00059	0.00059	0.00060
	(A0 * B0 * !C0 * !Y)	-0.00033	-0.00028	-0.00022
	(A0 * B0 * !C0 * !Y)	-0.00008	-0.00007	-0.00007
	(A0 * B0 * !C0 * !Y)	0.00001	0.00002	0.00002
	(A0 * B0 * !C0 * !Y)	0.00058	0.00058	0.00059
	(A0 * !B0 * C0 * !Y)	-0.00034	-0.00030	-0.00024
	(A0 * !B0 * C0 * !Y)	-0.00007	-0.00007	-0.00007
	(A0 * !B0 * C0 * !Y)	0.00001	0.00002	0.00002
	(A0 * !B0 * C0 * !Y)	0.00059	0.00059	0.00060
	(!A0 * B0 * C0 * !Y)	-0.00046	-0.00045	-0.00045
	(!A0 * B0 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * B0 * C0 * !Y)	0.00005	0.00005	0.00005
	(!A0 * B0 * C0 * !Y)	0.00049	0.00049	0.00049
	(!A0 * B0 * !C0 * !Y)	-0.00046	-0.00045	-0.00045
	(!A0 * B0 * !C0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * B0 * !C0 * !Y)	0.00005	0.00005	0.00005
	(!A0 * B0 * !C0 * !Y)	0.00048	0.00049	0.00049
	(!A0 * !B0 * C0 * !Y)	-0.00046	-0.00045	-0.00045
	(!A0 * !B0 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !B0 * C0 * !Y)	0.00005	0.00005	0.00005
	(!A0 * !B0 * C0 * !Y)	0.00049	0.00049	0.00049
	(!A0 * !B0 * !C0 * Y)	-0.00068	-0.00067	-0.00067
	(!A0 * !B0 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !B0 * !C0 * Y)	0.00009	0.00009	0.00009
	(!A0 * !B0 * !C0 * Y)	0.00007	0.00008	0.00008

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X4H7H	(A0 * B0 * C0 * !Y)	0.00033	0.00034	0.00034
	(A0 * B0 * C0 * !Y)	0.00007	0.00007	0.00007
	(A0 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * C0 * !Y)	-0.00059	-0.00059	-0.00058
	(A0 * B0 * !C0 * !Y)	0.00033	0.00033	0.00033
	(A0 * B0 * !C0 * !Y)	0.00007	0.00007	0.00008
	(A0 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * !Y)	-0.00058	-0.00058	-0.00057
	(A0 * !B0 * C0 * !Y)	0.00033	0.00034	0.00034
	(A0 * !B0 * C0 * !Y)	0.00007	0.00007	0.00007
	(A0 * !B0 * C0 * !Y)	-0.00002	-0.00001	-0.00001
	(A0 * !B0 * C0 * !Y)	-0.00059	-0.00059	-0.00058
	(!A0 * B0 * C0 * !Y)	0.00045	0.00046	0.00046
	(!A0 * B0 * C0 * !Y)	0.00003	0.00003	0.00003
	(!A0 * B0 * C0 * !Y)	-0.00005	-0.00005	-0.00004
	(!A0 * B0 * C0 * !Y)	-0.00049	-0.00047	-0.00044
	(!A0 * B0 * !C0 * !Y)	0.00045	0.00045	0.00046
	(!A0 * B0 * !C0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * B0 * !C0 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * B0 * !C0 * !Y)	-0.00049	-0.00047	-0.00043
	(!A0 * !B0 * C0 * !Y)	0.00045	0.00045	0.00046
	(!A0 * !B0 * C0 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !B0 * C0 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !B0 * C0 * !Y)	-0.00049	-0.00047	-0.00043
	(!A0 * !B0 * !C0 * Y)	0.00067	0.00068	0.00068
	(!A0 * !B0 * !C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !B0 * !C0 * Y)	-0.00009	-0.00009	-0.00008
	(!A0 * !B0 * !C0 * Y)	-0.00008	-0.00008	-0.00007

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X4H7H	(A1 * C0 * !Y)	-0.00000	0.00000	0.00000
	(A1 * C0 * !Y)	-0.00011	-0.00011	-0.00011
	(A1 * C0 * !Y)	0.00001	0.00002	0.00002
	(A1 * C0 * !Y)	0.00078	0.00079	0.00079
	(A0 * A1 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * !Y)	-0.00010	-0.00010	-0.00010
	(A0 * A1 * !C0 * !Y)	0.00001	0.00002	0.00002
	(A0 * A1 * !C0 * !Y)	0.00079	0.00079	0.00079
	(!A1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * C0 * !Y)	-0.00011	-0.00011	-0.00011
	(!A1 * C0 * !Y)	0.00001	0.00002	0.00002
	(!A1 * C0 * !Y)	0.00079	0.00079	0.00079

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X4H7H	(A1 * C0 * !Y)	-0.00000	0.00000	0.00000
	(A1 * C0 * !Y)	0.00011	0.00011	0.00011
	(A1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * C0 * !Y)	-0.00079	-0.00079	-0.00078
	(A0 * A1 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * !Y)	0.00010	0.00010	0.00010
	(A0 * A1 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * !C0 * !Y)	-0.00079	-0.00079	-0.00079
	(!A1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * C0 * !Y)	0.00011	0.00011	0.00011
	(!A1 * C0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A1 * C0 * !Y)	-0.00079	-0.00079	-0.00078

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X4H7H	(A0 * A1 * B0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !Y)	-0.00020	-0.00019	-0.00019
	(A0 * A1 * B0 * !Y)	0.00001	0.00001	0.00002
	(A0 * A1 * B0 * !Y)	0.00071	0.00072	0.00072
	(A0 * A1 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * !Y)	-0.00016	-0.00015	-0.00016
	(A0 * A1 * !B0 * !Y)	0.00001	0.00002	0.00002
	(A0 * A1 * !B0 * !Y)	0.00071	0.00071	0.00071
	(!A1 * B0 * !Y)	-0.00040	-0.00036	-0.00031
	(!A1 * B0 * !Y)	-0.00007	-0.00007	-0.00007
	(!A1 * B0 * !Y)	0.00001	0.00001	0.00002
	(!A1 * B0 * !Y)	0.00066	0.00067	0.00067
	(!A0 * A1 * B0 * !Y)	-0.00040	-0.00036	-0.00031
	(!A0 * A1 * B0 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0 * A1 * B0 * !Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * B0 * !Y)	0.00066	0.00067	0.00067

Passive power(pJ) for C0 falling (conditional):

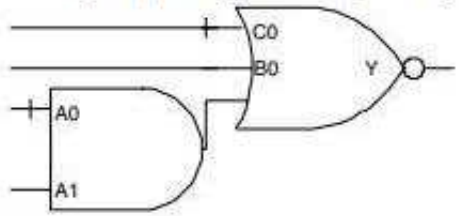
Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X4H7H	(A0 * A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !Y)	0.00019	0.00019	0.00020
	(A0 * A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B0 * !Y)	-0.00072	-0.00071	-0.00071
	(A0 * A1 * !B0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !Y)	0.00016	0.00016	0.00016
	(A0 * A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * !B0 * !Y)	-0.00071	-0.00071	-0.00071
	(!A1 * B0 * !Y)	0.00039	0.00040	0.00040
	(!A1 * B0 * !Y)	0.00007	0.00007	0.00007
	(!A1 * B0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A1 * B0 * !Y)	-0.00067	-0.00066	-0.00066
	(!A0 * A1 * B0 * !Y)	0.00039	0.00040	0.00040
	(!A0 * A1 * B0 * !Y)	0.00007	0.00007	0.00007
	(!A0 * A1 * B0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * A1 * B0 * !Y)	-0.00067	-0.00066	-0.00066

AOI211X6H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI211 cell provides the logical inverted OR of one AND group and two additional inputs.
The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	Y
0	x	0	0	1
0	x	x	1	0
x	x	1	x	0
1	0	0	0	1
1	0	x	1	0
1	1	x	x	0

Footprint

Cell Name	Area
AOI211X6H7H	6.44000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	Y
AOI211X6H7H	0.00379	0.00382	0.00410	0.00403	0.05594

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI211X6H7H	0.00000	0.05623	0.15097

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI211X6H7H	A0->Y (FR)	0.07387	0.24859	0.73062
	A1->Y (FR)	0.06476	0.23804	0.72073
	B0->Y (FR)	0.06795	0.24265	0.74668
	C0->Y (FR)	0.05756	0.22687	0.72093

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI211X6H7H	A0->Y (RF)	0.03403	0.14679	0.49211
	A1->Y (RF)	0.03135	0.13980	0.48977
	B0->Y (RF)	0.01707	0.09724	0.38482
	C0->Y (RF)	0.01533	0.09292	0.38070

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI211X6H7H	A0	0.00665	0.00675	0.00684
	A0	-0.00073	-0.00073	-0.00071
	A0	0.00063	0.00063	0.00063
	A0	-0.00052	-0.00042	-0.00033
	A1	0.00598	0.00611	0.00625
	A1	-0.00073	-0.00072	-0.00071
	A1	0.00040	0.00041	0.00042
	A1	-0.00035	-0.00021	-0.00007
	B0	0.00516	0.00531	0.00546
	B0	-0.00039	-0.00038	-0.00030
	B0	0.00063	0.00063	0.00063
	B0	-0.00063	-0.00049	-0.00033
	C0	0.00414	0.00433	0.00452
	C0	-0.00013	-0.00013	-0.00011
	C0	0.00063	0.00063	0.00063
	C0	-0.00068	-0.00054	-0.00038

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI211X6H7H	A0	-0.00054	-0.00043	-0.00034
	A0	0.00071	0.00073	0.00073
	A0	-0.00063	-0.00063	-0.00063
	A0	0.00624	0.00638	0.00648
	A1	-0.00058	-0.00046	-0.00035
	A1	0.00071	0.00072	0.00073
	A1	-0.00041	-0.00041	-0.00040
	A1	0.00519	0.00536	0.00550
	B0	-0.00057	-0.00042	-0.00030
	B0	0.00038	0.00039	0.00040
	B0	-0.00041	-0.00041	-0.00041
	B0	0.00522	0.00535	0.00547
	C0	-0.00045	-0.00027	-0.00014
	C0	0.00012	0.00013	0.00020
	C0	-0.00041	-0.00041	-0.00040
	C0	0.00457	0.00472	0.00486

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X6H7H	(A1 * B0 * C0 * !Y)	-0.00053	-0.00047	-0.00036
	(A1 * B0 * C0 * !Y)	-0.00011	-0.00011	-0.00011
	(A1 * B0 * C0 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * C0 * !Y)	0.00124	0.00125	0.00127
	(A1 * B0 * !C0 * !Y)	-0.00054	-0.00047	-0.00037
	(A1 * B0 * !C0 * !Y)	-0.00011	-0.00011	-0.00011
	(A1 * B0 * !C0 * !Y)	0.00002	0.00003	0.00004
	(A1 * B0 * !C0 * !Y)	0.00124	0.00125	0.00126
	(A1 * !B0 * C0 * !Y)	-0.00052	-0.00045	-0.00035
	(A1 * !B0 * C0 * !Y)	-0.00013	-0.00012	-0.00011
	(A1 * !B0 * C0 * !Y)	0.00001	0.00002	0.00004
	(A1 * !B0 * C0 * !Y)	0.00123	0.00124	0.00125
	(!A1 * B0 * !Y)	-0.00072	-0.00072	-0.00072
	(!A1 * B0 * !Y)	-0.00005	-0.00005	-0.00004
	(!A1 * B0 * !Y)	0.00007	0.00008	0.00008
	(!A1 * B0 * !Y)	0.00108	0.00108	0.00109
	(!A1 * !B0 * C0 * !Y)	-0.00072	-0.00072	-0.00071
	(!A1 * !B0 * C0 * !Y)	-0.00005	-0.00005	-0.00005
	(!A1 * !B0 * C0 * !Y)	0.00007	0.00007	0.00008
	(!A1 * !B0 * C0 * !Y)	0.00107	0.00108	0.00108
	(!A1 * !B0 * !C0 * Y)	-0.00084	-0.00084	-0.00083
	(!A1 * !B0 * !C0 * Y)	-0.00005	-0.00005	-0.00005
	(!A1 * !B0 * !C0 * Y)	0.00007	0.00007	0.00007
	(!A1 * !B0 * !C0 * Y)	0.00097	0.00098	0.00099

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X6H7H	(A1 * B0 * C0 * !Y)	0.00053	0.00053	0.00053
	(A1 * B0 * C0 * !Y)	0.00011	0.00011	0.00011
	(A1 * B0 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * C0 * !Y)	-0.00125	-0.00124	-0.00124
	(A1 * B0 * !C0 * !Y)	0.00053	0.00053	0.00054
	(A1 * B0 * !C0 * !Y)	0.00011	0.00011	0.00011
	(A1 * B0 * !C0 * !Y)	-0.00003	-0.00002	-0.00002
	(A1 * B0 * !C0 * !Y)	-0.00125	-0.00124	-0.00124
	(A1 * !B0 * C0 * !Y)	0.00052	0.00052	0.00052
	(A1 * !B0 * C0 * !Y)	0.00011	0.00012	0.00013
	(A1 * !B0 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * !B0 * C0 * !Y)	-0.00124	-0.00123	-0.00122
	(!A1 * B0 * !Y)	0.00072	0.00072	0.00072
	(!A1 * B0 * !Y)	0.00005	0.00005	0.00005
	(!A1 * B0 * !Y)	-0.00008	-0.00007	-0.00007
	(!A1 * B0 * !Y)	-0.00108	-0.00105	-0.00100
	(!A1 * !B0 * C0 * !Y)	0.00071	0.00072	0.00072
	(!A1 * !B0 * C0 * !Y)	0.00005	0.00005	0.00005
	(!A1 * !B0 * C0 * !Y)	-0.00008	-0.00007	-0.00007
	(!A1 * !B0 * C0 * !Y)	-0.00108	-0.00104	-0.00099
	(!A1 * !B0 * !C0 * Y)	0.00084	0.00085	0.00088
	(!A1 * !B0 * !C0 * Y)	0.00005	0.00005	0.00006
	(!A1 * !B0 * !C0 * Y)	-0.00007	-0.00007	-0.00007
	(!A1 * !B0 * !C0 * Y)	-0.00097	-0.00092	-0.00087

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X6H7H	(A0 * B0 * C0 * !Y)	-0.00057	-0.00049	-0.00038
	(A0 * B0 * C0 * !Y)	-0.00013	-0.00013	-0.00012
	(A0 * B0 * C0 * !Y)	0.00002	0.00002	0.00003
	(A0 * B0 * C0 * !Y)	0.00105	0.00107	0.00108
	(A0 * B0 * !C0 * !Y)	-0.00057	-0.00049	-0.00038
	(A0 * B0 * !C0 * !Y)	-0.00013	-0.00013	-0.00012
	(A0 * B0 * !C0 * !Y)	0.00002	0.00002	0.00003
	(A0 * B0 * !C0 * !Y)	0.00105	0.00107	0.00108
	(A0 * !B0 * C0 * !Y)	-0.00055	-0.00047	-0.00036
	(A0 * !B0 * C0 * !Y)	-0.00014	-0.00014	-0.00013
	(A0 * !B0 * C0 * !Y)	0.00002	0.00002	0.00003
	(A0 * !B0 * C0 * !Y)	0.00104	0.00105	0.00106
	(!A0 * B0 * C0 * !Y)	-0.00079	-0.00079	-0.00079
	(!A0 * B0 * C0 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * B0 * C0 * !Y)	0.00007	0.00007	0.00008
	(!A0 * B0 * C0 * !Y)	0.00088	0.00089	0.00089
	(!A0 * B0 * !C0 * !Y)	-0.00079	-0.00079	-0.00078
	(!A0 * B0 * !C0 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * B0 * !C0 * !Y)	0.00007	0.00007	0.00008
	(!A0 * B0 * !C0 * !Y)	0.00087	0.00088	0.00089
	(!A0 * !B0 * C0 * !Y)	-0.00079	-0.00079	-0.00078
	(!A0 * !B0 * C0 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !B0 * C0 * !Y)	0.00007	0.00008	0.00008
	(!A0 * !B0 * C0 * !Y)	0.00088	0.00089	0.00089
	(!A0 * !B0 * !C0 * Y)	-0.00116	-0.00115	-0.00113
	(!A0 * !B0 * !C0 * Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !B0 * !C0 * Y)	0.00013	0.00014	0.00014
	(!A0 * !B0 * !C0 * Y)	0.00020	0.00021	0.00021

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X6H7H	(A0 * B0 * C0 * !Y)	0.00056	0.00057	0.00057
	(A0 * B0 * C0 * !Y)	0.00012	0.00013	0.00013
	(A0 * B0 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * C0 * !Y)	-0.00106	-0.00105	-0.00105
	(A0 * B0 * !C0 * !Y)	0.00056	0.00057	0.00057
	(A0 * B0 * !C0 * !Y)	0.00012	0.00013	0.00013
	(A0 * B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !C0 * !Y)	-0.00106	-0.00105	-0.00105
	(A0 * !B0 * C0 * !Y)	0.00054	0.00055	0.00055
	(A0 * !B0 * C0 * !Y)	0.00013	0.00014	0.00014
	(A0 * !B0 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * C0 * !Y)	-0.00105	-0.00104	-0.00103
	(!A0 * B0 * C0 * !Y)	0.00079	0.00079	0.00079
	(!A0 * B0 * C0 * !Y)	0.00005	0.00005	0.00005
	(!A0 * B0 * C0 * !Y)	-0.00008	-0.00007	-0.00007
	(!A0 * B0 * C0 * !Y)	-0.00089	-0.00085	-0.00080
	(!A0 * B0 * !C0 * !Y)	0.00079	0.00079	0.00080
	(!A0 * B0 * !C0 * !Y)	0.00005	0.00005	0.00005
	(!A0 * B0 * !C0 * !Y)	-0.00008	-0.00007	-0.00007
	(!A0 * B0 * !C0 * !Y)	-0.00089	-0.00085	-0.00080
	(!A0 * !B0 * C0 * !Y)	0.00078	0.00079	0.00080
	(!A0 * !B0 * C0 * !Y)	0.00005	0.00005	0.00006
	(!A0 * !B0 * C0 * !Y)	-0.00008	-0.00007	-0.00007
	(!A0 * !B0 * C0 * !Y)	-0.00089	-0.00085	-0.00079
	(!A0 * !B0 * !C0 * Y)	0.00114	0.00115	0.00116
	(!A0 * !B0 * !C0 * Y)	0.00005	0.00005	0.00005
	(!A0 * !B0 * !C0 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !B0 * !C0 * Y)	-0.00021	-0.00021	-0.00020

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X6H7H	(A0 * A1 * C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * C0 * !Y)	-0.00030	-0.00030	-0.00030
	(A0 * A1 * C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * C0 * !Y)	0.00127	0.00128	0.00129
	(A0 * A1 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * !Y)	-0.00024	-0.00024	-0.00024
	(A0 * A1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !C0 * !Y)	0.00126	0.00127	0.00127
	(!A1 * C0 * !Y)	-0.00062	-0.00056	-0.00048
	(!A1 * C0 * !Y)	-0.00012	-0.00011	-0.00010
	(!A1 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * C0 * !Y)	0.00119	0.00120	0.00122
	(!A0 * A1 * C0 * !Y)	-0.00062	-0.00056	-0.00048
	(!A0 * A1 * C0 * !Y)	-0.00012	-0.00011	-0.00010
	(!A0 * A1 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * C0 * !Y)	0.00120	0.00120	0.00121

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X6H7H	(A0 * A1 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * C0 * !Y)	0.00030	0.00030	0.00030
	(A0 * A1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * C0 * !Y)	-0.00128	-0.00127	-0.00125
	(A0 * A1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !C0 * !Y)	0.00024	0.00025	0.00025
	(A0 * A1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !C0 * !Y)	-0.00127	-0.00127	-0.00125
	(!A1 * C0 * !Y)	0.00061	0.00061	0.00062
	(!A1 * C0 * !Y)	0.00011	0.00011	0.00012
	(!A1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * C0 * !Y)	-0.00120	-0.00120	-0.00119
	(!A0 * A1 * C0 * !Y)	0.00061	0.00061	0.00062
	(!A0 * A1 * C0 * !Y)	0.00011	0.00011	0.00012
	(!A0 * A1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * C0 * !Y)	-0.00120	-0.00120	-0.00119

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X6H7H	(A1 * B0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !Y)	-0.00017	-0.00017	-0.00017
	(A1 * B0 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !Y)	0.00144	0.00144	0.00144
	(A0 * A1 * !B0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !Y)	-0.00015	-0.00015	-0.00015
	(A0 * A1 * !B0 * !Y)	0.00002	0.00002	0.00003
	(A0 * A1 * !B0 * !Y)	0.00143	0.00144	0.00145
	(!A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A1 * B0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * !Y)	0.00142	0.00144	0.00144

Passive power(pJ) for C0 falling (conditional):

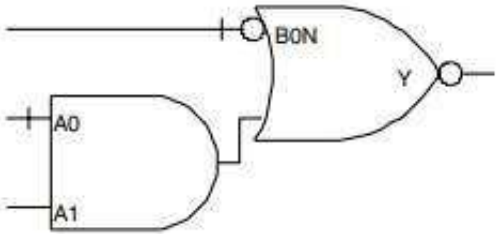
Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X6H7H	(A1 * B0 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * !Y)	0.00017	0.00017	0.00018
	(A1 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !Y)	-0.00144	-0.00144	-0.00143
	(A0 * A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !Y)	0.00015	0.00015	0.00015
	(A0 * A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * !Y)	-0.00145	-0.00144	-0.00143
	(!A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !Y)	0.00017	0.00017	0.00017
	(!A1 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * !Y)	-0.00144	-0.00144	-0.00142

AOI21BX0P5H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI21B cell provides the logical inverted OR of one AND group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0N	Y
x	x	0	0
0	x	1	1
1	0	1	1
1	1	1	0

Footprint

Cell Name	Area
AOI21BX0P5H7H	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0N	Y
AOI21BX0P5H7H	0.00076	0.00083	0.00089	0.01528

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI21BX0P5H7H	0.00000	0.01433	0.01677

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI21BX0P5H7H	A0->Y (FR)	0.06222	0.24186	0.75345
	A1->Y (FR)	0.05765	0.23451	0.74608
	B0N->Y (RR)	0.07873	0.23630	0.61736

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI21BX0P5H7H	A0->Y (RF)	0.04009	0.17259	0.57080
	A1->Y (RF)	0.03820	0.16905	0.58217
	B0N->Y (FF)	0.05478	0.14776	0.35909

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI21BX0P5H7H	A0	0.00107	0.00108	0.00110
	A0	-0.00008	-0.00008	-0.00008
	A0	0.00008	0.00008	0.00009
	A0	0.00015	0.00016	0.00018
	A1	0.00093	0.00096	0.00100
	A1	-0.00009	-0.00008	-0.00008
	A1	0.00005	0.00005	0.00005
	A1	0.00014	0.00018	0.00021
	B0N	0.00069	0.00075	0.00081
	B0N	-0.00000	0.00000	0.00000
	B0N	0.00006	0.00006	0.00006
	B0N	0.00107	0.00113	0.00120

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI21BX0P5H7H	A0	-0.00010	-0.00008	-0.00006
	A0	0.00008	0.00008	0.00008
	A0	-0.00009	-0.00008	-0.00008
	A0	0.00077	0.00082	0.00084
	A1	-0.00011	-0.00008	-0.00006
	A1	0.00008	0.00008	0.00009
	A1	-0.00005	-0.00005	-0.00005
	A1	0.00061	0.00065	0.00068
	B0N	0.00110	0.00116	0.00121
	B0N	0.00000	0.00000	0.00001
	B0N	-0.00003	-0.00003	-0.00002
	B0N	0.00074	0.00080	0.00085

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX0P5H7H	(A1 * !B0N * !Y)	-0.00012	-0.00010	-0.00008
	(A1 * !B0N * !Y)	-0.00003	-0.00002	-0.00002
	(A1 * !B0N * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0N * !Y)	0.00025	0.00025	0.00026
	(!A1 * B0N * Y)	-0.00016	-0.00016	-0.00016
	(!A1 * B0N * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0N * Y)	0.00001	0.00001	0.00002
	(!A1 * B0N * Y)	0.00021	0.00022	0.00022
	(!A1 * !B0N * !Y)	-0.00016	-0.00016	-0.00016
	(!A1 * !B0N * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0N * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B0N * !Y)	0.00021	0.00021	0.00022

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX0P5H7H	(A1 * !B0N * !Y)	0.00012	0.00012	0.00012
	(A1 * !B0N * !Y)	0.00002	0.00002	0.00003
	(A1 * !B0N * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0N * !Y)	-0.00025	-0.00025	-0.00025
	(!A1 * B0N * Y)	0.00016	0.00016	0.00017
	(!A1 * B0N * Y)	0.00001	0.00001	0.00001
	(!A1 * B0N * Y)	-0.00002	-0.00001	-0.00001
	(!A1 * B0N * Y)	-0.00022	-0.00021	-0.00019
	(!A1 * !B0N * !Y)	0.00016	0.00016	0.00016
	(!A1 * !B0N * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0N * !Y)	-0.00002	-0.00001	-0.00001
	(!A1 * !B0N * !Y)	-0.00022	-0.00021	-0.00020

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX0P5H7H	(A0 * !B0N * !Y)	-0.00012	-0.00011	-0.00009
	(A0 * !B0N * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0N * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0N * !Y)	0.00026	0.00026	0.00026
	(!A0 * B0N * Y)	-0.00024	-0.00024	-0.00024
	(!A0 * B0N * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0N * Y)	0.00002	0.00003	0.00003
	(!A0 * B0N * Y)	0.00007	0.00007	0.00008
	(!A0 * !B0N * !Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !B0N * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0N * !Y)	0.00001	0.00001	0.00002
	(!A0 * !B0N * !Y)	0.00022	0.00022	0.00022

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX0P5H7H	(A0 * !B0N * !Y)	0.00012	0.00012	0.00012
	(A0 * !B0N * !Y)	0.00002	0.00002	0.00002
	(A0 * !B0N * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0N * !Y)	-0.00026	-0.00026	-0.00026
	(!A0 * B0N * Y)	0.00024	0.00024	0.00024
	(!A0 * B0N * Y)	0.00001	0.00001	0.00001
	(!A0 * B0N * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * B0N * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !B0N * !Y)	0.00015	0.00015	0.00016
	(!A0 * !B0N * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0N * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !B0N * !Y)	-0.00022	-0.00022	-0.00021

Passive power(pJ) for B0N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX0P5H7H	(A0 * A1 * !Y)	-0.00012	-0.00010	-0.00007
	(A0 * A1 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !Y)	0.00063	0.00065	0.00068

Passive power(pJ) for B0N falling (conditional):

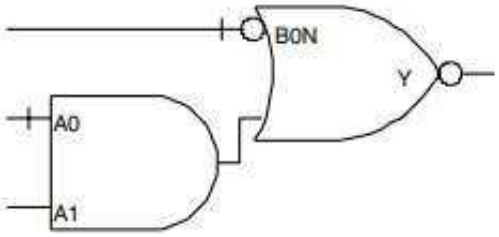
Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX0P5H7H	(A0 * A1 * !Y)	0.00095	0.00097	0.00100
	(A0 * A1 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * !Y)	0.00002	0.00003	0.00002
	(A0 * A1 * !Y)	0.00020	0.00022	0.00025

AOI21BX0P7H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI21B cell provides the logical inverted OR of one AND group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0N	Y
x	x	0	0
0	x	1	1
1	0	1	1
1	1	1	0

Footprint

Cell Name	Area
AOI21BX0P7H7H	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0N	Y
AOI21BX0P7H7H	0.00076	0.00084	0.00093	0.01611

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI21BX0P7H7H	0.00000	0.01589	0.01689

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI21BX0P7H7H	A0->Y (FR)	0.06084	0.24196	0.75836
	A1->Y (FR)	0.05663	0.23510	0.75243
	B0N->Y (RR)	0.07579	0.23309	0.61354

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI21BX0P7H7H	A0->Y (RF)	0.04110	0.17804	0.58639
	A1->Y (RF)	0.03936	0.17468	0.59883
	B0N->Y (FF)	0.05105	0.14073	0.34329

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI21BX0P7H7H	A0	0.00110	0.00112	0.00113
	A0	-0.00009	-0.00009	-0.00009
	A0	0.00009	0.00009	0.00009
	A0	0.00017	0.00018	0.00019
	A1	0.00096	0.00100	0.00103
	A1	-0.00009	-0.00009	-0.00009
	A1	0.00005	0.00005	0.00005
	A1	0.00016	0.00020	0.00023
	B0N	0.00071	0.00078	0.00085
	B0N	-0.00000	0.00000	0.00000
	B0N	0.00006	0.00006	0.00006
	B0N	0.00113	0.00119	0.00126

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI21BX0P7H7H	A0	-0.00010	-0.00008	-0.00006
	A0	0.00009	0.00009	0.00009
	A0	-0.00009	-0.00009	-0.00009
	A0	0.00080	0.00084	0.00085
	A1	-0.00011	-0.00008	-0.00006
	A1	0.00009	0.00009	0.00009
	A1	-0.00005	-0.00005	-0.00005
	A1	0.00064	0.00067	0.00070
	B0N	0.00115	0.00122	0.00128
	B0N	0.00000	0.00000	0.00000
	B0N	-0.00003	-0.00003	-0.00002
	B0N	0.00076	0.00082	0.00088

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX0P7H7H	(A1 * !B0N * !Y)	-0.00012	-0.00010	-0.00008
	(A1 * !B0N * !Y)	-0.00003	-0.00002	-0.00002
	(A1 * !B0N * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0N * !Y)	0.00025	0.00025	0.00026
	(!A1 * B0N * Y)	-0.00016	-0.00016	-0.00016
	(!A1 * B0N * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0N * Y)	0.00001	0.00001	0.00002
	(!A1 * B0N * Y)	0.00021	0.00022	0.00022
	(!A1 * !B0N * !Y)	-0.00016	-0.00016	-0.00016
	(!A1 * !B0N * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0N * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0N * !Y)	0.00021	0.00021	0.00022

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX0P7H7H	(A1 * !B0N * !Y)	0.00012	0.00012	0.00012
	(A1 * !B0N * !Y)	0.00002	0.00002	0.00003
	(A1 * !B0N * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0N * !Y)	-0.00025	-0.00025	-0.00025
	(!A1 * B0N * Y)	0.00016	0.00016	0.00017
	(!A1 * B0N * Y)	0.00001	0.00001	0.00001
	(!A1 * B0N * Y)	-0.00002	-0.00001	-0.00001
	(!A1 * B0N * Y)	-0.00022	-0.00021	-0.00020
	(!A1 * !B0N * !Y)	0.00016	0.00016	0.00016
	(!A1 * !B0N * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B0N * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0N * !Y)	-0.00022	-0.00021	-0.00020

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX0P7H7H	(A0 * !B0N * !Y)	-0.00012	-0.00011	-0.00009
	(A0 * !B0N * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0N * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0N * !Y)	0.00026	0.00026	0.00026
	(!A0 * B0N * Y)	-0.00024	-0.00024	-0.00024
	(!A0 * B0N * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0N * Y)	0.00002	0.00003	0.00003
	(!A0 * B0N * Y)	0.00007	0.00007	0.00008
	(!A0 * !B0N * !Y)	-0.00016	-0.00015	-0.00015
	(!A0 * !B0N * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0N * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0N * !Y)	0.00022	0.00022	0.00022

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX0P7H7H	(A0 * !B0N * !Y)	0.00012	0.00012	0.00012
	(A0 * !B0N * !Y)	0.00002	0.00002	0.00002
	(A0 * !B0N * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0N * !Y)	-0.00026	-0.00026	-0.00026
	(!A0 * B0N * Y)	0.00024	0.00024	0.00024
	(!A0 * B0N * Y)	0.00001	0.00001	0.00001
	(!A0 * B0N * Y)	-0.00003	-0.00002	-0.00002
	(!A0 * B0N * Y)	-0.00008	-0.00007	-0.00007
	(!A0 * !B0N * !Y)	0.00015	0.00016	0.00016
	(!A0 * !B0N * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0N * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0N * !Y)	-0.00022	-0.00022	-0.00021

Passive power(pJ) for B0N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX0P7H7H	(A0 * A1 * !Y)	-0.00013	-0.00011	-0.00008
	(A0 * A1 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !Y)	0.00066	0.00068	0.00071

Passive power(pJ) for B0N falling (conditional):

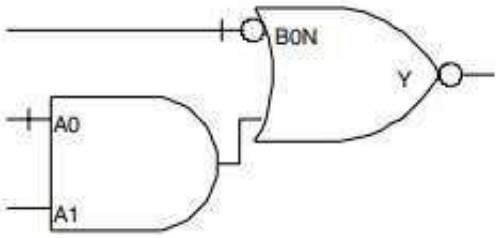
Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX0P7H7H	(A0 * A1 * !Y)	0.00100	0.00102	0.00105
	(A0 * A1 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !Y)	0.00021	0.00023	0.00026

AOI21BX1H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI21B cell provides the logical inverted OR of one AND group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0N	Y
x	x	0	0
0	x	1	1
1	0	1	1
1	1	1	0

Footprint

Cell Name	Area
AOI21BX1H7H	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0N	Y
AOI21BX1H7H	0.00076	0.00086	0.00100	0.01738

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI21BX1H7H	0.00000	0.01958	0.02072

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI21BX1H7H	A0->Y (FR)	0.05969	0.24394	0.77015
	A1->Y (FR)	0.05598	0.23771	0.76432
	B0N->Y (RR)	0.07316	0.23154	0.61520

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI21BX1H7H	A0->Y (RF)	0.04278	0.18636	0.61202
	A1->Y (RF)	0.04121	0.18334	0.62088
	B0N->Y (FF)	0.04680	0.13325	0.32706

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI21BX1H7H	A0	0.00114	0.00117	0.00119
	A0	-0.00011	-0.00011	-0.00010
	A0	0.00009	0.00009	0.00009
	A0	0.00020	0.00021	0.00022
	A1	0.00102	0.00106	0.00109
	A1	-0.00011	-0.00011	-0.00010
	A1	0.00005	0.00006	0.00006
	A1	0.00019	0.00023	0.00026
	B0N	0.00076	0.00082	0.00090
	B0N	-0.00000	-0.00000	0.00000
	B0N	0.00006	0.00006	0.00006
	B0N	0.00122	0.00129	0.00137

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI21BX1H7H	A0	-0.00010	-0.00008	-0.00006
	A0	0.00010	0.00011	0.00011
	A0	-0.00009	-0.00009	-0.00009
	A0	0.00082	0.00086	0.00088
	A1	-0.00011	-0.00008	-0.00006
	A1	0.00010	0.00011	0.00011
	A1	-0.00006	-0.00006	-0.00005
	A1	0.00062	0.00070	0.00073
	B0N	0.00124	0.00131	0.00137
	B0N	-0.00000	0.00000	0.00001
	B0N	-0.00003	-0.00003	-0.00002
	B0N	0.00079	0.00086	0.00093

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX1H7H	(A1 * !B0N * !Y)	-0.00012	-0.00010	-0.00008
	(A1 * !B0N * !Y)	-0.00003	-0.00003	-0.00002
	(A1 * !B0N * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0N * !Y)	0.00025	0.00026	0.00026
	(!A1 * B0N * Y)	-0.00016	-0.00016	-0.00016
	(!A1 * B0N * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0N * Y)	0.00001	0.00001	0.00002
	(!A1 * B0N * Y)	0.00022	0.00022	0.00022
	(!A1 * !B0N * !Y)	-0.00016	-0.00016	-0.00016
	(!A1 * !B0N * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0N * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0N * !Y)	0.00022	0.00022	0.00022

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX1H7H	(A1 * !B0N * !Y)	0.00012	0.00012	0.00012
	(A1 * !B0N * !Y)	0.00002	0.00003	0.00003
	(A1 * !B0N * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0N * !Y)	-0.00025	-0.00025	-0.00025
	(!A1 * B0N * Y)	0.00016	0.00016	0.00017
	(!A1 * B0N * Y)	0.00001	0.00001	0.00001
	(!A1 * B0N * Y)	-0.00002	-0.00001	-0.00001
	(!A1 * B0N * Y)	-0.00022	-0.00021	-0.00020
	(!A1 * !B0N * !Y)	0.00016	0.00016	0.00016
	(!A1 * !B0N * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0N * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0N * !Y)	-0.00022	-0.00021	-0.00020

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX1H7H	(A0 * !B0N * !Y)	-0.00013	-0.00011	-0.00009
	(A0 * !B0N * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0N * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0N * !Y)	0.00026	0.00026	0.00027
	(!A0 * B0N * Y)	-0.00025	-0.00024	-0.00024
	(!A0 * B0N * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0N * Y)	0.00003	0.00003	0.00003
	(!A0 * B0N * Y)	0.00007	0.00007	0.00008
	(!A0 * !B0N * !Y)	-0.00016	-0.00016	-0.00015
	(!A0 * !B0N * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0N * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0N * !Y)	0.00022	0.00023	0.00023

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX1H7H	(A0 * !B0N * !Y)	0.00012	0.00013	0.00013
	(A0 * !B0N * !Y)	0.00002	0.00002	0.00002
	(A0 * !B0N * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0N * !Y)	-0.00026	-0.00026	-0.00026
	(!A0 * B0N * Y)	0.00024	0.00024	0.00025
	(!A0 * B0N * Y)	0.00001	0.00001	0.00001
	(!A0 * B0N * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * B0N * Y)	-0.00008	-0.00007	-0.00007
	(!A0 * !B0N * !Y)	0.00015	0.00016	0.00016
	(!A0 * !B0N * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0N * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0N * !Y)	-0.00023	-0.00022	-0.00021

Passive power(pJ) for B0N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX1H7H	(A0 * A1 * !Y)	-0.00015	-0.00013	-0.00010
	(A0 * A1 * !Y)	0.00006	0.00006	0.00007
	(A0 * A1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !Y)	0.00071	0.00073	0.00076

Passive power(pJ) for B0N falling (conditional):

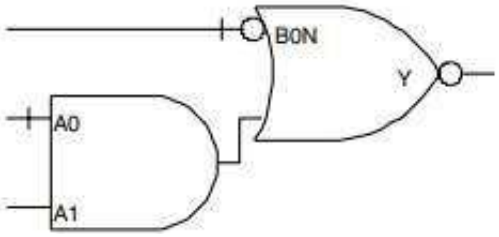
Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX1H7H	(A0 * A1 * !Y)	0.00108	0.00110	0.00113
	(A0 * A1 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * A1 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !Y)	0.00022	0.00024	0.00027

AOI21BX1P4H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI21B cell provides the logical inverted OR of one AND group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0N	Y
x	x	0	0
0	x	1	1
1	0	1	1
1	1	1	0

Footprint

Cell Name	Area
AOI21BX1P4H7H	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0N	Y
AOI21BX1P4H7H	0.00076	0.00087	0.00108	0.01819

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI21BX1P4H7H	0.00000	0.02455	0.02604

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI21BX1P4H7H	A0->Y (FR)	0.05932	0.24547	0.77777
	A1->Y (FR)	0.05590	0.23962	0.77138
	B0N->Y (RR)	0.07190	0.23054	0.61525

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI21BX1P4H7H	A0->Y (RF)	0.04420	0.19209	0.62593
	A1->Y (RF)	0.04274	0.18940	0.63817
	B0N->Y (FF)	0.04421	0.12798	0.31477

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI21BX1P4H7H	A0	0.00119	0.00122	0.00123
	A0	-0.00012	-0.00012	-0.00012
	A0	0.00010	0.00010	0.00010
	A0	0.00023	0.00024	0.00025
	A1	0.00108	0.00111	0.00114
	A1	-0.00012	-0.00012	-0.00012
	A1	0.00006	0.00006	0.00006
	A1	0.00022	0.00026	0.00029
	B0N	0.00079	0.00087	0.00095
	B0N	-0.00000	-0.00000	0.00000
	B0N	0.00006	0.00006	0.00006
	B0N	0.00131	0.00138	0.00147

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI21BX1P4H7H	A0	-0.00010	-0.00007	-0.00006
	A0	0.00012	0.00012	0.00012
	A0	-0.00010	-0.00010	-0.00010
	A0	0.00082	0.00088	0.00090
	A1	-0.00011	-0.00008	-0.00006
	A1	0.00012	0.00012	0.00012
	A1	-0.00006	-0.00006	-0.00006
	A1	0.00068	0.00072	0.00075
	B0N	0.00133	0.00140	0.00147
	B0N	-0.00000	0.00000	0.00000
	B0N	-0.00003	-0.00003	-0.00002
	B0N	0.00083	0.00091	0.00098

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX1P4H7H	(A1 * !B0N * !Y)	-0.00012	-0.00010	-0.00008
	(A1 * !B0N * !Y)	-0.00003	-0.00003	-0.00002
	(A1 * !B0N * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0N * !Y)	0.00025	0.00025	0.00026
	(!A1 * B0N * Y)	-0.00016	-0.00016	-0.00016
	(!A1 * B0N * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0N * Y)	0.00001	0.00001	0.00002
	(!A1 * B0N * Y)	0.00021	0.00022	0.00022
	(!A1 * !B0N * !Y)	-0.00016	-0.00016	-0.00015
	(!A1 * !B0N * !Y)	-0.00002	-0.00001	-0.00001
	(!A1 * !B0N * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0N * !Y)	0.00022	0.00022	0.00022

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX1P4H7H	(A1 * !B0N * !Y)	0.00012	0.00012	0.00012
	(A1 * !B0N * !Y)	0.00002	0.00003	0.00003
	(A1 * !B0N * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0N * !Y)	-0.00025	-0.00025	-0.00025
	(!A1 * B0N * Y)	0.00016	0.00016	0.00017
	(!A1 * B0N * Y)	0.00001	0.00001	0.00001
	(!A1 * B0N * Y)	-0.00002	-0.00001	-0.00001
	(!A1 * B0N * Y)	-0.00022	-0.00021	-0.00019
	(!A1 * !B0N * !Y)	0.00015	0.00016	0.00016
	(!A1 * !B0N * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B0N * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0N * !Y)	-0.00022	-0.00021	-0.00019

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX1P4H7H	(A0 * !B0N * !Y)	-0.00013	-0.00011	-0.00010
	(A0 * !B0N * !Y)	-0.00003	-0.00002	-0.00002
	(A0 * !B0N * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0N * !Y)	0.00026	0.00026	0.00027
	(!A0 * B0N * Y)	-0.00025	-0.00025	-0.00025
	(!A0 * B0N * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0N * Y)	0.00003	0.00003	0.00003
	(!A0 * B0N * Y)	0.00007	0.00007	0.00007
	(!A0 * !B0N * !Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !B0N * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !B0N * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0N * !Y)	0.00022	0.00023	0.00023

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX1P4H7H	(A0 * !B0N * !Y)	0.00012	0.00013	0.00013
	(A0 * !B0N * !Y)	0.00002	0.00002	0.00003
	(A0 * !B0N * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0N * !Y)	-0.00026	-0.00026	-0.00026
	(!A0 * B0N * Y)	0.00025	0.00025	0.00025
	(!A0 * B0N * Y)	0.00001	0.00001	0.00001
	(!A0 * B0N * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * B0N * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !B0N * !Y)	0.00016	0.00016	0.00016
	(!A0 * !B0N * !Y)	0.00001	0.00001	0.00002
	(!A0 * !B0N * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0N * !Y)	-0.00023	-0.00022	-0.00021

Passive power(pJ) for B0N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX1P4H7H	(A0 * A1 * !Y)	-0.00017	-0.00014	-0.00011
	(A0 * A1 * !Y)	0.00007	0.00007	0.00008
	(A0 * A1 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * !Y)	0.00076	0.00079	0.00082

Passive power(pJ) for B0N falling (conditional):

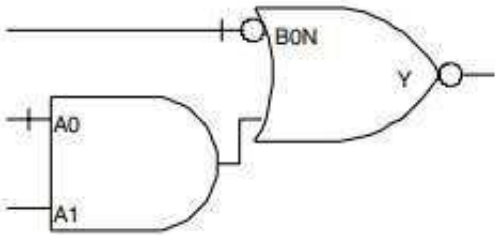
Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX1P4H7H	(A0 * A1 * !Y)	0.00116	0.00118	0.00121
	(A0 * A1 * !Y)	-0.00007	-0.00007	-0.00007
	(A0 * A1 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * !Y)	0.00023	0.00025	0.00028

AOI21BX2H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI21B cell provides the logical inverted OR of one AND group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0N	Y
x	x	0	0
0	x	1	1
1	0	1	1
1	1	1	0

Footprint

Cell Name	Area
AOI21BX2H7H	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0N	Y
AOI21BX2H7H	0.00075	0.00088	0.00125	0.01900

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI21BX2H7H	0.00000	0.03375	0.03602

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI21BX2H7H	A0->Y (FR)	0.05949	0.24744	0.78460
	A1->Y (FR)	0.05663	0.24230	0.78087
	B0N->Y (RR)	0.07190	0.23045	0.61497

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI21BX2H7H	A0->Y (RF)	0.04598	0.19837	0.64331
	A1->Y (RF)	0.04503	0.19617	0.65340
	B0N->Y (FF)	0.04211	0.12272	0.30169

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI21BX2H7H	A0	0.00125	0.00129	0.00130
	A0	-0.00014	-0.00014	-0.00013
	A0	0.00011	0.00011	0.00011
	A0	0.00027	0.00028	0.00030
	A1	0.00115	0.00119	0.00122
	A1	-0.00014	-0.00014	-0.00013
	A1	0.00007	0.00007	0.00007
	A1	0.00026	0.00031	0.00034
	B0N	0.00085	0.00093	0.00103
	B0N	-0.00000	0.00000	0.00001
	B0N	0.00006	0.00006	0.00006
	B0N	0.00149	0.00157	0.00167

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI21BX2H7H	A0	-0.00009	-0.00007	-0.00006
	A0	0.00013	0.00014	0.00014
	A0	-0.00011	-0.00011	-0.00011
	A0	0.00087	0.00091	0.00092
	A1	-0.00011	-0.00008	-0.00006
	A1	0.00013	0.00014	0.00014
	A1	-0.00007	-0.00007	-0.00007
	A1	0.00069	0.00075	0.00078
	B0N	0.00148	0.00156	0.00164
	B0N	0.00000	0.00000	0.00001
	B0N	-0.00003	-0.00003	-0.00002
	B0N	0.00085	0.00094	0.00102

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX2H7H	(A1 * !B0N * !Y)	-0.00012	-0.00010	-0.00008
	(A1 * !B0N * !Y)	-0.00003	-0.00003	-0.00002
	(A1 * !B0N * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0N * !Y)	0.00025	0.00026	0.00026
	(!A1 * B0N * Y)	-0.00015	-0.00015	-0.00015
	(!A1 * B0N * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0N * Y)	0.00001	0.00001	0.00002
	(!A1 * B0N * Y)	0.00022	0.00022	0.00022
	(!A1 * !B0N * !Y)	-0.00015	-0.00015	-0.00015
	(!A1 * !B0N * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0N * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0N * !Y)	0.00022	0.00022	0.00022

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX2H7H	(A1 * !B0N * !Y)	0.00011	0.00012	0.00012
	(A1 * !B0N * !Y)	0.00002	0.00003	0.00003
	(A1 * !B0N * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0N * !Y)	-0.00025	-0.00025	-0.00025
	(!A1 * B0N * Y)	0.00015	0.00016	0.00016
	(!A1 * B0N * Y)	0.00001	0.00001	0.00001
	(!A1 * B0N * Y)	-0.00002	-0.00001	-0.00001
	(!A1 * B0N * Y)	-0.00022	-0.00021	-0.00020
	(!A1 * !B0N * !Y)	0.00015	0.00015	0.00016
	(!A1 * !B0N * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0N * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0N * !Y)	-0.00022	-0.00021	-0.00021

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX2H7H	(A0 * !B0N * !Y)	-0.00013	-0.00012	-0.00010
	(A0 * !B0N * !Y)	-0.00003	-0.00002	-0.00002
	(A0 * !B0N * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0N * !Y)	0.00026	0.00027	0.00027
	(!A0 * B0N * Y)	-0.00025	-0.00025	-0.00025
	(!A0 * B0N * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0N * Y)	0.00002	0.00003	0.00003
	(!A0 * B0N * Y)	0.00007	0.00008	0.00008
	(!A0 * !B0N * !Y)	-0.00017	-0.00016	-0.00016
	(!A0 * !B0N * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0N * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0N * !Y)	0.00023	0.00023	0.00023

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX2H7H	(A0 * !B0N * !Y)	0.00013	0.00013	0.00013
	(A0 * !B0N * !Y)	0.00002	0.00002	0.00003
	(A0 * !B0N * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0N * !Y)	-0.00027	-0.00026	-0.00026
	(!A0 * B0N * Y)	0.00025	0.00025	0.00026
	(!A0 * B0N * Y)	0.00001	0.00001	0.00001
	(!A0 * B0N * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * B0N * Y)	-0.00008	-0.00007	-0.00007
	(!A0 * !B0N * !Y)	0.00016	0.00016	0.00017
	(!A0 * !B0N * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0N * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0N * !Y)	-0.00023	-0.00022	-0.00021

Passive power(pJ) for B0N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX2H7H	(A0 * A1 * !Y)	-0.00020	-0.00017	-0.00013
	(A0 * A1 * !Y)	0.00009	0.00009	0.00009
	(A0 * A1 * !Y)	-0.00005	-0.00005	-0.00004
	(A0 * A1 * !Y)	0.00088	0.00092	0.00095

Passive power(pJ) for B0N falling (conditional):

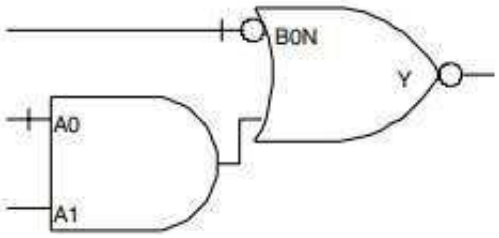
Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX2H7H	(A0 * A1 * !Y)	0.00130	0.00133	0.00136
	(A0 * A1 * !Y)	-0.00009	-0.00009	-0.00009
	(A0 * A1 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * !Y)	0.00021	0.00024	0.00027

AOI21BX3H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI21B cell provides the logical inverted OR of one AND group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0N	Y
x	x	0	0
0	x	1	1
1	0	1	1
1	1	1	0

Footprint

Cell Name	Area
AOI21BX3H7H	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0N	Y
AOI21BX3H7H	0.00083	0.00096	0.00201	0.02579

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI21BX3H7H	0.00000	0.04086	0.04623

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI21BX3H7H	A0->Y (FR)	0.05733	0.24885	0.79611
	A1->Y (FR)	0.05454	0.24412	0.79157
	B0N->Y (RR)	0.07140	0.23085	0.61734

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI21BX3H7H	A0->Y (RF)	0.04814	0.21295	0.68802
	A1->Y (RF)	0.04654	0.20865	0.68963
	B0N->Y (FF)	0.04083	0.11693	0.28457

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI21BX3H7H	A0	0.00172	0.00179	0.00181
	A0	-0.00020	-0.00020	-0.00020
	A0	0.00015	0.00015	0.00015
	A0	0.00057	0.00059	0.00060
	A1	0.00163	0.00167	0.00170
	A1	-0.00020	-0.00020	-0.00020
	A1	0.00010	0.00010	0.00010
	A1	0.00057	0.00061	0.00064
	B0N	0.00124	0.00137	0.00153
	B0N	-0.00000	-0.00000	0.00001
	B0N	0.00008	0.00008	0.00014
	B0N	0.00237	0.00250	0.00266

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI21BX3H7H	A0	-0.00012	-0.00009	-0.00007
	A0	0.00020	0.00020	0.00020
	A0	-0.00015	-0.00015	-0.00015
	A0	0.00102	0.00109	0.00111
	A1	-0.00013	-0.00010	-0.00007
	A1	0.00020	0.00020	0.00020
	A1	-0.00010	-0.00010	-0.00008
	A1	0.00082	0.00089	0.00093
	B0N	0.00236	0.00250	0.00263
	B0N	0.00000	0.00000	0.00001
	B0N	-0.00003	-0.00003	-0.00003
	B0N	0.00125	0.00139	0.00152

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX3H7H	(A1 * !B0N * !Y)	-0.00014	-0.00013	-0.00010
	(A1 * !B0N * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * !B0N * !Y)	0.00000	0.00001	0.00001
	(A1 * !B0N * !Y)	0.00027	0.00028	0.00028
	(!A1 * B0N * Y)	-0.00018	-0.00018	-0.00018
	(!A1 * B0N * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0N * Y)	0.00001	0.00002	0.00002
	(!A1 * B0N * Y)	0.00023	0.00023	0.00024
	(!A1 * !B0N * !Y)	-0.00018	-0.00018	-0.00018
	(!A1 * !B0N * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0N * !Y)	0.00002	0.00002	0.00002
	(!A1 * !B0N * !Y)	0.00023	0.00023	0.00023

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX3H7H	(A1 * !B0N * !Y)	0.00014	0.00014	0.00014
	(A1 * !B0N * !Y)	0.00003	0.00003	0.00003
	(A1 * !B0N * !Y)	-0.00000	-0.00001	-0.00000
	(A1 * !B0N * !Y)	-0.00027	-0.00027	-0.00027
	(!A1 * B0N * Y)	0.00018	0.00019	0.00019
	(!A1 * B0N * Y)	0.00001	0.00001	0.00001
	(!A1 * B0N * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * B0N * Y)	-0.00023	-0.00022	-0.00021
	(!A1 * !B0N * !Y)	0.00018	0.00018	0.00018
	(!A1 * !B0N * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0N * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0N * !Y)	-0.00023	-0.00022	-0.00021

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX3H7H	(A0 * !B0N * !Y)	-0.00015	-0.00014	-0.00012
	(A0 * !B0N * !Y)	-0.00003	-0.00003	-0.00002
	(A0 * !B0N * !Y)	0.00000	0.00001	0.00001
	(A0 * !B0N * !Y)	0.00028	0.00029	0.00029
	(!A0 * B0N * Y)	-0.00029	-0.00028	-0.00028
	(!A0 * B0N * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0N * Y)	0.00003	0.00003	0.00004
	(!A0 * B0N * Y)	0.00007	0.00007	0.00008
	(!A0 * !B0N * !Y)	-0.00019	-0.00019	-0.00018
	(!A0 * !B0N * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !B0N * !Y)	0.00002	0.00002	0.00002
	(!A0 * !B0N * !Y)	0.00024	0.00024	0.00025

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX3H7H	(A0 * !B0N * !Y)	0.00015	0.00015	0.00016
	(A0 * !B0N * !Y)	0.00002	0.00003	0.00003
	(A0 * !B0N * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0N * !Y)	-0.00029	-0.00028	-0.00028
	(!A0 * B0N * Y)	0.00028	0.00028	0.00029
	(!A0 * B0N * Y)	0.00001	0.00001	0.00001
	(!A0 * B0N * Y)	-0.00004	-0.00003	-0.00003
	(!A0 * B0N * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !B0N * !Y)	0.00018	0.00019	0.00019
	(!A0 * !B0N * !Y)	0.00001	0.00001	0.00002
	(!A0 * !B0N * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0N * !Y)	-0.00024	-0.00024	-0.00022

Passive power(pJ) for B0N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX3H7H	(A0 * A1 * !Y)	-0.00031	-0.00026	-0.00020
	(A0 * A1 * !Y)	0.00015	0.00015	0.00015
	(A0 * A1 * !Y)	-0.00007	-0.00007	-0.00007
	(A0 * A1 * !Y)	0.00142	0.00146	0.00152

Passive power(pJ) for B0N falling (conditional):

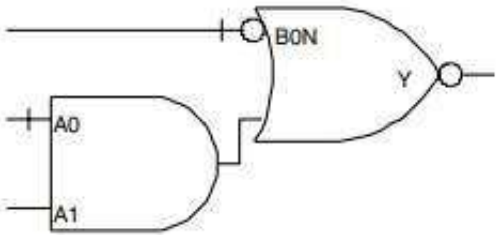
Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX3H7H	(A0 * A1 * !Y)	0.00211	0.00215	0.00221
	(A0 * A1 * !Y)	-0.00014	-0.00014	-0.00014
	(A0 * A1 * !Y)	0.00007	0.00007	0.00007
	(A0 * A1 * !Y)	0.00038	0.00042	0.00049

AOI21BX4H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI21B cell provides the logical inverted OR of one AND group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0N	Y
x	x	0	0
0	x	1	1
1	0	1	1
1	1	1	0

Footprint

Cell Name	Area
AOI21BX4H7H	3.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0N	Y
AOI21BX4H7H	0.00094	0.00108	0.00230	0.03136

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI21BX4H7H	0.00000	0.06730	0.08053

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI21BX4H7H	A0->Y (FR)	0.05357	0.24681	0.79961
	A1->Y (FR)	0.05070	0.24201	0.79463
	B0N->Y (RR)	0.06507	0.22472	0.61169

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI21BX4H7H	A0->Y (RF)	0.04574	0.21382	0.69921
	A1->Y (RF)	0.04391	0.20868	0.69620
	B0N->Y (FF)	0.03677	0.11146	0.27590

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI21BX4H7H	A0	0.00199	0.00207	0.00209
	A0	-0.00027	-0.00026	-0.00026
	A0	0.00019	0.00019	0.00019
	A0	0.00064	0.00066	0.00068
	A1	0.00185	0.00192	0.00196
	A1	-0.00026	-0.00026	-0.00023
	A1	0.00013	0.00013	0.00013
	A1	0.00064	0.00069	0.00072
	B0N	0.00138	0.00153	0.00171
	B0N	-0.00001	-0.00000	0.00000
	B0N	0.00010	0.00010	0.00010
	B0N	0.00267	0.00282	0.00301

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI21BX4H7H	A0	-0.00014	-0.00011	-0.00009
	A0	0.00026	0.00026	0.00027
	A0	-0.00019	-0.00019	-0.00019
	A0	0.00120	0.00127	0.00129
	A1	-0.00016	-0.00012	-0.00008
	A1	0.00023	0.00026	0.00026
	A1	-0.00013	-0.00013	-0.00012
	A1	0.00092	0.00104	0.00108
	B0N	0.00265	0.00282	0.00296
	B0N	0.00000	0.00000	0.00001
	B0N	-0.00004	-0.00004	-0.00004
	B0N	0.00138	0.00154	0.00169

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX4H7H	(A1 * !B0N * !Y)	-0.00016	-0.00015	-0.00013
	(A1 * !B0N * !Y)	-0.00004	-0.00003	-0.00003
	(A1 * !B0N * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0N * !Y)	0.00030	0.00030	0.00031
	(!A1 * B0N * Y)	-0.00021	-0.00021	-0.00021
	(!A1 * B0N * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0N * Y)	0.00002	0.00002	0.00003
	(!A1 * B0N * Y)	0.00025	0.00026	0.00026
	(!A1 * !B0N * !Y)	-0.00021	-0.00021	-0.00020
	(!A1 * !B0N * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0N * !Y)	0.00002	0.00002	0.00003
	(!A1 * !B0N * !Y)	0.00025	0.00025	0.00025

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX4H7H	(A1 * !B0N * !Y)	0.00016	0.00016	0.00017
	(A1 * !B0N * !Y)	0.00003	0.00004	0.00004
	(A1 * !B0N * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0N * !Y)	-0.00030	-0.00030	-0.00029
	(!A1 * B0N * Y)	0.00021	0.00021	0.00022
	(!A1 * B0N * Y)	0.00001	0.00001	0.00002
	(!A1 * B0N * Y)	-0.00003	-0.00002	-0.00002
	(!A1 * B0N * Y)	-0.00026	-0.00024	-0.00022
	(!A1 * !B0N * !Y)	0.00020	0.00021	0.00021
	(!A1 * !B0N * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B0N * !Y)	-0.00003	-0.00002	-0.00002
	(!A1 * !B0N * !Y)	-0.00025	-0.00024	-0.00023

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX4H7H	(A0 * !B0N * !Y)	-0.00018	-0.00016	-0.00014
	(A0 * !B0N * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * !B0N * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0N * !Y)	0.00030	0.00031	0.00031
	(!A0 * B0N * Y)	-0.00032	-0.00032	-0.00032
	(!A0 * B0N * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0N * Y)	0.00003	0.00004	0.00005
	(!A0 * B0N * Y)	0.00007	0.00007	0.00008
	(!A0 * !B0N * !Y)	-0.00023	-0.00022	-0.00022
	(!A0 * !B0N * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0N * !Y)	0.00002	0.00002	0.00002
	(!A0 * !B0N * !Y)	0.00026	0.00026	0.00026

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX4H7H	(A0 * !B0N * !Y)	0.00018	0.00018	0.00018
	(A0 * !B0N * !Y)	0.00003	0.00003	0.00003
	(A0 * !B0N * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0N * !Y)	-0.00030	-0.00030	-0.00030
	(!A0 * B0N * Y)	0.00032	0.00032	0.00033
	(!A0 * B0N * Y)	0.00001	0.00001	0.00001
	(!A0 * B0N * Y)	-0.00004	-0.00003	-0.00003
	(!A0 * B0N * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !B0N * !Y)	0.00022	0.00022	0.00023
	(!A0 * !B0N * !Y)	0.00001	0.00001	0.00002
	(!A0 * !B0N * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0N * !Y)	-0.00026	-0.00025	-0.00023

Passive power(pJ) for B0N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX4H7H	(A0 * A1 * !Y)	-0.00038	-0.00033	-0.00026
	(A0 * A1 * !Y)	0.00019	0.00019	0.00019
	(A0 * A1 * !Y)	-0.00009	-0.00009	-0.00009
	(A0 * A1 * !Y)	0.00162	0.00168	0.00175

Passive power(pJ) for B0N falling (conditional):

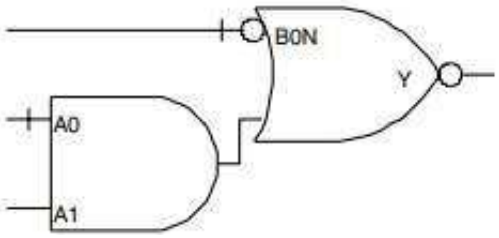
Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX4H7H	(A0 * A1 * !Y)	0.00239	0.00244	0.00252
	(A0 * A1 * !Y)	-0.00019	-0.00019	-0.00018
	(A0 * A1 * !Y)	0.00009	0.00009	0.00009
	(A0 * A1 * !Y)	0.00039	0.00044	0.00052

AOI21BX6H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI21B cell provides the logical inverted OR of one AND group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0N	Y
x	x	0	0
0	x	1	1
1	0	1	1
1	1	1	0

Footprint

Cell Name	Area
AOI21BX6H7H	4.20000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0N	Y
AOI21BX6H7H	0.00106	0.00117	0.00338	0.03860

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI21BX6H7H	0.00000	0.09997	0.12085

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI21BX6H7H	A0->Y (FR)	0.05371	0.24963	0.80905
	A1->Y (FR)	0.05062	0.24486	0.80527
	B0N->Y (RR)	0.06697	0.22619	0.61205

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI21BX6H7H	A0->Y (RF)	0.04920	0.22498	0.72862
	A1->Y (RF)	0.04699	0.21931	0.72330
	B0N->Y (FF)	0.03469	0.10481	0.25732

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI21BX6H7H	A0	0.00259	0.00267	0.00269
	A0	-0.00039	-0.00038	-0.00038
	A0	0.00025	0.00026	0.00026
	A0	0.00094	0.00096	0.00098
	A1	0.00244	0.00249	0.00253
	A1	-0.00039	-0.00038	-0.00038
	A1	0.00018	0.00018	0.00019
	A1	0.00094	0.00099	0.00103
	B0N	0.00183	0.00204	0.00232
	B0N	-0.00000	-0.00000	0.00000
	B0N	0.00012	0.00012	0.00012
	B0N	0.00387	0.00408	0.00435

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI21BX6H7H	A0	-0.00016	-0.00012	-0.00010
	A0	0.00038	0.00038	0.00039
	A0	-0.00026	-0.00026	-0.00025
	A0	0.00148	0.00153	0.00156
	A1	-0.00018	-0.00013	-0.00010
	A1	0.00038	0.00038	0.00039
	A1	-0.00018	-0.00018	-0.00015
	A1	0.00114	0.00126	0.00131
	B0N	0.00384	0.00408	0.00429
	B0N	0.00000	0.00000	0.00011
	B0N	-0.00005	-0.00005	-0.00003
	B0N	0.00184	0.00208	0.00230

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX6H7H	(A1 * !B0N * !Y)	-0.00020	-0.00018	-0.00015
	(A1 * !B0N * !Y)	-0.00005	-0.00004	-0.00004
	(A1 * !B0N * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0N * !Y)	0.00032	0.00032	0.00033
	(!A1 * B0N * Y)	-0.00025	-0.00025	-0.00025
	(!A1 * B0N * Y)	-0.00002	-0.00001	-0.00001
	(!A1 * B0N * Y)	0.00001	0.00002	0.00002
	(!A1 * B0N * Y)	0.00028	0.00028	0.00029
	(!A1 * !B0N * !Y)	-0.00025	-0.00025	-0.00024
	(!A1 * !B0N * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0N * !Y)	0.00002	0.00002	0.00002
	(!A1 * !B0N * !Y)	0.00027	0.00027	0.00028

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX6H7H	(A1 * !B0N * !Y)	0.00019	0.00019	0.00020
	(A1 * !B0N * !Y)	0.00004	0.00005	0.00005
	(A1 * !B0N * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0N * !Y)	-0.00032	-0.00032	-0.00032
	(!A1 * B0N * Y)	0.00025	0.00025	0.00026
	(!A1 * B0N * Y)	0.00001	0.00001	0.00002
	(!A1 * B0N * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * B0N * Y)	-0.00028	-0.00026	-0.00024
	(!A1 * !B0N * !Y)	0.00024	0.00025	0.00025
	(!A1 * !B0N * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B0N * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0N * !Y)	-0.00028	-0.00026	-0.00025

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX6H7H	(A0 * !B0N * !Y)	-0.00021	-0.00019	-0.00017
	(A0 * !B0N * !Y)	-0.00004	-0.00004	-0.00003
	(A0 * !B0N * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0N * !Y)	0.00032	0.00032	0.00032
	(!A0 * B0N * Y)	-0.00036	-0.00036	-0.00035
	(!A0 * B0N * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * B0N * Y)	0.00004	0.00004	0.00005
	(!A0 * B0N * Y)	0.00007	0.00008	0.00008
	(!A0 * !B0N * !Y)	-0.00026	-0.00026	-0.00025
	(!A0 * !B0N * !Y)	-0.00002	-0.00001	-0.00000
	(!A0 * !B0N * !Y)	0.00002	0.00002	0.00002
	(!A0 * !B0N * !Y)	0.00027	0.00027	0.00027

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX6H7H	(A0 * !B0N * !Y)	0.00021	0.00021	0.00021
	(A0 * !B0N * !Y)	0.00003	0.00004	0.00004
	(A0 * !B0N * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0N * !Y)	-0.00032	-0.00032	-0.00032
	(!A0 * B0N * Y)	0.00035	0.00036	0.00036
	(!A0 * B0N * Y)	0.00001	0.00002	0.00002
	(!A0 * B0N * Y)	-0.00005	-0.00004	-0.00004
	(!A0 * B0N * Y)	-0.00007	-0.00007	-0.00006
	(!A0 * !B0N * !Y)	0.00025	0.00026	0.00026
	(!A0 * !B0N * !Y)	0.00001	0.00002	0.00002
	(!A0 * !B0N * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0N * !Y)	-0.00027	-0.00026	-0.00024

Passive power(pJ) for B0N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX6H7H	(A0 * A1 * !Y)	-0.00057	-0.00048	-0.00039
	(A0 * A1 * !Y)	0.00029	0.00029	0.00029
	(A0 * A1 * !Y)	-0.00014	-0.00014	-0.00013
	(A0 * A1 * !Y)	0.00237	0.00245	0.00255

Passive power(pJ) for B0N falling (conditional):

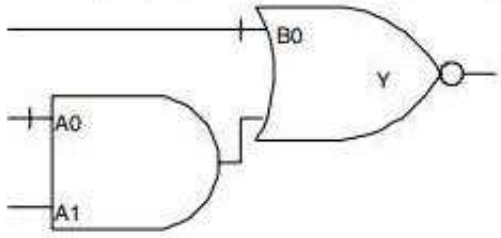
Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX6H7H	(A0 * A1 * !Y)	0.00345	0.00352	0.00365
	(A0 * A1 * !Y)	-0.00029	-0.00028	-0.00028
	(A0 * A1 * !Y)	0.00014	0.00014	0.00014
	(A0 * A1 * !Y)	0.00052	0.00059	0.00071

AOI21X0P5H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI21 cell provides the logical inverted OR of one AND group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0	Y
0	x	0	1
x	x	1	0
1	0	0	1
1	1	x	0

Footprint

Cell Name	Area
AOI21X0P5H7H	1.40000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	Y
AOI21X0P5H7H	0.00077	0.00087	0.00092	0.01512

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI21X0P5H7H	0.00000	0.00858	0.00948

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI21X0P5H7H	A0->Y (FR)	0.06182	0.24077	0.74919
	A1->Y (FR)	0.05706	0.23336	0.74187
	B0->Y (FR)	0.05391	0.22587	0.73190

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI21X0P5H7H	A0->Y (RF)	0.04034	0.17237	0.56879
	A1->Y (RF)	0.03838	0.16879	0.57984
	B0->Y (RF)	0.01914	0.11203	0.44232

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI21X0P5H7H	A0	0.00108	0.00111	0.00112
	A0	-0.00008	-0.00008	-0.00008
	A0	0.00008	0.00008	0.00008
	A0	-0.00008	-0.00007	-0.00005
	A1	0.00095	0.00099	0.00102
	A1	-0.00008	-0.00008	-0.00008
	A1	0.00004	0.00005	0.00005
	A1	-0.00006	-0.00002	0.00001
	B0	0.00078	0.00081	0.00085
	B0	-0.00002	-0.00002	-0.00001
	B0	0.00008	0.00008	0.00008
	B0	-0.00013	-0.00010	-0.00006

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI21X0P5H7H	A0	-0.00010	-0.00008	-0.00006
	A0	0.00008	0.00008	0.00008
	A0	-0.00008	-0.00008	-0.00008
	A0	0.00102	0.00106	0.00108
	A1	-0.00011	-0.00008	-0.00006
	A1	0.00008	0.00008	0.00008
	A1	-0.00005	-0.00005	-0.00004
	A1	0.00083	0.00087	0.00089
	B0	-0.00014	-0.00010	-0.00007
	B0	0.00002	0.00002	0.00002
	B0	-0.00005	-0.00005	-0.00004
	B0	0.00080	0.00083	0.00086

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X0P5H7H	(A1 * B0 * !Y)	-0.00011	-0.00009	-0.00007
	(A1 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !Y)	0.00026	0.00026	0.00027
	(!A1 * B0 * !Y)	-0.00016	-0.00016	-0.00016
	(!A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !Y)	0.00023	0.00023	0.00023
	(!A1 * !B0 * Y)	-0.00016	-0.00016	-0.00016
	(!A1 * !B0 * Y)	-0.00001	-0.00001	0.00000
	(!A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * Y)	0.00023	0.00023	0.00023

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X0P5H7H	(A1 * B0 * !Y)	0.00011	0.00011	0.00011
	(A1 * B0 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !Y)	-0.00026	-0.00026	-0.00026
	(!A1 * B0 * !Y)	0.00016	0.00016	0.00016
	(!A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !Y)	-0.00023	-0.00022	-0.00021
	(!A1 * !B0 * Y)	0.00016	0.00016	0.00017
	(!A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * Y)	-0.00023	-0.00022	-0.00021

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X0P5H7H	(A0 * B0 * !Y)	-0.00010	-0.00008	-0.00006
	(A0 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !Y)	0.00026	0.00026	0.00026
	(!A0 * B0 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * !Y)	0.00022	0.00022	0.00022
	(!A0 * !B0 * Y)	-0.00023	-0.00023	-0.00023
	(!A0 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !B0 * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X0P5H7H	(A0 * B0 * !Y)	0.00010	0.00010	0.00010
	(A0 * B0 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !Y)	-0.00026	-0.00026	-0.00025
	(!A0 * B0 * !Y)	0.00013	0.00013	0.00014
	(!A0 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !Y)	-0.00022	-0.00021	-0.00020
	(!A0 * !B0 * Y)	0.00023	0.00023	0.00023
	(!A0 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !B0 * Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X0P5H7H	(A0 * A1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !Y)	0.00034	0.00034	0.00034

Passive power(pJ) for B0 falling (conditional):

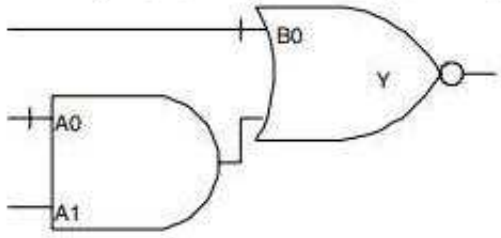
Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X0P5H7H	(A0 * A1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !Y)	-0.00034	-0.00034	-0.00034

AOI21X0P7H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI21 cell provides the logical inverted OR of one AND group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0	Y
0	x	0	1
x	x	1	0
1	0	0	1
1	1	x	0

Footprint

Cell Name	Area
AOI21X0P7H7H	1.40000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	Y
AOI21X0P7H7H	0.00082	0.00091	0.00097	0.01727

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI21X0P7H7H	0.00000	0.00980	0.01226

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI21X0P7H7H	A0->Y (FR)	0.05726	0.23711	0.74974
	A1->Y (FR)	0.05257	0.22978	0.74251
	B0->Y (FR)	0.04953	0.22268	0.73329

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI21X0P7H7H	A0->Y (RF)	0.03805	0.17270	0.57864
	A1->Y (RF)	0.03591	0.16775	0.58444
	B0->Y (RF)	0.01794	0.11163	0.44747

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI21X0P7H7H	A0	0.00115	0.00118	0.00120
	A0	-0.00010	-0.00010	-0.00010
	A0	0.00010	0.00010	0.00010
	A0	-0.00009	-0.00008	-0.00006
	A1	0.00101	0.00105	0.00108
	A1	-0.00010	-0.00010	-0.00010
	A1	0.00005	0.00005	0.00005
	A1	-0.00007	-0.00003	0.00000
	B0	0.00083	0.00087	0.00091
	B0	-0.00002	-0.00002	-0.00002
	B0	0.00010	0.00010	0.00010
	B0	-0.00014	-0.00010	-0.00007

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI21X0P7H7H	A0	-0.00011	-0.00009	-0.00007
	A0	0.00010	0.00010	0.00010
	A0	-0.00010	-0.00010	-0.00010
	A0	0.00110	0.00114	0.00116
	A1	-0.00012	-0.00009	-0.00007
	A1	0.00010	0.00010	0.00010
	A1	-0.00005	-0.00005	-0.00005
	A1	0.00087	0.00092	0.00095
	B0	-0.00015	-0.00011	-0.00008
	B0	0.00002	0.00002	0.00003
	B0	-0.00005	-0.00005	-0.00005
	B0	0.00085	0.00088	0.00092

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X0P7H7H	(A1 * B0 * !Y)	-0.00012	-0.00010	-0.00008
	(A1 * B0 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * !Y)	0.00000	0.00000	0.00001
	(A1 * B0 * !Y)	0.00027	0.00027	0.00028
	(!A1 * B0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !Y)	0.00001	0.00002	0.00002
	(!A1 * B0 * !Y)	0.00023	0.00023	0.00023
	(!A1 * !B0 * Y)	-0.00017	-0.00017	-0.00017
	(!A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * Y)	0.00023	0.00023	0.00024

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X0P7H7H	(A1 * B0 * !Y)	0.00012	0.00012	0.00012
	(A1 * B0 * !Y)	0.00003	0.00003	0.00003
	(A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !Y)	-0.00027	-0.00027	-0.00027
	(!A1 * B0 * !Y)	0.00017	0.00017	0.00017
	(!A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * B0 * !Y)	-0.00023	-0.00022	-0.00022
	(!A1 * !B0 * Y)	0.00017	0.00017	0.00018
	(!A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * Y)	-0.00023	-0.00022	-0.00021

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X0P7H7H	(A0 * B0 * !Y)	-0.00011	-0.00009	-0.00007
	(A0 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !Y)	0.00000	0.00000	0.00001
	(A0 * B0 * !Y)	0.00026	0.00026	0.00027
	(!A0 * B0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A0 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * B0 * !Y)	0.00022	0.00022	0.00023
	(!A0 * !B0 * Y)	-0.00025	-0.00025	-0.00025
	(!A0 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !B0 * Y)	0.00005	0.00005	0.00006

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X0P7H7H	(A0 * B0 * !Y)	0.00011	0.00011	0.00011
	(A0 * B0 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !Y)	-0.00026	-0.00026	-0.00026
	(!A0 * B0 * !Y)	0.00015	0.00015	0.00015
	(!A0 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * B0 * !Y)	-0.00023	-0.00022	-0.00021
	(!A0 * !B0 * Y)	0.00025	0.00025	0.00025
	(!A0 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !B0 * Y)	-0.00005	-0.00005	-0.00005

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X0P7H7H	(A0 * A1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !Y)	-0.00004	-0.00003	-0.00003
	(A0 * A1 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !Y)	0.00035	0.00035	0.00036

Passive power(pJ) for B0 falling (conditional):

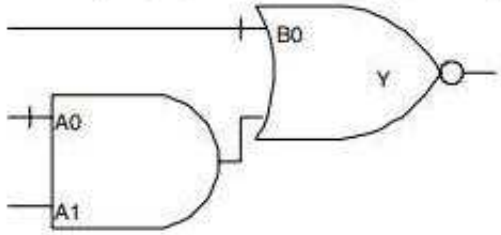
Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X0P7H7H	(A0 * A1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !Y)	-0.00035	-0.00035	-0.00035

AOI21X1H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI21 cell provides the logical inverted OR of one AND group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0	Y
0	x	0	1
x	x	1	0
1	0	0	1
1	1	x	0

Footprint

Cell Name	Area
AOI21X1H7H	1.40000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	Y
AOI21X1H7H	0.00089	0.00100	0.00106	0.02068

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI21X1H7H	0.00000	0.01261	0.02128

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI21X1H7H	A0->Y (FR)	0.05219	0.23294	0.75035
	A1->Y (FR)	0.04772	0.22587	0.74321
	B0->Y (FR)	0.04530	0.21954	0.73563

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI21X1H7H	A0->Y (RF)	0.03623	0.17518	0.59369
	A1->Y (RF)	0.03397	0.16936	0.59728
	B0->Y (RF)	0.01720	0.11317	0.45840

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI21X1H7H	A0	0.00129	0.00131	0.00133
	A0	-0.00012	-0.00012	-0.00011
	A0	0.00011	0.00011	0.00011
	A0	-0.00011	-0.00009	-0.00007
	A1	0.00113	0.00117	0.00120
	A1	-0.00012	-0.00012	-0.00012
	A1	0.00006	0.00006	0.00006
	A1	-0.00008	-0.00004	-0.00001
	B0	0.00092	0.00096	0.00100
	B0	-0.00003	-0.00003	-0.00002
	B0	0.00011	0.00011	0.00011
	B0	-0.00015	-0.00011	-0.00007

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI21X1H7H	A0	-0.00013	-0.00010	-0.00008
	A0	0.00011	0.00012	0.00012
	A0	-0.00011	-0.00011	-0.00011
	A0	0.00120	0.00126	0.00128
	A1	-0.00014	-0.00011	-0.00008
	A1	0.00012	0.00012	0.00012
	A1	-0.00006	-0.00006	-0.00006
	A1	0.00099	0.00103	0.00106
	B0	-0.00016	-0.00012	-0.00008
	B0	0.00002	0.00003	0.00004
	B0	-0.00006	-0.00006	-0.00006
	B0	0.00091	0.00098	0.00102

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X1H7H	(A1 * B0 * !Y)	-0.00014	-0.00012	-0.00009
	(A1 * B0 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !Y)	0.00028	0.00028	0.00028
	(!A1 * B0 * !Y)	-0.00020	-0.00020	-0.00020
	(!A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * !Y)	0.00024	0.00024	0.00024
	(!A1 * !B0 * Y)	-0.00020	-0.00020	-0.00020
	(!A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * Y)	0.00024	0.00024	0.00024

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X1H7H	(A1 * B0 * !Y)	0.00014	0.00014	0.00014
	(A1 * B0 * !Y)	0.00003	0.00003	0.00003
	(A1 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !Y)	-0.00028	-0.00028	-0.00028
	(!A1 * B0 * !Y)	0.00020	0.00020	0.00020
	(!A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * !Y)	-0.00024	-0.00023	-0.00022
	(!A1 * !B0 * Y)	0.00020	0.00020	0.00021
	(!A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * Y)	-0.00024	-0.00023	-0.00022

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X1H7H	(A0 * B0 * !Y)	-0.00013	-0.00011	-0.00009
	(A0 * B0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * !Y)	0.00000	0.00001	0.00001
	(A0 * B0 * !Y)	0.00027	0.00028	0.00028
	(!A0 * B0 * !Y)	-0.00018	-0.00018	-0.00018
	(!A0 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * B0 * !Y)	0.00023	0.00023	0.00024
	(!A0 * !B0 * Y)	-0.00028	-0.00028	-0.00028
	(!A0 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !B0 * Y)	0.00005	0.00006	0.00006

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X1H7H	(A0 * B0 * !Y)	0.00013	0.00013	0.00013
	(A0 * B0 * !Y)	0.00003	0.00003	0.00003
	(A0 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * !Y)	-0.00027	-0.00027	-0.00027
	(!A0 * B0 * !Y)	0.00018	0.00018	0.00018
	(!A0 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * B0 * !Y)	-0.00024	-0.00023	-0.00022
	(!A0 * !B0 * Y)	0.00028	0.00028	0.00028
	(!A0 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !B0 * Y)	-0.00006	-0.00006	-0.00005

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X1H7H	(A0 * A1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !Y)	0.00038	0.00038	0.00038

Passive power(pJ) for B0 falling (conditional):

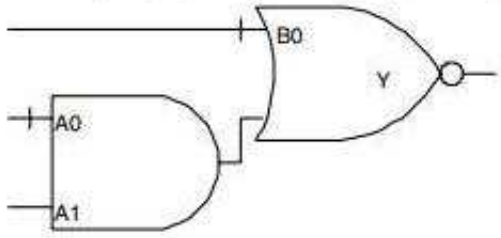
Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X1H7H	(A0 * A1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !Y)	-0.00038	-0.00038	-0.00037

AOI21X1P4H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI21 cell provides the logical inverted OR of one AND group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0	Y
0	x	0	1
x	x	1	0
1	0	0	1
1	1	x	0

Footprint

Cell Name	Area
AOI21X1P4H7H	1.40000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	Y
AOI21X1P4H7H	0.00095	0.00107	0.00113	0.02352

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI21X1P4H7H	0.00000	0.01630	0.03237

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI21X1P4H7H	A0->Y (FR)	0.04950	0.23084	0.75131
	A1->Y (FR)	0.04502	0.22371	0.74399
	B0->Y (FR)	0.04290	0.21802	0.73701

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI21X1P4H7H	A0->Y (RF)	0.03469	0.17483	0.59893
	A1->Y (RF)	0.03233	0.16844	0.59961
	B0->Y (RF)	0.01655	0.11316	0.46229

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI21X1P4H7H	A0	0.00141	0.00144	0.00146
	A0	-0.00014	-0.00014	-0.00014
	A0	0.00013	0.00013	0.00013
	A0	-0.00011	-0.00009	-0.00008
	A1	0.00123	0.00127	0.00131
	A1	-0.00014	-0.00014	-0.00014
	A1	0.00007	0.00007	0.00007
	A1	-0.00010	-0.00006	-0.00002
	B0	0.00100	0.00105	0.00111
	B0	-0.00004	-0.00003	-0.00003
	B0	0.00013	0.00013	0.00013
	B0	-0.00016	-0.00011	-0.00007

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI21X1P4H7H	A0	-0.00014	-0.00012	-0.00009
	A0	0.00014	0.00014	0.00014
	A0	-0.00013	-0.00013	-0.00013
	A0	0.00131	0.00137	0.00140
	A1	-0.00016	-0.00012	-0.00009
	A1	0.00014	0.00014	0.00014
	A1	-0.00007	-0.00007	-0.00007
	A1	0.00108	0.00112	0.00116
	B0	-0.00018	-0.00013	-0.00009
	B0	0.00003	0.00004	0.00005
	B0	-0.00007	-0.00007	-0.00007
	B0	0.00103	0.00107	0.00111

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X1P4H7H	(A1 * B0 * !Y)	-0.00016	-0.00014	-0.00010
	(A1 * B0 * !Y)	-0.00004	-0.00003	-0.00003
	(A1 * B0 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !Y)	0.00029	0.00029	0.00029
	(!A1 * B0 * !Y)	-0.00022	-0.00022	-0.00022
	(!A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * !Y)	0.00025	0.00025	0.00025
	(!A1 * !B0 * Y)	-0.00022	-0.00022	-0.00022
	(!A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * Y)	0.00025	0.00025	0.00025

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X1P4H7H	(A1 * B0 * !Y)	0.00016	0.00016	0.00016
	(A1 * B0 * !Y)	0.00003	0.00003	0.00004
	(A1 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !Y)	-0.00029	-0.00029	-0.00029
	(!A1 * B0 * !Y)	0.00022	0.00022	0.00022
	(!A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * !Y)	-0.00025	-0.00024	-0.00023
	(!A1 * !B0 * Y)	0.00022	0.00022	0.00023
	(!A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * Y)	-0.00025	-0.00024	-0.00022

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X1P4H7H	(A0 * B0 * !Y)	-0.00015	-0.00013	-0.00010
	(A0 * B0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !Y)	0.00030	0.00030	0.00030
	(!A0 * B0 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * B0 * !Y)	0.00025	0.00026	0.00026
	(!A0 * !B0 * Y)	-0.00031	-0.00031	-0.00030
	(!A0 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !B0 * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X1P4H7H	(A0 * B0 * !Y)	0.00014	0.00015	0.00015
	(A0 * B0 * !Y)	0.00003	0.00003	0.00003
	(A0 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !Y)	-0.00030	-0.00030	-0.00030
	(!A0 * B0 * !Y)	0.00020	0.00020	0.00020
	(!A0 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * B0 * !Y)	-0.00026	-0.00025	-0.00023
	(!A0 * !B0 * Y)	0.00031	0.00031	0.00031
	(!A0 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !B0 * Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X1P4H7H	(A0 * A1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !Y)	-0.00005	-0.00005	-0.00004
	(A0 * A1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !Y)	0.00040	0.00041	0.00041

Passive power(pJ) for B0 falling (conditional):

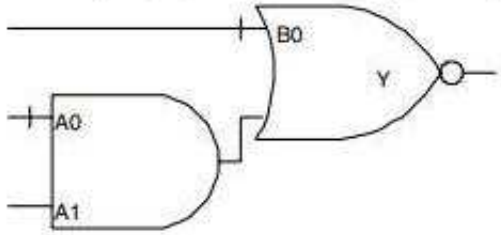
Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X1P4H7H	(A0 * A1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !Y)	-0.00041	-0.00040	-0.00040

AOI21X2H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI21 cell provides the logical inverted OR of one AND group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0	Y
0	x	0	1
x	x	1	0
1	0	0	1
1	1	x	0

Footprint

Cell Name	Area
AOI21X2H7H	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	Y
AOI21X2H7H	0.00107	0.00118	0.00122	0.02720

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI21X2H7H	0.00000	0.02304	0.05180

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI21X2H7H	A0->Y (FR)	0.04671	0.22907	0.75324
	A1->Y (FR)	0.04198	0.22155	0.74542
	B0->Y (FR)	0.03988	0.21599	0.73913

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI21X2H7H	A0->Y (RF)	0.03223	0.17095	0.59278
	A1->Y (RF)	0.02965	0.16394	0.59206
	B0->Y (RF)	0.01534	0.11089	0.45989

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI21X2H7H	A0	0.00156	0.00160	0.00162
	A0	-0.00017	-0.00017	-0.00016
	A0	0.00016	0.00016	0.00016
	A0	-0.00016	-0.00014	-0.00012
	A1	0.00135	0.00140	0.00144
	A1	-0.00017	-0.00017	-0.00016
	A1	0.00009	0.00009	0.00009
	A1	-0.00013	-0.00009	-0.00005
	B0	0.00109	0.00115	0.00121
	B0	-0.00004	-0.00004	-0.00003
	B0	0.00016	0.00016	0.00016
	B0	-0.00018	-0.00013	-0.00008

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI21X2H7H	A0	-0.00017	-0.00014	-0.00011
	A0	0.00016	0.00017	0.00017
	A0	-0.00016	-0.00016	-0.00016
	A0	0.00145	0.00154	0.00157
	A1	-0.00018	-0.00014	-0.00011
	A1	0.00016	0.00017	0.00017
	A1	-0.00009	-0.00009	-0.00009
	A1	0.00118	0.00124	0.00129
	B0	-0.00020	-0.00015	-0.00010
	B0	0.00003	0.00004	0.00006
	B0	-0.00009	-0.00009	-0.00008
	B0	0.00112	0.00117	0.00121

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X2H7H	(A1 * B0 * !Y)	-0.00018	-0.00016	-0.00012
	(A1 * B0 * !Y)	-0.00004	-0.00004	-0.00004
	(A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !Y)	0.00032	0.00032	0.00032
	(!A1 * B0 * !Y)	-0.00025	-0.00025	-0.00025
	(!A1 * B0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * B0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * !Y)	0.00027	0.00027	0.00027
	(!A1 * !B0 * Y)	-0.00025	-0.00025	-0.00025
	(!A1 * !B0 * Y)	-0.00002	-0.00001	-0.00001
	(!A1 * !B0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * Y)	0.00028	0.00028	0.00028

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X2H7H	(A1 * B0 * !Y)	0.00018	0.00018	0.00018
	(A1 * B0 * !Y)	0.00004	0.00004	0.00004
	(A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !Y)	-0.00032	-0.00032	-0.00032
	(!A1 * B0 * !Y)	0.00025	0.00025	0.00025
	(!A1 * B0 * !Y)	0.00001	0.00002	0.00002
	(!A1 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * !Y)	-0.00027	-0.00026	-0.00025
	(!A1 * !B0 * Y)	0.00025	0.00026	0.00026
	(!A1 * !B0 * Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * Y)	-0.00027	-0.00026	-0.00024

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X2H7H	(A0 * B0 * !Y)	-0.00017	-0.00015	-0.00012
	(A0 * B0 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !Y)	0.00031	0.00031	0.00031
	(!A0 * B0 * !Y)	-0.00023	-0.00023	-0.00023
	(!A0 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * B0 * !Y)	0.00026	0.00026	0.00027
	(!A0 * !B0 * Y)	-0.00035	-0.00035	-0.00034
	(!A0 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * Y)	0.00004	0.00005	0.00005
	(!A0 * !B0 * Y)	0.00005	0.00005	0.00005

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X2H7H	(A0 * B0 * !Y)	0.00017	0.00017	0.00017
	(A0 * B0 * !Y)	0.00004	0.00004	0.00004
	(A0 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !Y)	-0.00031	-0.00031	-0.00031
	(!A0 * B0 * !Y)	0.00023	0.00023	0.00023
	(!A0 * B0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * B0 * !Y)	-0.00027	-0.00026	-0.00024
	(!A0 * !B0 * Y)	0.00034	0.00035	0.00035
	(!A0 * !B0 * Y)	0.00001	0.00002	0.00002
	(!A0 * !B0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !B0 * Y)	-0.00005	-0.00005	-0.00005

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X2H7H	(A0 * A1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !Y)	0.00042	0.00042	0.00042

Passive power(pJ) for B0 falling (conditional):

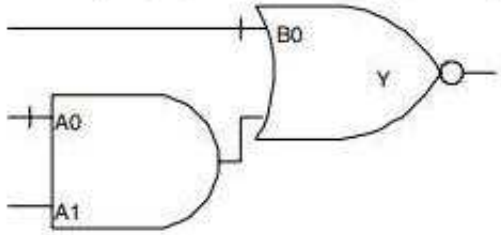
Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X2H7H	(A0 * A1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !Y)	0.00006	0.00006	0.00006
	(A0 * A1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !Y)	-0.00042	-0.00042	-0.00041

AOI21X3H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI21 cell provides the logical inverted OR of one AND group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0	Y
0	x	0	1
x	x	1	0
1	0	0	1
1	1	x	0

Footprint

Cell Name	Area
AOI21X3H7H	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	Y
AOI21X3H7H	0.00179	0.00192	0.00201	0.04312

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI21X3H7H	0.00000	0.02818	0.05166

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI21X3H7H	A0->Y (FR)	0.04847	0.23014	0.75268
	A1->Y (FR)	0.04113	0.22002	0.74326
	B0->Y (FR)	0.04002	0.21575	0.73709

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI21X3H7H	A0->Y (RF)	0.03284	0.17254	0.59493
	A1->Y (RF)	0.02890	0.16358	0.59433
	B0->Y (RF)	0.01485	0.10921	0.45681

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI21X3H7H	A0	0.00273	0.00281	0.00286
	A0	-0.00025	-0.00025	-0.00025
	A0	0.00024	0.00024	0.00024
	A0	-0.00015	-0.00010	-0.00006
	A1	0.00231	0.00238	0.00246
	A1	-0.00025	-0.00025	-0.00025
	A1	0.00013	0.00013	0.00014
	A1	-0.00019	-0.00010	-0.00003
	B0	0.00194	0.00203	0.00213
	B0	-0.00006	-0.00006	-0.00004
	B0	0.00024	0.00024	0.00024
	B0	-0.00028	-0.00020	-0.00011

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI21X3H7H	A0	-0.00026	-0.00021	-0.00017
	A0	0.00025	0.00025	0.00025
	A0	-0.00024	-0.00024	-0.00024
	A0	0.00258	0.00266	0.00270
	A1	-0.00029	-0.00022	-0.00017
	A1	0.00025	0.00025	0.00025
	A1	-0.00013	-0.00013	-0.00013
	A1	0.00203	0.00211	0.00218
	B0	-0.00030	-0.00020	-0.00013
	B0	0.00006	0.00006	0.00007
	B0	-0.00014	-0.00013	-0.00013
	B0	0.00203	0.00211	0.00219

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X3H7H	(A1 * B0 * !Y)	-0.00027	-0.00024	-0.00019
	(A1 * B0 * !Y)	-0.00006	-0.00006	-0.00006
	(A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !Y)	0.00061	0.00062	0.00063
	(!A1 * B0 * !Y)	-0.00037	-0.00037	-0.00037
	(!A1 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * !Y)	0.00003	0.00004	0.00005
	(!A1 * B0 * !Y)	0.00050	0.00051	0.00052
	(!A1 * !B0 * Y)	-0.00038	-0.00038	-0.00038
	(!A1 * !B0 * Y)	-0.00003	-0.00002	-0.00002
	(!A1 * !B0 * Y)	0.00003	0.00003	0.00004
	(!A1 * !B0 * Y)	0.00051	0.00051	0.00052

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X3H7H	(A1 * B0 * !Y)	0.00027	0.00027	0.00027
	(A1 * B0 * !Y)	0.00006	0.00006	0.00006
	(A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !Y)	-0.00061	-0.00061	-0.00061
	(!A1 * B0 * !Y)	0.00037	0.00037	0.00037
	(!A1 * B0 * !Y)	0.00002	0.00003	0.00003
	(!A1 * B0 * !Y)	-0.00005	-0.00004	-0.00003
	(!A1 * B0 * !Y)	-0.00052	-0.00049	-0.00046
	(!A1 * !B0 * Y)	0.00038	0.00039	0.00040
	(!A1 * !B0 * Y)	0.00002	0.00003	0.00003
	(!A1 * !B0 * Y)	-0.00004	-0.00003	-0.00003
	(!A1 * !B0 * Y)	-0.00051	-0.00048	-0.00044

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X3H7H	(A0 * B0 * !Y)	-0.00028	-0.00024	-0.00019
	(A0 * B0 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !Y)	0.00060	0.00060	0.00062
	(!A0 * B0 * !Y)	-0.00038	-0.00038	-0.00037
	(!A0 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * B0 * !Y)	0.00003	0.00003	0.00004
	(!A0 * B0 * !Y)	0.00050	0.00051	0.00051
	(!A0 * !B0 * Y)	-0.00060	-0.00059	-0.00058
	(!A0 * !B0 * Y)	-0.00003	-0.00002	-0.00002
	(!A0 * !B0 * Y)	0.00006	0.00006	0.00006
	(!A0 * !B0 * Y)	0.00014	0.00014	0.00015

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X3H7H	(A0 * B0 * !Y)	0.00027	0.00028	0.00028
	(A0 * B0 * !Y)	0.00006	0.00006	0.00006
	(A0 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !Y)	-0.00060	-0.00060	-0.00060
	(!A0 * B0 * !Y)	0.00038	0.00038	0.00038
	(!A0 * B0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * B0 * !Y)	-0.00004	-0.00003	-0.00003
	(!A0 * B0 * !Y)	-0.00051	-0.00048	-0.00045
	(!A0 * !B0 * Y)	0.00059	0.00059	0.00060
	(!A0 * !B0 * Y)	0.00002	0.00003	0.00003
	(!A0 * !B0 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !B0 * Y)	-0.00014	-0.00014	-0.00014

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X3H7H	(A0 * A1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !Y)	-0.00008	-0.00008	-0.00008
	(A0 * A1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !Y)	0.00077	0.00077	0.00078

Passive power(pJ) for B0 falling (conditional):

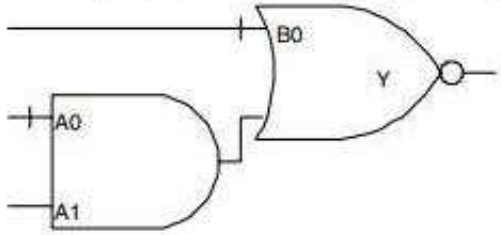
Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X3H7H	(A0 * A1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !Y)	0.00008	0.00008	0.00008
	(A0 * A1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !Y)	-0.00078	-0.00077	-0.00076

AOI21X4H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI21 cell provides the logical inverted OR of one AND group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0	Y
0	x	0	1
x	x	1	0
1	0	0	1
1	1	x	0

Footprint

Cell Name	Area
AOI21X4H7H	3.64000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	Y
AOI21X4H7H	0.00207	0.00222	0.00234	0.05408

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI21X4H7H	0.00000	0.04610	0.10360

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI21X4H7H	A0->Y (FR)	0.04469	0.22757	0.75454
	A1->Y (FR)	0.03777	0.21790	0.74582
	B0->Y (FR)	0.03664	0.21357	0.73916

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI21X4H7H	A0->Y (RF)	0.03036	0.16997	0.59454
	A1->Y (RF)	0.02645	0.16071	0.59188
	B0->Y (RF)	0.01387	0.10815	0.45916

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI21X4H7H	A0	0.00322	0.00331	0.00337
	A0	-0.00034	-0.00033	-0.00033
	A0	0.00031	0.00032	0.00032
	A0	-0.00025	-0.00018	-0.00014
	A1	0.00271	0.00280	0.00288
	A1	-0.00034	-0.00033	-0.00033
	A1	0.00017	0.00017	0.00018
	A1	-0.00028	-0.00019	-0.00011
	B0	0.00221	0.00237	0.00249
	B0	-0.00009	-0.00009	-0.00007
	B0	0.00031	0.00032	0.00032
	B0	-0.00035	-0.00026	-0.00016

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI21X4H7H	A0	-0.00032	-0.00026	-0.00022
	A0	0.00033	0.00033	0.00034
	A0	-0.00032	-0.00032	-0.00031
	A0	0.00303	0.00316	0.00322
	A1	-0.00036	-0.00028	-0.00022
	A1	0.00033	0.00033	0.00034
	A1	-0.00018	-0.00017	-0.00017
	A1	0.00238	0.00250	0.00259
	B0	-0.00039	-0.00027	-0.00018
	B0	0.00008	0.00009	0.00010
	B0	-0.00018	-0.00017	-0.00017
	B0	0.00235	0.00246	0.00255

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X4H7H	(A1 * B0 * !Y)	-0.00035	-0.00030	-0.00024
	(A1 * B0 * !Y)	-0.00008	-0.00007	-0.00007
	(A1 * B0 * !Y)	0.00001	0.00002	0.00002
	(A1 * B0 * !Y)	0.00067	0.00068	0.00069
	(!A1 * B0 * !Y)	-0.00047	-0.00047	-0.00046
	(!A1 * B0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1 * B0 * !Y)	0.00005	0.00005	0.00005
	(!A1 * B0 * !Y)	0.00057	0.00057	0.00057
	(!A1 * !B0 * Y)	-0.00048	-0.00047	-0.00047
	(!A1 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * Y)	0.00004	0.00004	0.00005
	(!A1 * !B0 * Y)	0.00057	0.00057	0.00057

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X4H7H	(A1 * B0 * !Y)	0.00034	0.00035	0.00035
	(A1 * B0 * !Y)	0.00007	0.00007	0.00008
	(A1 * B0 * !Y)	-0.00002	-0.00001	-0.00001
	(A1 * B0 * !Y)	-0.00068	-0.00067	-0.00067
	(!A1 * B0 * !Y)	0.00046	0.00047	0.00047
	(!A1 * B0 * !Y)	0.00003	0.00003	0.00003
	(!A1 * B0 * !Y)	-0.00005	-0.00005	-0.00004
	(!A1 * B0 * !Y)	-0.00057	-0.00054	-0.00050
	(!A1 * !B0 * Y)	0.00048	0.00048	0.00050
	(!A1 * !B0 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * Y)	-0.00005	-0.00004	-0.00004
	(!A1 * !B0 * Y)	-0.00057	-0.00053	-0.00048

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X4H7H	(A0 * B0 * !Y)	-0.00035	-0.00031	-0.00024
	(A0 * B0 * !Y)	-0.00008	-0.00008	-0.00007
	(A0 * B0 * !Y)	0.00001	0.00002	0.00002
	(A0 * B0 * !Y)	0.00066	0.00066	0.00067
	(!A0 * B0 * !Y)	-0.00048	-0.00048	-0.00047
	(!A0 * B0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * B0 * !Y)	0.00004	0.00005	0.00005
	(!A0 * B0 * !Y)	0.00055	0.00056	0.00056
	(!A0 * !B0 * Y)	-0.00071	-0.00071	-0.00070
	(!A0 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !B0 * Y)	0.00008	0.00008	0.00008
	(!A0 * !B0 * Y)	0.00014	0.00014	0.00014

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X4H7H	(A0 * B0 * !Y)	0.00035	0.00035	0.00035
	(A0 * B0 * !Y)	0.00008	0.00008	0.00008
	(A0 * B0 * !Y)	-0.00002	-0.00001	-0.00001
	(A0 * B0 * !Y)	-0.00066	-0.00066	-0.00066
	(!A0 * B0 * !Y)	0.00047	0.00048	0.00048
	(!A0 * B0 * !Y)	0.00003	0.00003	0.00003
	(!A0 * B0 * !Y)	-0.00005	-0.00004	-0.00004
	(!A0 * B0 * !Y)	-0.00056	-0.00053	-0.00049
	(!A0 * !B0 * Y)	0.00070	0.00071	0.00071
	(!A0 * !B0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !B0 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !B0 * Y)	-0.00014	-0.00014	-0.00014

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X4H7H	(A0 * A1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !Y)	-0.00010	-0.00010	-0.00010
	(A0 * A1 * !Y)	0.00001	0.00002	0.00002
	(A0 * A1 * !Y)	0.00086	0.00087	0.00087

Passive power(pJ) for B0 falling (conditional):

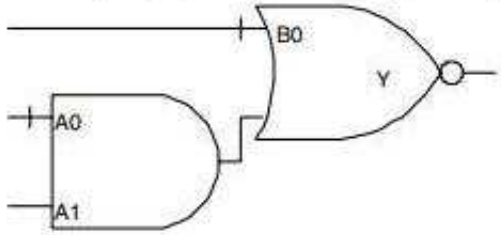
Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X4H7H	(A0 * A1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !Y)	0.00011	0.00011	0.00011
	(A0 * A1 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * !Y)	-0.00087	-0.00087	-0.00086

AOI21X6H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI21 cell provides the logical inverted OR of one AND group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0	Y
0	x	0	1
x	x	1	0
1	0	0	1
1	1	x	0

Footprint

Cell Name	Area
AOI21X6H7H	4.48000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	Y
AOI21X6H7H	0.00305	0.00332	0.00346	0.08113

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI21X6H7H	0.00000	0.06912	0.15541

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI21X6H7H	A0->Y (FR)	0.04231	0.22506	0.75358
	A1->Y (FR)	0.03618	0.21640	0.74640
	B0->Y (FR)	0.03451	0.21137	0.73982

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI21X6H7H	A0->Y (RF)	0.02895	0.16860	0.59536
	A1->Y (RF)	0.02578	0.16048	0.59408
	B0->Y (RF)	0.01327	0.10712	0.45870

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI21X6H7H	A0	0.00470	0.00485	0.00493
	A0	-0.00052	-0.00050	-0.00049
	A0	0.00047	0.00048	0.00048
	A0	-0.00045	-0.00037	-0.00030
	A1	0.00402	0.00415	0.00429
	A1	-0.00054	-0.00050	-0.00049
	A1	0.00026	0.00026	0.00027
	A1	-0.00048	-0.00033	-0.00020
	B0	0.00332	0.00349	0.00366
	B0	-0.00013	-0.00013	-0.00011
	B0	0.00047	0.00048	0.00048
	B0	-0.00059	-0.00044	-0.00029

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI21X6H7H	A0	-0.00049	-0.00040	-0.00033
	A0	0.00049	0.00050	0.00052
	A0	-0.00048	-0.00048	-0.00047
	A0	0.00453	0.00471	0.00479
	A1	-0.00055	-0.00043	-0.00033
	A1	0.00049	0.00050	0.00054
	A1	-0.00027	-0.00026	-0.00026
	A1	0.00355	0.00377	0.00391
	B0	-0.00060	-0.00042	-0.00028
	B0	0.00012	0.00013	0.00016
	B0	-0.00026	-0.00026	-0.00025
	B0	0.00350	0.00365	0.00379

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X6H7H	(A1 * B0 * !Y)	-0.00052	-0.00046	-0.00036
	(A1 * B0 * !Y)	-0.00012	-0.00012	-0.00011
	(A1 * B0 * !Y)	0.00002	0.00002	0.00003
	(A1 * B0 * !Y)	0.00099	0.00100	0.00100
	(!A1 * B0 * !Y)	-0.00070	-0.00070	-0.00070
	(!A1 * B0 * !Y)	-0.00004	-0.00004	-0.00004
	(!A1 * B0 * !Y)	0.00006	0.00007	0.00008
	(!A1 * B0 * !Y)	0.00083	0.00083	0.00083
	(!A1 * !B0 * Y)	-0.00071	-0.00071	-0.00070
	(!A1 * !B0 * Y)	-0.00005	-0.00004	-0.00004
	(!A1 * !B0 * Y)	0.00007	0.00007	0.00007
	(!A1 * !B0 * Y)	0.00083	0.00084	0.00084

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X6H7H	(A1 * B0 * !Y)	0.00052	0.00052	0.00052
	(A1 * B0 * !Y)	0.00012	0.00012	0.00012
	(A1 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !Y)	-0.00099	-0.00099	-0.00099
	(!A1 * B0 * !Y)	0.00070	0.00070	0.00071
	(!A1 * B0 * !Y)	0.00004	0.00004	0.00005
	(!A1 * B0 * !Y)	-0.00008	-0.00007	-0.00006
	(!A1 * B0 * !Y)	-0.00083	-0.00079	-0.00074
	(!A1 * !B0 * Y)	0.00071	0.00073	0.00076
	(!A1 * !B0 * Y)	0.00004	0.00005	0.00005
	(!A1 * !B0 * Y)	-0.00007	-0.00007	-0.00007
	(!A1 * !B0 * Y)	-0.00083	-0.00078	-0.00071

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X6H7H	(A0 * B0 * !Y)	-0.00052	-0.00046	-0.00036
	(A0 * B0 * !Y)	-0.00012	-0.00012	-0.00011
	(A0 * B0 * !Y)	0.00002	0.00002	0.00003
	(A0 * B0 * !Y)	0.00100	0.00101	0.00102
	(!A0 * B0 * !Y)	-0.00071	-0.00071	-0.00070
	(!A0 * B0 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * B0 * !Y)	0.00007	0.00007	0.00007
	(!A0 * B0 * !Y)	0.00084	0.00085	0.00085
	(!A0 * !B0 * Y)	-0.00107	-0.00106	-0.00105
	(!A0 * !B0 * Y)	-0.00005	-0.00004	-0.00004
	(!A0 * !B0 * Y)	0.00012	0.00013	0.00013
	(!A0 * !B0 * Y)	0.00019	0.00019	0.00020

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X6H7H	(A0 * B0 * !Y)	0.00052	0.00052	0.00053
	(A0 * B0 * !Y)	0.00011	0.00012	0.00012
	(A0 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !Y)	-0.00101	-0.00100	-0.00100
	(!A0 * B0 * !Y)	0.00070	0.00071	0.00071
	(!A0 * B0 * !Y)	0.00004	0.00005	0.00005
	(!A0 * B0 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0 * B0 * !Y)	-0.00085	-0.00081	-0.00075
	(!A0 * !B0 * Y)	0.00106	0.00107	0.00107
	(!A0 * !B0 * Y)	0.00004	0.00005	0.00005
	(!A0 * !B0 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * !B0 * Y)	-0.00019	-0.00019	-0.00019

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X6H7H	(A0 * A1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !Y)	-0.00016	-0.00016	-0.00015
	(A0 * A1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !Y)	0.00128	0.00129	0.00130

Passive power(pJ) for B0 falling (conditional):

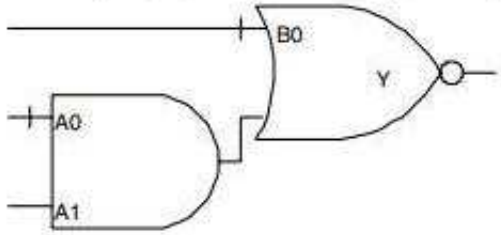
Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X6H7H	(A0 * A1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !Y)	0.00016	0.00016	0.00017
	(A0 * A1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !Y)	-0.00130	-0.00129	-0.00127

AOI21X8H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI21 cell provides the logical inverted OR of one AND group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0	Y
0	x	0	1
x	x	1	0
1	0	0	1
1	1	x	0

Footprint

Cell Name	Area
AOI21X8H7H	5.60000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	Y
AOI21X8H7H	0.00406	0.00439	0.00456	0.10812

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI21X8H7H	0.00000	0.09220	0.20721

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI21X8H7H	A0->Y (FR)	0.04144	0.22438	0.75301
	A1->Y (FR)	0.03492	0.21513	0.74595
	B0->Y (FR)	0.03329	0.21027	0.74001

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI21X8H7H	A0->Y (RF)	0.02831	0.16796	0.59452
	A1->Y (RF)	0.02478	0.15930	0.59375
	B0->Y (RF)	0.01279	0.10621	0.45815

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI21X8H7H	A0	0.00628	0.00644	0.00654
	A0	-0.00068	-0.00067	-0.00066
	A0	0.00063	0.00064	0.00064
	A0	-0.00063	-0.00052	-0.00042
	A1	0.00528	0.00545	0.00563
	A1	-0.00069	-0.00067	-0.00065
	A1	0.00034	0.00035	0.00036
	A1	-0.00070	-0.00051	-0.00034
	B0	0.00437	0.00458	0.00480
	B0	-0.00018	-0.00017	-0.00009
	B0	0.00063	0.00063	0.00064
	B0	-0.00081	-0.00062	-0.00043

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI21X8H7H	A0	-0.00066	-0.00053	-0.00044
	A0	0.00066	0.00067	0.00068
	A0	-0.00064	-0.00064	-0.00063
	A0	0.00598	0.00627	0.00638
	A1	-0.00074	-0.00057	-0.00044
	A1	0.00065	0.00067	0.00069
	A1	-0.00035	-0.00035	-0.00034
	A1	0.00475	0.00501	0.00517
	B0	-0.00080	-0.00056	-0.00039
	B0	0.00012	0.00017	0.00020
	B0	-0.00035	-0.00035	-0.00034
	B0	0.00453	0.00482	0.00503

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X8H7H	(A1 * B0 * !Y)	-0.00070	-0.00061	-0.00048
	(A1 * B0 * !Y)	-0.00016	-0.00015	-0.00015
	(A1 * B0 * !Y)	0.00003	0.00003	0.00004
	(A1 * B0 * !Y)	0.00131	0.00132	0.00133
	(!A1 * B0 * !Y)	-0.00095	-0.00094	-0.00094
	(!A1 * B0 * !Y)	-0.00006	-0.00006	-0.00005
	(!A1 * B0 * !Y)	0.00009	0.00010	0.00010
	(!A1 * B0 * !Y)	0.00109	0.00110	0.00110
	(!A1 * !B0 * Y)	-0.00096	-0.00095	-0.00095
	(!A1 * !B0 * Y)	-0.00006	-0.00006	-0.00006
	(!A1 * !B0 * Y)	0.00009	0.00009	0.00009
	(!A1 * !B0 * Y)	0.00110	0.00111	0.00111

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X8H7H	(A1 * B0 * !Y)	0.00070	0.00070	0.00070
	(A1 * B0 * !Y)	0.00015	0.00016	0.00016
	(A1 * B0 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * !Y)	-0.00131	-0.00131	-0.00130
	(!A1 * B0 * !Y)	0.00094	0.00094	0.00095
	(!A1 * B0 * !Y)	0.00006	0.00006	0.00006
	(!A1 * B0 * !Y)	-0.00010	-0.00010	-0.00009
	(!A1 * B0 * !Y)	-0.00110	-0.00105	-0.00098
	(!A1 * !B0 * Y)	0.00096	0.00097	0.00102
	(!A1 * !B0 * Y)	0.00006	0.00006	0.00006
	(!A1 * !B0 * Y)	-0.00009	-0.00009	-0.00009
	(!A1 * !B0 * Y)	-0.00110	-0.00103	-0.00094

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X8H7H	(A0 * B0 * !Y)	-0.00071	-0.00062	-0.00049
	(A0 * B0 * !Y)	-0.00016	-0.00016	-0.00015
	(A0 * B0 * !Y)	0.00003	0.00003	0.00003
	(A0 * B0 * !Y)	0.00132	0.00133	0.00134
	(!A0 * B0 * !Y)	-0.00096	-0.00095	-0.00094
	(!A0 * B0 * !Y)	-0.00006	-0.00006	-0.00005
	(!A0 * B0 * !Y)	0.00009	0.00009	0.00009
	(!A0 * B0 * !Y)	0.00111	0.00112	0.00112
	(!A0 * !B0 * Y)	-0.00143	-0.00142	-0.00140
	(!A0 * !B0 * Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !B0 * Y)	0.00016	0.00016	0.00016
	(!A0 * !B0 * Y)	0.00026	0.00027	0.00027

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X8H7H	(A0 * B0 * !Y)	0.00070	0.00070	0.00071
	(A0 * B0 * !Y)	0.00015	0.00016	0.00016
	(A0 * B0 * !Y)	-0.00003	-0.00003	-0.00002
	(A0 * B0 * !Y)	-0.00132	-0.00132	-0.00131
	(!A0 * B0 * !Y)	0.00094	0.00095	0.00096
	(!A0 * B0 * !Y)	0.00006	0.00006	0.00006
	(!A0 * B0 * !Y)	-0.00009	-0.00009	-0.00009
	(!A0 * B0 * !Y)	-0.00112	-0.00107	-0.00099
	(!A0 * !B0 * Y)	0.00141	0.00143	0.00144
	(!A0 * !B0 * Y)	0.00006	0.00006	0.00006
	(!A0 * !B0 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !B0 * Y)	-0.00027	-0.00026	-0.00026

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X8H7H	(A0 * A1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !Y)	-0.00021	-0.00021	-0.00021
	(A0 * A1 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !Y)	0.00169	0.00170	0.00170

Passive power(pJ) for B0 falling (conditional):

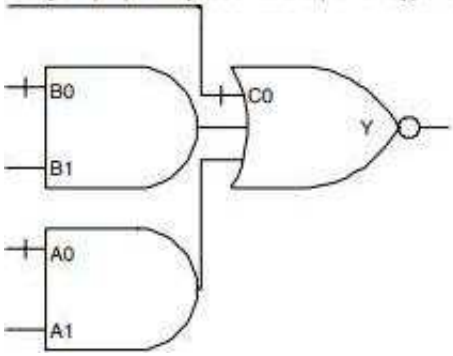
Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X8H7H	(A0 * A1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !Y)	0.00022	0.00022	0.00022
	(A0 * A1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !Y)	-0.00170	-0.00169	-0.00167

AOI221X0P5H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI221 cell provides the logical inverted OR of two AND groups and a third input. The output (Y) is represented by the logic equation:



Truth Table

INPUT					OUTPUT
A0	A1	B0	B1	C0	Y
0	x	0	x	0	1
0	x	x	x	1	0
0	x	1	0	0	1
x	x	1	1	x	0
1	0	0	x	0	1
1	0	x	x	1	0
1	0	1	0	0	1
1	1	x	x	x	0

Footprint

Cell Name	Area
AOI221X0P5H7H	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	**A1**	**B0**	**B1**	**C0**	**Y**
AOI221X0P5H7H	0.00077	0.00085	0.00076	0.00089	0.00091	0.00939

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
AOI221X0P5H7H	0.00000	0.01089	0.01286

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI221X0P5H7H	A0->Y (FR)	0.13248	0.30131	0.75277
	A1->Y (FR)	0.12457	0.29170	0.74192
	B0->Y (FR)	0.12236	0.29151	0.76060
	B1->Y (FR)	0.11523	0.28215	0.75022
	C0->Y (FR)	0.10253	0.26392	0.72179

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI221X0P5H7H	A0->Y (RF)	0.05195	0.15991	0.47456
	A1->Y (RF)	0.05029	0.15702	0.48308
	B0->Y (RF)	0.04706	0.15145	0.46369
	B1->Y (RF)	0.04576	0.14824	0.47183
	C0->Y (RF)	0.02219	0.09959	0.36356

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI221X0P5H7H	A0	0.00182	0.00184	0.00186
	A0	-0.00016	-0.00016	-0.00015
	A0	0.00015	0.00015	0.00015
	A0	0.00005	0.00007	0.00009
	A1	0.00170	0.00173	0.00176
	A1	-0.00016	-0.00016	-0.00015
	A1	0.00011	0.00011	0.00011
	A1	0.00004	0.00007	0.00011
	B0	0.00147	0.00149	0.00150
	B0	-0.00008	-0.00008	-0.00006
	B0	0.00015	0.00015	0.00015
	B0	0.00004	0.00006	0.00007
	B1	0.00134	0.00138	0.00141
	B1	-0.00008	-0.00008	-0.00006
	B1	0.00011	0.00011	0.00011
	B1	0.00003	0.00007	0.00011
	C0	0.00114	0.00117	0.00121
	C0	-0.00002	-0.00002	-0.00000
	C0	0.00015	0.00015	0.00015
	C0	-0.00007	-0.00004	-0.00001

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI221X0P5H7H	A0	-0.00010	-0.00007	-0.00006
	A0	0.00016	0.00016	0.00017
	A0	-0.00011	-0.00011	-0.00011
	A0	0.00156	0.00159	0.00161
	A1	-0.00011	-0.00008	-0.00006
	A1	0.00016	0.00016	0.00016
	A1	-0.00007	-0.00007	-0.00007
	A1	0.00141	0.00145	0.00148
	B0	-0.00009	-0.00007	-0.00003
	B0	0.00007	0.00008	0.00009
	B0	-0.00011	-0.00011	-0.00011
	B0	0.00133	0.00136	0.00137
	B1	-0.00009	-0.00006	-0.00003
	B1	0.00008	0.00008	0.00010
	B1	-0.00007	-0.00007	-0.00007
	B1	0.00117	0.00120	0.00123
	C0	-0.00012	-0.00009	-0.00005
	C0	0.00001	0.00002	0.00006
	C0	-0.00007	-0.00007	-0.00007
	C0	0.00114	0.00117	0.00120

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X0P5H7H	**(A1 * B0 * B1 * C0 * !Y)**	-0.00010	-0.00009	-0.00006
	(A1 * B0 * B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C0 * !Y)	0.00023	0.00024	0.00024
	(A1 * B0 * B1 * !C0 * !Y)	-0.00010	-0.00009	-0.00006
	(A1 * B0 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * B1 * !C0 * !Y)	0.00023	0.00024	0.00024
	(A1 * !B1 * C0 * !Y)	-0.00010	-0.00008	-0.00006
	(A1 * !B1 * C0 * !Y)	-0.00003	-0.00003	-0.00002
	(A1 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B1 * C0 * !Y)	0.00024	0.00024	0.00024
	(A1 * !B0 * B1 * C0 * !Y)	-0.00010	-0.00008	-0.00006
	(A1 * !B0 * B1 * C0 * !Y)	-0.00003	-0.00003	-0.00002
	(A1 * !B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * C0 * !Y)	0.00024	0.00024	0.00024
	(!A1 * B0 * B1 * !Y)	-0.00015	-0.00015	-0.00015
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	0.00020	0.00020	0.00020
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	0.00020	0.00020	0.00020
	(!A1 * !B1 * !C0 * Y)	-0.00016	-0.00016	-0.00016
	(!A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C0 * Y)	0.00019	0.00019	0.00019
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00016	-0.00016	-0.00016
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * Y)	0.00019	0.00019	0.00019

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X0P5H7H	**(A1 * B0 * B1 * C0 * !Y)**	0.00010	0.00010	0.00010
	(A1 * B0 * B1 * C0 * !Y)	0.00002	0.00003	0.00002
	(A1 * B0 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * C0 * !Y)	-0.00024	-0.00023	-0.00023
	(A1 * B0 * B1 * !C0 * !Y)	0.00010	0.00010	0.00010
	(A1 * B0 * B1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * !C0 * !Y)	-0.00024	-0.00023	-0.00023
	(A1 * !B1 * C0 * !Y)	0.00010	0.00010	0.00010
	(A1 * !B1 * C0 * !Y)	0.00002	0.00003	0.00003
	(A1 * !B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B1 * C0 * !Y)	-0.00024	-0.00024	-0.00024
	(A1 * !B0 * B1 * C0 * !Y)	0.00010	0.00010	0.00010
	(A1 * !B0 * B1 * C0 * !Y)	0.00002	0.00003	0.00003
	(A1 * !B0 * B1 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * B1 * C0 * !Y)	-0.00024	-0.00023	-0.00023
	(!A1 * B0 * B1 * !Y)	0.00015	0.00015	0.00015
	(!A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !Y)	-0.00020	-0.00019	-0.00019
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	0.00015	0.00015	0.00015
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	-0.00020	-0.00020	-0.00019
	(!A1 * !B1 * !C0 * Y)	0.00016	0.00017	0.00018
	(!A1 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C0 * Y)	-0.00019	-0.00018	-0.00017
	(!A1 * !B0 * B1 * !C0 * Y)	0.00017	0.00017	0.00017
	(!A1 * !B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00019	-0.00018	-0.00016

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X0P5H7H	**(A0 * B0 * B1 * C0 * !Y)**	-0.00010	-0.00009	-0.00006
	(A0 * B0 * B1 * C0 * !Y)	-0.00003	-0.00003	-0.00002
	(A0 * B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * C0 * !Y)	0.00026	0.00026	0.00026
	(A0 * B0 * B1 * !C0 * !Y)	-0.00010	-0.00009	-0.00006
	(A0 * B0 * B1 * !C0 * !Y)	-0.00003	-0.00003	-0.00002
	(A0 * B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !C0 * !Y)	0.00026	0.00026	0.00026
	(A0 * !B1 * C0 * !Y)	-0.00010	-0.00008	-0.00006
	(A0 * !B1 * C0 * !Y)	-0.00003	-0.00003	-0.00002
	(A0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B1 * C0 * !Y)	0.00026	0.00026	0.00027
	(A0 * !B0 * B1 * C0 * !Y)	-0.00010	-0.00008	-0.00006
	(A0 * !B0 * B1 * C0 * !Y)	-0.00003	-0.00003	-0.00002
	(A0 * !B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * B1 * C0 * !Y)	0.00026	0.00026	0.00027
	(!A0 * B0 * B1 * C0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A0 * B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * C0 * !Y)	0.00023	0.00023	0.00023
	(!A0 * B0 * B1 * !C0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A0 * B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * !C0 * !Y)	0.00022	0.00023	0.00023
	(!A0 * !B1 * C0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * C0 * !Y)	0.00023	0.00023	0.00023
	(!A0 * !B1 * !C0 * Y)	-0.00025	-0.00024	-0.00024
	(!A0 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * !C0 * Y)	0.00002	0.00003	0.00003
	(!A0 * !B1 * !C0 * Y)	0.00007	0.00007	0.00007
	(!A0 * !B0 * B1 * C0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * B1 * C0 * !Y)	0.00023	0.00023	0.00023
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00025	-0.00024	-0.00024
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * B1 * !C0 * Y)	0.00002	0.00003	0.00003
	(!A0 * !B0 * B1 * !C0 * Y)	0.00007	0.00007	0.00007

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X0P5H7H	**(A0 * B0 * B1 * C0 * !Y)**	0.00010	0.00010	0.00010
	(A0 * B0 * B1 * C0 * !Y)	0.00002	0.00003	0.00003
	(A0 * B0 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * C0 * !Y)	-0.00026	-0.00026	-0.00026
	(A0 * B0 * B1 * !C0 * !Y)	0.00010	0.00010	0.00010
	(A0 * B0 * B1 * !C0 * !Y)	0.00002	0.00003	0.00003
	(A0 * B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * !C0 * !Y)	-0.00026	-0.00026	-0.00026
	(A0 * !B1 * C0 * !Y)	0.00010	0.00010	0.00010
	(A0 * !B1 * C0 * !Y)	0.00002	0.00003	0.00003
	(A0 * !B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B1 * C0 * !Y)	-0.00026	-0.00026	-0.00026
	(A0 * !B0 * B1 * C0 * !Y)	0.00010	0.00010	0.00010
	(A0 * !B0 * B1 * C0 * !Y)	0.00002	0.00003	0.00003
	(A0 * !B0 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * B1 * C0 * !Y)	-0.00026	-0.00026	-0.00026
	(!A0 * B0 * B1 * C0 * !Y)	0.00015	0.00015	0.00015
	(!A0 * B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * C0 * !Y)	-0.00023	-0.00022	-0.00021
	(!A0 * B0 * B1 * !C0 * !Y)	0.00015	0.00015	0.00015
	(!A0 * B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * !C0 * !Y)	-0.00023	-0.00022	-0.00021
	(!A0 * !B1 * C0 * !Y)	0.00015	0.00015	0.00015
	(!A0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * C0 * !Y)	-0.00023	-0.00022	-0.00021
	(!A0 * !B1 * !C0 * Y)	0.00024	0.00024	0.00025
	(!A0 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B1 * !C0 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !B0 * B1 * C0 * !Y)	0.00015	0.00015	0.00015
	(!A0 * !B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * B1 * C0 * !Y)	-0.00023	-0.00022	-0.00021
	(!A0 * !B0 * B1 * !C0 * Y)	0.00024	0.00024	0.00025
	(!A0 * !B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X0P5H7H	**(A0 * A1 * B1 * C0 * !Y)**	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * C0 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * A1 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * !Y)	0.00023	0.00023	0.00023
	(A0 * A1 * B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * !C0 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * !Y)	0.00023	0.00023	0.00024
	(A0 * A1 * !B1 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B1 * C0 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * A1 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * C0 * !Y)	0.00020	0.00020	0.00020
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00004	-0.00005	-0.00004
	(A0 * A1 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !C0 * !Y)	0.00020	0.00021	0.00021
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	-0.00018	-0.00017	-0.00017
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	0.00018	0.00018	0.00018
	(!A1 * B1 * C0 * !Y)	-0.00014	-0.00013	-0.00010
	(!A1 * B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B1 * C0 * !Y)	0.00000	0.00000	0.00001
	(!A1 * B1 * C0 * !Y)	0.00021	0.00022	0.00022
	(!A1 * !B1 * !C0 * Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C0 * Y)	0.00016	0.00017	0.00017
	(!A0 * A1 * B1 * C0 * !Y)	-0.00014	-0.00013	-0.00010
	(!A0 * A1 * B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * B1 * C0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * B1 * C0 * !Y)	0.00021	0.00022	0.00022
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00019	-0.00019	-0.00019
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !C0 * Y)	0.00016	0.00017	0.00017

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X0P5H7H	**(A0 * A1 * B1 * C0 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * !Y)	0.00006	0.00006	0.00006
	(A0 * A1 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * C0 * !Y)	-0.00023	-0.00023	-0.00023
	(A0 * A1 * B1 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * !C0 * !Y)	-0.00023	-0.00023	-0.00023
	(A0 * A1 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * !Y)	0.00006	0.00006	0.00006
	(A0 * A1 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * C0 * !Y)	-0.00020	-0.00020	-0.00018
	(A0 * A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * !Y)	0.00004	0.00005	0.00004
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00021	-0.00020	-0.00019
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	0.00017	0.00017	0.00018
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	-0.00018	-0.00017	-0.00016
	(!A1 * B1 * C0 * !Y)	0.00014	0.00014	0.00014
	(!A1 * B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B1 * C0 * !Y)	-0.00021	-0.00021	-0.00021
	(!A1 * !B1 * !C0 * Y)	0.00019	0.00019	0.00020
	(!A1 * !B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C0 * Y)	-0.00017	-0.00016	-0.00014
	(!A0 * A1 * B1 * C0 * !Y)	0.00014	0.00014	0.00014
	(!A0 * A1 * B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B1 * C0 * !Y)	-0.00021	-0.00021	-0.00021
	(!A0 * A1 * !B1 * !C0 * Y)	0.00019	0.00019	0.00020
	(!A0 * A1 * !B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00017	-0.00016	-0.00014

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X0P5H7H	**(A0 * A1 * B0 * C0 * !Y)**	-0.00000	-0.00000	0.00000
	(A0 * A1 * B0 * C0 * !Y)	-0.00006	-0.00006	-0.00005
	(A0 * A1 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * !Y)	0.00025	0.00025	0.00025
	(A0 * A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * !Y)	0.00025	0.00025	0.00025
	(A0 * A1 * !B0 * C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * C0 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * C0 * !Y)	0.00022	0.00022	0.00022
	(A0 * A1 * !B0 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * !C0 * !Y)	0.00022	0.00022	0.00023
	(!A1 * B0 * C0 * !Y)	-0.00013	-0.00011	-0.00009
	(!A1 * B0 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * C0 * !Y)	0.00023	0.00024	0.00024
	(!A1 * !B0 * C0 * !Y)	-0.00016	-0.00016	-0.00016
	(!A1 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * !Y)	0.00020	0.00020	0.00020
	(!A1 * !B0 * !C0 * Y)	-0.00027	-0.00027	-0.00027
	(!A1 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * Y)	0.00002	0.00003	0.00003
	(!A1 * !B0 * !C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * B0 * C0 * !Y)	-0.00013	-0.00011	-0.00009
	(!A0 * A1 * B0 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * B0 * C0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * B0 * C0 * !Y)	0.00023	0.00024	0.00024
	(!A0 * A1 * !B0 * C0 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0 * A1 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * !B0 * C0 * !Y)	0.00020	0.00020	0.00020
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00027	-0.00027	-0.00027
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * !C0 * Y)	0.00002	0.00003	0.00003
	(!A0 * A1 * !B0 * !C0 * Y)	0.00003	0.00003	0.00003

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X0P5H7H	**(A0 * A1 * B0 * C0 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * !Y)	0.00005	0.00006	0.00006
	(A0 * A1 * B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * C0 * !Y)	-0.00025	-0.00025	-0.00025
	(A0 * A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * !Y)	0.00004	0.00005	0.00005
	(A0 * A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * !C0 * !Y)	-0.00025	-0.00025	-0.00025
	(A0 * A1 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * C0 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * C0 * !Y)	-0.00022	-0.00022	-0.00021
	(A0 * A1 * !B0 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * !C0 * !Y)	-0.00022	-0.00022	-0.00020
	(!A1 * B0 * C0 * !Y)	0.00013	0.00013	0.00013
	(!A1 * B0 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * C0 * !Y)	-0.00024	-0.00023	-0.00023
	(!A1 * !B0 * C0 * !Y)	0.00016	0.00016	0.00016
	(!A1 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * !Y)	-0.00020	-0.00019	-0.00018
	(!A1 * !B0 * !C0 * Y)	0.00027	0.00027	0.00027
	(!A1 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * B0 * C0 * !Y)	0.00013	0.00013	0.00013
	(!A0 * A1 * B0 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * C0 * !Y)	-0.00023	-0.00023	-0.00023
	(!A0 * A1 * !B0 * C0 * !Y)	0.00016	0.00016	0.00016
	(!A0 * A1 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * !B0 * C0 * !Y)	-0.00020	-0.00019	-0.00018
	(!A0 * A1 * !B0 * !C0 * Y)	0.00027	0.00027	0.00027
	(!A0 * A1 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00003	-0.00003	-0.00003

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI221X0P5H7H	(A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !Y)	0.00034	0.00035	0.00035
	(A0 * A1 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !Y)	0.00034	0.00035	0.00035
	(A0 * A1 * !B0 * B1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !Y)	0.00034	0.00035	0.00035
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * !Y)	0.00034	0.00034	0.00035

Passive power(pJ) for C0 falling (conditional):

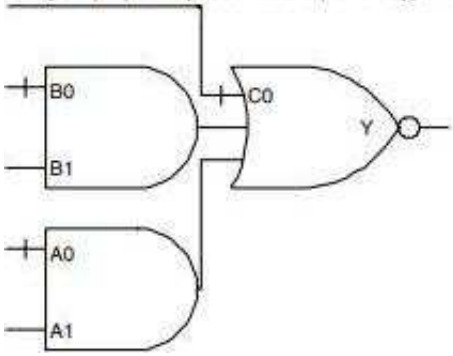
Cell Name	When	Power(pJ)		
		min	avg	max
AOI221X0P5H7H	(A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !Y)	0.00003	0.00003	0.00003
	(A1 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * !Y)	-0.00035	-0.00034	-0.00034
	(A0 * A1 * !B1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B1 * !Y)	-0.00035	-0.00034	-0.00034
	(A0 * A1 * !B0 * B1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B0 * B1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !Y)	-0.00035	-0.00034	-0.00034
	(!A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	0.00003	0.00003	0.00003
	(!A1 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * !Y)	-0.00035	-0.00034	-0.00034

AOI221X0P7H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI221 cell provides the logical inverted OR of two AND groups and a third input. The output (Y) is represented by the logic equation:



Truth Table

INPUT					OUTPUT
A0	A1	B0	B1	C0	Y
0	x	0	x	0	1
0	x	x	x	1	0
0	x	1	0	0	1
x	x	1	1	x	0
1	0	0	x	0	1
1	0	x	x	1	0
1	0	1	0	0	1
1	1	x	x	x	0

Footprint

Cell Name	Area
AOI221X0P7H7H	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	**A1**	**B0**	**B1**	**C0**	**Y**
AOI221X0P7H7H	0.00082	0.00091	0.00077	0.00095	0.00097	0.01077

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
AOI221X0P7H7H	0.00000	0.01236	0.01923

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI221X0P7H7H	A0->Y (FR)	0.12246	0.29299	0.75028
	A1->Y (FR)	0.11494	0.28392	0.74074
	B0->Y (FR)	0.11066	0.28148	0.75753
	B1->Y (FR)	0.10511	0.27373	0.74897
	C0->Y (FR)	0.09588	0.25915	0.72248

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI221X0P7H7H	A0->Y (RF)	0.04912	0.15927	0.48254
	A1->Y (RF)	0.04748	0.15515	0.48594
	B0->Y (RF)	0.04319	0.14958	0.47044
	B1->Y (RF)	0.04243	0.14572	0.47480
	C0->Y (RF)	0.02105	0.09911	0.36896

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI221X0P7H7H	A0	0.00194	0.00196	0.00198
	A0	-0.00018	-0.00018	-0.00017
	A0	0.00017	0.00017	0.00017
	A0	0.00003	0.00005	0.00007
	A1	0.00181	0.00185	0.00188
	A1	-0.00018	-0.00018	-0.00017
	A1	0.00012	0.00013	0.00013
	A1	0.00001	0.00005	0.00009
	B0	0.00152	0.00155	0.00156
	B0	-0.00010	-0.00010	-0.00009
	B0	0.00017	0.00017	0.00017
	B0	0.00001	0.00003	0.00005
	B1	0.00140	0.00144	0.00147
	B1	-0.00010	-0.00010	-0.00008
	B1	0.00012	0.00013	0.00013
	B1	0.00001	0.00005	0.00008
	C0	0.00121	0.00126	0.00130
	C0	-0.00002	-0.00002	-0.00001
	C0	0.00017	0.00017	0.00017
	C0	-0.00008	-0.00004	-0.00000

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI221X0P7H7H	A0	-0.00011	-0.00009	-0.00007
	A0	0.00018	0.00019	0.00019
	A0	-0.00013	-0.00013	-0.00012
	A0	0.00168	0.00172	0.00174
	A1	-0.00012	-0.00009	-0.00007
	A1	0.00018	0.00019	0.00019
	A1	-0.00008	-0.00008	-0.00008
	A1	0.00152	0.00156	0.00159
	B0	-0.00010	-0.00008	-0.00006
	B0	0.00010	0.00010	0.00011
	B0	-0.00013	-0.00013	-0.00012
	B0	0.00141	0.00143	0.00145
	B1	-0.00011	-0.00007	-0.00005
	B1	0.00009	0.00010	0.00011
	B1	-0.00008	-0.00008	-0.00008
	B1	0.00125	0.00128	0.00131
	C0	-0.00013	-0.00010	-0.00007
	C0	0.00001	0.00002	0.00004
	C0	-0.00008	-0.00008	-0.00008
	C0	0.00123	0.00126	0.00129

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X0P7H7H	**(A1 * B0 * B1 * C0 * !Y)**	-0.00011	-0.00010	-0.00007
	(A1 * B0 * B1 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00001
	(A1 * B0 * B1 * C0 * !Y)	0.00024	0.00024	0.00024
	(A1 * B0 * B1 * !C0 * !Y)	-0.00011	-0.00010	-0.00007
	(A1 * B0 * B1 * !C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * B1 * !C0 * !Y)	0.00024	0.00024	0.00025
	(A1 * !B1 * C0 * !Y)	-0.00011	-0.00009	-0.00007
	(A1 * !B1 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * !B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * !B1 * C0 * !Y)	0.00024	0.00024	0.00025
	(A1 * !B0 * B1 * C0 * !Y)	-0.00011	-0.00009	-0.00007
	(A1 * !B0 * B1 * C0 * !Y)	-0.00003	-0.00003	-0.00002
	(A1 * !B0 * B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * B1 * C0 * !Y)	0.00024	0.00024	0.00024
	(!A1 * B0 * B1 * !Y)	-0.00016	-0.00016	-0.00016
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !Y)	0.00001	0.00002	0.00002
	(!A1 * B0 * B1 * !Y)	0.00020	0.00021	0.00021
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	-0.00016	-0.00016	-0.00016
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	0.00001	0.00002	0.00002
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	0.00021	0.00021	0.00021
	(!A1 * !B1 * !C0 * Y)	-0.00018	-0.00018	-0.00018
	(!A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	0.00000
	(!A1 * !B1 * !C0 * Y)	0.00001	0.00001	0.00002
	(!A1 * !B1 * !C0 * Y)	0.00019	0.00019	0.00020
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00018	-0.00018	-0.00018
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	0.00000
	(!A1 * !B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * Y)	0.00019	0.00019	0.00020

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X0P7H7H	**(A1 * B0 * B1 * C0 * !Y)**	0.00011	0.00011	0.00011
	(A1 * B0 * B1 * C0 * !Y)	0.00003	0.00003	0.00003
	(A1 * B0 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * C0 * !Y)	-0.00024	-0.00024	-0.00024
	(A1 * B0 * B1 * !C0 * !Y)	0.00011	0.00011	0.00012
	(A1 * B0 * B1 * !C0 * !Y)	0.00003	0.00003	0.00003
	(A1 * B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * !C0 * !Y)	-0.00024	-0.00024	-0.00024
	(A1 * !B1 * C0 * !Y)	0.00011	0.00011	0.00011
	(A1 * !B1 * C0 * !Y)	0.00003	0.00003	0.00003
	(A1 * !B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B1 * C0 * !Y)	-0.00024	-0.00024	-0.00024
	(A1 * !B0 * B1 * C0 * !Y)	0.00011	0.00011	0.00011
	(A1 * !B0 * B1 * C0 * !Y)	0.00002	0.00003	0.00003
	(A1 * !B0 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * B1 * C0 * !Y)	-0.00024	-0.00024	-0.00024
	(!A1 * B0 * B1 * !Y)	0.00016	0.00016	0.00017
	(!A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * B0 * B1 * !Y)	-0.00021	-0.00020	-0.00019
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	0.00016	0.00016	0.00017
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	-0.00021	-0.00020	-0.00019
	(!A1 * !B1 * !C0 * Y)	0.00018	0.00018	0.00019
	(!A1 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C0 * Y)	-0.00002	-0.00001	-0.00001
	(!A1 * !B1 * !C0 * Y)	-0.00019	-0.00018	-0.00017
	(!A1 * !B0 * B1 * !C0 * Y)	0.00018	0.00018	0.00019
	(!A1 * !B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00019	-0.00018	-0.00017

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X0P7H7H	**(A0 * B0 * B1 * C0 * !Y)**	-0.00012	-0.00010	-0.00007
	(A0 * B0 * B1 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00001
	(A0 * B0 * B1 * C0 * !Y)	0.00026	0.00026	0.00027
	(A0 * B0 * B1 * !C0 * !Y)	-0.00012	-0.00010	-0.00007
	(A0 * B0 * B1 * !C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00001
	(A0 * B0 * B1 * !C0 * !Y)	0.00026	0.00026	0.00027
	(A0 * !B1 * C0 * !Y)	-0.00011	-0.00009	-0.00007
	(A0 * !B1 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00001
	(A0 * !B1 * C0 * !Y)	0.00026	0.00027	0.00027
	(A0 * !B0 * B1 * C0 * !Y)	-0.00011	-0.00009	-0.00007
	(A0 * !B0 * B1 * C0 * !Y)	-0.00004	-0.00003	-0.00003
	(A0 * !B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * B1 * C0 * !Y)	0.00026	0.00027	0.00027
	(!A0 * B0 * B1 * C0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * B0 * B1 * C0 * !Y)	0.00023	0.00023	0.00023
	(!A0 * B0 * B1 * !C0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * !C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * B0 * B1 * !C0 * !Y)	0.00023	0.00023	0.00023
	(!A0 * !B1 * C0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B1 * C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !B1 * C0 * !Y)	0.00023	0.00023	0.00023
	(!A0 * !B1 * !C0 * Y)	-0.00027	-0.00027	-0.00027
	(!A0 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * !C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !B1 * !C0 * Y)	0.00006	0.00006	0.00007
	(!A0 * !B0 * B1 * C0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * B1 * C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !B0 * B1 * C0 * !Y)	0.00022	0.00023	0.00023
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00027	-0.00027	-0.00027
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * B1 * !C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !B0 * B1 * !C0 * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X0P7H7H	**(A0 * B0 * B1 * C0 * !Y)**	0.00012	0.00012	0.00012
	(A0 * B0 * B1 * C0 * !Y)	0.00003	0.00003	0.00003
	(A0 * B0 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * C0 * !Y)	-0.00026	-0.00026	-0.00026
	(A0 * B0 * B1 * !C0 * !Y)	0.00012	0.00012	0.00012
	(A0 * B0 * B1 * !C0 * !Y)	0.00003	0.00003	0.00003
	(A0 * B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * !C0 * !Y)	-0.00026	-0.00026	-0.00026
	(A0 * !B1 * C0 * !Y)	0.00011	0.00011	0.00011
	(A0 * !B1 * C0 * !Y)	0.00003	0.00003	0.00003
	(A0 * !B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B1 * C0 * !Y)	-0.00027	-0.00026	-0.00026
	(A0 * !B0 * B1 * C0 * !Y)	0.00011	0.00011	0.00011
	(A0 * !B0 * B1 * C0 * !Y)	0.00003	0.00003	0.00004
	(A0 * !B0 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * B1 * C0 * !Y)	-0.00027	-0.00026	-0.00026
	(!A0 * B0 * B1 * C0 * !Y)	0.00017	0.00017	0.00017
	(!A0 * B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * C0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * B0 * B1 * C0 * !Y)	-0.00023	-0.00022	-0.00021
	(!A0 * B0 * B1 * !C0 * !Y)	0.00017	0.00017	0.00017
	(!A0 * B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * B0 * B1 * !C0 * !Y)	-0.00023	-0.00022	-0.00021
	(!A0 * !B1 * C0 * !Y)	0.00017	0.00017	0.00017
	(!A0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B1 * C0 * !Y)	-0.00023	-0.00022	-0.00021
	(!A0 * !B1 * !C0 * Y)	0.00027	0.00027	0.00027
	(!A0 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !B1 * !C0 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !B0 * B1 * C0 * !Y)	0.00017	0.00017	0.00017
	(!A0 * !B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * B1 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B0 * B1 * C0 * !Y)	-0.00023	-0.00022	-0.00021
	(!A0 * !B0 * B1 * !C0 * Y)	0.00027	0.00027	0.00027
	(!A0 * !B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X0P7H7H	**(A0 * A1 * B1 * C0 * !Y)**	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * C0 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * A1 * B1 * C0 * !Y)	0.00000	0.00000	0.00001
	(A0 * A1 * B1 * C0 * !Y)	0.00023	0.00023	0.00023
	(A0 * A1 * B1 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B1 * !C0 * !Y)	0.00022	0.00023	0.00023
	(A0 * A1 * !B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B1 * C0 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * A1 * !B1 * C0 * !Y)	0.00001	0.00002	0.00002
	(A0 * A1 * !B1 * C0 * !Y)	0.00020	0.00020	0.00020
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * !B1 * !C0 * !Y)	0.00001	0.00002	0.00002
	(A0 * A1 * !B1 * !C0 * !Y)	0.00020	0.00020	0.00020
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	-0.00018	-0.00018	-0.00018
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	0.00001	0.00002	0.00002
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	0.00018	0.00018	0.00018
	(!A1 * B1 * C0 * !Y)	-0.00015	-0.00014	-0.00012
	(!A1 * B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * B1 * C0 * !Y)	0.00021	0.00022	0.00022
	(!A1 * !B1 * !C0 * Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B1 * !C0 * Y)	0.00001	0.00001	0.00002
	(!A1 * !B1 * !C0 * Y)	0.00017	0.00017	0.00018
	(!A0 * A1 * B1 * C0 * !Y)	-0.00015	-0.00014	-0.00012
	(!A0 * A1 * B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * B1 * C0 * !Y)	0.00021	0.00022	0.00022
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00019	-0.00019	-0.00019
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !C0 * Y)	0.00016	0.00017	0.00017

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X0P7H7H	**(A0 * A1 * B1 * C0 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * !Y)	0.00006	0.00006	0.00006
	(A0 * A1 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * C0 * !Y)	-0.00023	-0.00023	-0.00023
	(A0 * A1 * B1 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * !C0 * !Y)	-0.00023	-0.00023	-0.00022
	(A0 * A1 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * !Y)	0.00006	0.00006	0.00006
	(A0 * A1 * !B1 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * !B1 * C0 * !Y)	-0.00020	-0.00019	-0.00018
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00020	-0.00019	-0.00018
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	0.00018	0.00018	0.00018
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	-0.00018	-0.00017	-0.00016
	(!A1 * B1 * C0 * !Y)	0.00015	0.00015	0.00015
	(!A1 * B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B1 * C0 * !Y)	-0.00022	-0.00021	-0.00021
	(!A1 * !B1 * !C0 * Y)	0.00019	0.00019	0.00020
	(!A1 * !B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B1 * !C0 * Y)	-0.00002	-0.00001	-0.00001
	(!A1 * !B1 * !C0 * Y)	-0.00017	-0.00016	-0.00015
	(!A0 * A1 * B1 * C0 * !Y)	0.00015	0.00015	0.00015
	(!A0 * A1 * B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B1 * C0 * !Y)	-0.00022	-0.00021	-0.00021
	(!A0 * A1 * !B1 * !C0 * Y)	0.00019	0.00019	0.00020
	(!A0 * A1 * !B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00017	-0.00016	-0.00015

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X0P7H7H	**(A0 * A1 * B0 * C0 * !Y)**	-0.00000	-0.00000	0.00000
	(A0 * A1 * B0 * C0 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * A1 * B0 * C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B0 * C0 * !Y)	0.00026	0.00026	0.00026
	(A0 * A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B0 * !C0 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B0 * !C0 * !Y)	0.00026	0.00026	0.00026
	(A0 * A1 * !B0 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * C0 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * A1 * !B0 * C0 * !Y)	0.00001	0.00002	0.00002
	(A0 * A1 * !B0 * C0 * !Y)	0.00023	0.00023	0.00023
	(A0 * A1 * !B0 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * !B0 * !C0 * !Y)	0.00001	0.00002	0.00002
	(A0 * A1 * !B0 * !C0 * !Y)	0.00023	0.00023	0.00024
	(!A1 * B0 * C0 * !Y)	-0.00014	-0.00013	-0.00011
	(!A1 * B0 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * C0 * !Y)	0.00000	0.00000	0.00001
	(!A1 * B0 * C0 * !Y)	0.00025	0.00025	0.00025
	(!A1 * !B0 * C0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A1 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * C0 * !Y)	0.00021	0.00021	0.00022
	(!A1 * !B0 * !C0 * Y)	-0.00029	-0.00029	-0.00029
	(!A1 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * !C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * B0 * C0 * !Y)	-0.00014	-0.00013	-0.00011
	(!A0 * A1 * B0 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * B0 * C0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * B0 * C0 * !Y)	0.00025	0.00025	0.00025
	(!A0 * A1 * !B0 * C0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * A1 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * C0 * !Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * !B0 * C0 * !Y)	0.00021	0.00021	0.00022
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00029	-0.00029	-0.00029
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * !C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * !B0 * !C0 * Y)	0.00003	0.00003	0.00003

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X0P7H7H	**(A0 * A1 * B0 * C0 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * !Y)	0.00006	0.00006	0.00006
	(A0 * A1 * B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * C0 * !Y)	-0.00026	-0.00026	-0.00026
	(A0 * A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * !C0 * !Y)	-0.00026	-0.00026	-0.00026
	(A0 * A1 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * C0 * !Y)	0.00006	0.00006	0.00006
	(A0 * A1 * !B0 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * !B0 * C0 * !Y)	-0.00023	-0.00023	-0.00021
	(A0 * A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * !B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * !B0 * !C0 * !Y)	-0.00023	-0.00022	-0.00021
	(!A1 * B0 * C0 * !Y)	0.00014	0.00014	0.00014
	(!A1 * B0 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * C0 * !Y)	-0.00025	-0.00025	-0.00025
	(!A1 * !B0 * C0 * !Y)	0.00017	0.00017	0.00017
	(!A1 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * C0 * !Y)	-0.00022	-0.00021	-0.00019
	(!A1 * !B0 * !C0 * Y)	0.00029	0.00029	0.00029
	(!A1 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C0 * Y)	-0.00003	-0.00003	-0.00002
	(!A1 * !B0 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * B0 * C0 * !Y)	0.00014	0.00014	0.00014
	(!A0 * A1 * B0 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * C0 * !Y)	-0.00025	-0.00025	-0.00025
	(!A0 * A1 * !B0 * C0 * !Y)	0.00017	0.00017	0.00017
	(!A0 * A1 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * C0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * A1 * !B0 * C0 * !Y)	-0.00022	-0.00021	-0.00019
	(!A0 * A1 * !B0 * !C0 * Y)	0.00029	0.00029	0.00029
	(!A0 * A1 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00003	-0.00003	-0.00003

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI221X0P7H7H	(A1 * B0 * B1 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * !Y)	-0.00004	-0.00004	-0.00004
	(A1 * B0 * B1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * B1 * !Y)	0.00036	0.00036	0.00036
	(A0 * A1 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !Y)	-0.00004	-0.00003	-0.00003
	(A0 * A1 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !Y)	0.00035	0.00036	0.00036
	(A0 * A1 * !B0 * B1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !Y)	-0.00004	-0.00003	-0.00004
	(A0 * A1 * !B0 * B1 * !Y)	0.00000	0.00000	0.00001
	(A0 * A1 * !B0 * B1 * !Y)	0.00036	0.00036	0.00036
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * !Y)	0.00035	0.00036	0.00036

Passive power(pJ) for C0 falling (conditional):

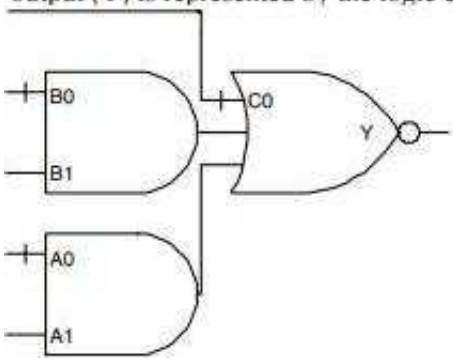
Cell Name	When	Power(pJ)		
		min	avg	max
AOI221X0P7H7H	(A1 * B0 * B1 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !Y)	0.00004	0.00004	0.00004
	(A1 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * !Y)	-0.00036	-0.00036	-0.00035
	(A0 * A1 * !B1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B1 * !Y)	-0.00036	-0.00036	-0.00035
	(A0 * A1 * !B0 * B1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * !B0 * B1 * !Y)	-0.00001	-0.00000	-0.00000
	(A0 * A1 * !B0 * B1 * !Y)	-0.00036	-0.00036	-0.00035
	(!A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	0.00003	0.00003	0.00004
	(!A1 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * !Y)	-0.00036	-0.00035	-0.00035

AOI221X1H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI221 cell provides the logical inverted OR of two AND groups and a third input. The output (Y) is represented by the logic equation:



Truth Table

INPUT					OUTPUT
A0	A1	B0	B1	C0	Y
0	x	0	x	0	1
0	x	x	x	1	0
0	x	1	0	0	1
x	x	1	1	x	0
1	0	0	x	0	1
1	0	x	x	1	0
1	0	1	0	0	1
1	1	x	x	x	0

Footprint

Cell Name	Area
AOI221X1H7H	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	**A1**	**B0**	**B1**	**C0**	**Y**
AOI221X1H7H	0.00089	0.00097	0.00088	0.00101	0.00102	0.01297

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
AOI221X1H7H	0.00000	0.01565	0.03286

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI221X1H7H	A0->Y (FR)	0.11296	0.28573	0.75053
	A1->Y (FR)	0.10540	0.27668	0.74104
	B0->Y (FR)	0.10360	0.27705	0.76012
	B1->Y (FR)	0.09663	0.26783	0.75088
	C0->Y (FR)	0.08470	0.25054	0.72281

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI221X1H7H	A0->Y (RF)	0.04676	0.16075	0.49688
	A1->Y (RF)	0.04464	0.15543	0.49583
	B0->Y (RF)	0.04210	0.15210	0.48583
	B1->Y (RF)	0.04015	0.14637	0.48551
	C0->Y (RF)	0.01944	0.09885	0.37823

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI221X1H7H	A0	0.00217	0.00220	0.00222
	A0	-0.00023	-0.00022	-0.00022
	A0	0.00020	0.00020	0.00020
	A0	0.00004	0.00006	0.00008
	A1	0.00202	0.00206	0.00209
	A1	-0.00022	-0.00022	-0.00022
	A1	0.00015	0.00015	0.00015
	A1	0.00002	0.00006	0.00010
	B0	0.00173	0.00176	0.00178
	B0	-0.00012	-0.00012	-0.00011
	B0	0.00020	0.00020	0.00020
	B0	0.00002	0.00005	0.00006
	B1	0.00157	0.00161	0.00165
	B1	-0.00012	-0.00012	-0.00011
	B1	0.00015	0.00015	0.00015
	B1	0.00002	0.00007	0.00010
	C0	0.00131	0.00136	0.00140
	C0	-0.00003	-0.00003	-0.00001
	C0	0.00020	0.00020	0.00020
	C0	-0.00009	-0.00005	-0.00001

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI221X1H7H	A0	-0.00013	-0.00010	-0.00008
	A0	0.00023	0.00023	0.00023
	A0	-0.00015	-0.00015	-0.00015
	A0	0.00187	0.00191	0.00194
	A1	-0.00014	-0.00011	-0.00008
	A1	0.00023	0.00023	0.00023
	A1	-0.00010	-0.00010	-0.00009
	A1	0.00167	0.00173	0.00176
	B0	-0.00012	-0.00008	-0.00006
	B0	0.00012	0.00012	0.00012
	B0	-0.00015	-0.00015	-0.00015
	B0	0.00158	0.00162	0.00164
	B1	-0.00012	-0.00008	-0.00006
	B1	0.00012	0.00012	0.00013
	B1	-0.00010	-0.00010	-0.00010
	B1	0.00138	0.00142	0.00145
	C0	-0.00015	-0.00011	-0.00008
	C0	0.00003	0.00003	0.00004
	C0	-0.00010	-0.00010	-0.00009
	C0	0.00133	0.00136	0.00139

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X1H7H	**(A1 * B0 * B1 * C0 * !Y)**	-0.00013	-0.00011	-0.00008
	(A1 * B0 * B1 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * B1 * C0 * !Y)	0.00026	0.00026	0.00026
	(A1 * B0 * B1 * !C0 * !Y)	-0.00013	-0.00011	-0.00009
	(A1 * B0 * B1 * !C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * B1 * !C0 * !Y)	0.00026	0.00026	0.00026
	(A1 * !B1 * C0 * !Y)	-0.00013	-0.00011	-0.00008
	(A1 * !B1 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * !B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * !B1 * C0 * !Y)	0.00026	0.00026	0.00026
	(A1 * !B0 * B1 * C0 * !Y)	-0.00013	-0.00011	-0.00008
	(A1 * !B0 * B1 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * B1 * C0 * !Y)	0.00026	0.00026	0.00026
	(!A1 * B0 * B1 * !Y)	-0.00019	-0.00019	-0.00019
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * B1 * !Y)	0.00022	0.00022	0.00022
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	0.00022	0.00022	0.00022
	(!A1 * !B1 * !C0 * Y)	-0.00020	-0.00020	-0.00020
	(!A1 * !B1 * !C0 * Y)	-0.00002	-0.00001	-0.00001
	(!A1 * !B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B1 * !C0 * Y)	0.00020	0.00021	0.00021
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00020	-0.00020	-0.00020
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * B1 * !C0 * Y)	0.00020	0.00020	0.00021

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X1H7H	**(A1 * B0 * B1 * C0 * !Y)**	0.00013	0.00013	0.00013
	(A1 * B0 * B1 * C0 * !Y)	0.00003	0.00003	0.00003
	(A1 * B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * B1 * C0 * !Y)	-0.00026	-0.00026	-0.00026
	(A1 * B0 * B1 * !C0 * !Y)	0.00013	0.00013	0.00013
	(A1 * B0 * B1 * !C0 * !Y)	0.00003	0.00003	0.00003
	(A1 * B0 * B1 * !C0 * !Y)	-0.00001	-0.00000	0.00000
	(A1 * B0 * B1 * !C0 * !Y)	-0.00026	-0.00026	-0.00025
	(A1 * !B1 * C0 * !Y)	0.00013	0.00013	0.00013
	(A1 * !B1 * C0 * !Y)	0.00003	0.00003	0.00003
	(A1 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B1 * C0 * !Y)	-0.00026	-0.00026	-0.00026
	(A1 * !B0 * B1 * C0 * !Y)	0.00013	0.00013	0.00013
	(A1 * !B0 * B1 * C0 * !Y)	0.00003	0.00003	0.00003
	(A1 * !B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * B1 * C0 * !Y)	-0.00026	-0.00026	-0.00026
	(!A1 * B0 * B1 * !Y)	0.00019	0.00019	0.00019
	(!A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * B1 * !Y)	-0.00022	-0.00021	-0.00020
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	0.00019	0.00019	0.00019
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	-0.00022	-0.00021	-0.00020
	(!A1 * !B1 * !C0 * Y)	0.00020	0.00021	0.00021
	(!A1 * !B1 * !C0 * Y)	0.00001	0.00001	0.00002
	(!A1 * !B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B1 * !C0 * Y)	-0.00020	-0.00019	-0.00017
	(!A1 * !B0 * B1 * !C0 * Y)	0.00020	0.00021	0.00022
	(!A1 * !B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00020	-0.00019	-0.00018

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X1H7H	**(A0 * B0 * B1 * C0 * !Y)**	-0.00013	-0.00011	-0.00009
	(A0 * B0 * B1 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * B0 * B1 * C0 * !Y)	0.00028	0.00028	0.00029
	(A0 * B0 * B1 * !C0 * !Y)	-0.00013	-0.00011	-0.00009
	(A0 * B0 * B1 * !C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * B0 * B1 * !C0 * !Y)	0.00028	0.00028	0.00029
	(A0 * !B1 * C0 * !Y)	-0.00013	-0.00011	-0.00008
	(A0 * !B1 * C0 * !Y)	-0.00004	-0.00003	-0.00003
	(A0 * !B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * !B1 * C0 * !Y)	0.00028	0.00029	0.00029
	(A0 * !B0 * B1 * C0 * !Y)	-0.00013	-0.00011	-0.00008
	(A0 * !B0 * B1 * C0 * !Y)	-0.00004	-0.00003	-0.00003
	(A0 * !B0 * B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * B1 * C0 * !Y)	0.00028	0.00029	0.00029
	(!A0 * B0 * B1 * C0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A0 * B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * B0 * B1 * C0 * !Y)	0.00024	0.00025	0.00025
	(!A0 * B0 * B1 * !C0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A0 * B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * B0 * B1 * !C0 * !Y)	0.00024	0.00025	0.00025
	(!A0 * !B1 * C0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !B1 * C0 * !Y)	0.00024	0.00025	0.00025
	(!A0 * !B1 * !C0 * Y)	-0.00029	-0.00029	-0.00029
	(!A0 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * !C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !B1 * !C0 * Y)	0.00006	0.00007	0.00007
	(!A0 * !B0 * B1 * C0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A0 * !B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * B1 * C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !B0 * B1 * C0 * !Y)	0.00025	0.00025	0.00025
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00029	-0.00029	-0.00029
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * B1 * !C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !B0 * B1 * !C0 * Y)	0.00007	0.00007	0.00007

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X1H7H	**(A0 * B0 * B1 * C0 * !Y)**	0.00013	0.00013	0.00013
	(A0 * B0 * B1 * C0 * !Y)	0.00003	0.00003	0.00003
	(A0 * B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * B1 * C0 * !Y)	-0.00028	-0.00028	-0.00028
	(A0 * B0 * B1 * !C0 * !Y)	0.00013	0.00013	0.00013
	(A0 * B0 * B1 * !C0 * !Y)	0.00003	0.00003	0.00003
	(A0 * B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * B1 * !C0 * !Y)	-0.00028	-0.00028	-0.00028
	(A0 * !B1 * C0 * !Y)	0.00013	0.00013	0.00013
	(A0 * !B1 * C0 * !Y)	0.00003	0.00003	0.00004
	(A0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B1 * C0 * !Y)	-0.00029	-0.00028	-0.00028
	(A0 * !B0 * B1 * C0 * !Y)	0.00013	0.00013	0.00013
	(A0 * !B0 * B1 * C0 * !Y)	0.00003	0.00003	0.00004
	(A0 * !B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * B1 * C0 * !Y)	-0.00029	-0.00028	-0.00028
	(!A0 * B0 * B1 * C0 * !Y)	0.00019	0.00019	0.00019
	(!A0 * B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * B0 * B1 * C0 * !Y)	-0.00025	-0.00024	-0.00023
	(!A0 * B0 * B1 * !C0 * !Y)	0.00019	0.00019	0.00019
	(!A0 * B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * B0 * B1 * !C0 * !Y)	-0.00025	-0.00024	-0.00022
	(!A0 * !B1 * C0 * !Y)	0.00019	0.00019	0.00019
	(!A0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B1 * C0 * !Y)	-0.00025	-0.00024	-0.00023
	(!A0 * !B1 * !C0 * Y)	0.00029	0.00029	0.00029
	(!A0 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !B1 * !C0 * Y)	-0.00007	-0.00007	-0.00006
	(!A0 * !B0 * B1 * C0 * !Y)	0.00019	0.00019	0.00019
	(!A0 * !B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * B1 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B0 * B1 * C0 * !Y)	-0.00025	-0.00024	-0.00023
	(!A0 * !B0 * B1 * !C0 * Y)	0.00029	0.00029	0.00029
	(!A0 * !B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X1H7H	**(A0 * A1 * B1 * C0 * !Y)**	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * C0 * !Y)	-0.00008	-0.00008	-0.00008
	(A0 * A1 * B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B1 * C0 * !Y)	0.00025	0.00026	0.00026
	(A0 * A1 * B1 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * A1 * B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B1 * !C0 * !Y)	0.00025	0.00026	0.00026
	(A0 * A1 * !B1 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B1 * C0 * !Y)	-0.00008	-0.00008	-0.00008
	(A0 * A1 * !B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B1 * C0 * !Y)	0.00022	0.00022	0.00022
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * A1 * !B1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B1 * !C0 * !Y)	0.00022	0.00022	0.00022
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	-0.00022	-0.00022	-0.00021
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	0.00019	0.00020	0.00020
	(!A1 * B1 * C0 * !Y)	-0.00017	-0.00015	-0.00013
	(!A1 * B1 * C0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A1 * B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * B1 * C0 * !Y)	0.00024	0.00024	0.00024
	(!A1 * !B1 * !C0 * Y)	-0.00023	-0.00023	-0.00023
	(!A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B1 * !C0 * Y)	0.00018	0.00018	0.00018
	(!A0 * A1 * B1 * C0 * !Y)	-0.00017	-0.00015	-0.00013
	(!A0 * A1 * B1 * C0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * A1 * B1 * C0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * B1 * C0 * !Y)	0.00024	0.00024	0.00024
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00023	-0.00023	-0.00023
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B1 * !C0 * Y)	0.00018	0.00018	0.00018

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X1H7H	**(A0 * A1 * B1 * C0 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * !Y)	0.00008	0.00008	0.00008
	(A0 * A1 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * B1 * C0 * !Y)	-0.00025	-0.00025	-0.00025
	(A0 * A1 * B1 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * !Y)	0.00006	0.00006	0.00007
	(A0 * A1 * B1 * !C0 * !Y)	-0.00001	-0.00000	0.00000
	(A0 * A1 * B1 * !C0 * !Y)	-0.00025	-0.00025	-0.00025
	(A0 * A1 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * !Y)	0.00008	0.00008	0.00008
	(A0 * A1 * !B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B1 * C0 * !Y)	-0.00022	-0.00021	-0.00020
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * !Y)	0.00006	0.00006	0.00006
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00022	-0.00021	-0.00020
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	0.00021	0.00022	0.00022
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	-0.00020	-0.00019	-0.00017
	(!A1 * B1 * C0 * !Y)	0.00017	0.00017	0.00017
	(!A1 * B1 * C0 * !Y)	0.00002	0.00003	0.00003
	(!A1 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B1 * C0 * !Y)	-0.00024	-0.00023	-0.00023
	(!A1 * !B1 * !C0 * Y)	0.00023	0.00024	0.00024
	(!A1 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B1 * !C0 * Y)	-0.00018	-0.00017	-0.00015
	(!A0 * A1 * B1 * C0 * !Y)	0.00017	0.00017	0.00017
	(!A0 * A1 * B1 * C0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * A1 * B1 * C0 * !Y)	-0.00001	-0.00000	-0.00000
	(!A0 * A1 * B1 * C0 * !Y)	-0.00024	-0.00023	-0.00023
	(!A0 * A1 * !B1 * !C0 * Y)	0.00023	0.00024	0.00024
	(!A0 * A1 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00018	-0.00017	-0.00015

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X1H7H	**(A0 * A1 * B0 * C0 * !Y)**	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * C0 * !Y)	-0.00008	-0.00008	-0.00007
	(A0 * A1 * B0 * C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B0 * C0 * !Y)	0.00027	0.00028	0.00028
	(A0 * A1 * B0 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * A1 * B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B0 * !C0 * !Y)	0.00027	0.00028	0.00028
	(A0 * A1 * !B0 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * C0 * !Y)	-0.00007	-0.00007	-0.00007
	(A0 * A1 * !B0 * C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * C0 * !Y)	0.00024	0.00024	0.00024
	(A0 * A1 * !B0 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * A1 * !B0 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * !C0 * !Y)	0.00024	0.00024	0.00024
	(!A1 * B0 * C0 * !Y)	-0.00016	-0.00014	-0.00012
	(!A1 * B0 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1 * B0 * C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * C0 * !Y)	0.00026	0.00026	0.00026
	(!A1 * !B0 * C0 * !Y)	-0.00020	-0.00020	-0.00020
	(!A1 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * C0 * !Y)	0.00022	0.00022	0.00022
	(!A1 * !B0 * !C0 * Y)	-0.00032	-0.00032	-0.00032
	(!A1 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * B0 * C0 * !Y)	-0.00016	-0.00014	-0.00012
	(!A0 * A1 * B0 * C0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * A1 * B0 * C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * B0 * C0 * !Y)	0.00026	0.00026	0.00026
	(!A0 * A1 * !B0 * C0 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * A1 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * !B0 * C0 * !Y)	0.00022	0.00022	0.00022
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00032	-0.00032	-0.00032
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * !C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * !B0 * !C0 * Y)	0.00002	0.00002	0.00003

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X1H7H	**(A0 * A1 * B0 * C0 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * !Y)	0.00007	0.00008	0.00008
	(A0 * A1 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * B0 * C0 * !Y)	-0.00027	-0.00027	-0.00027
	(A0 * A1 * B0 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * !Y)	0.00006	0.00006	0.00006
	(A0 * A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * B0 * !C0 * !Y)	-0.00027	-0.00027	-0.00027
	(A0 * A1 * !B0 * C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * C0 * !Y)	0.00007	0.00007	0.00007
	(A0 * A1 * !B0 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * C0 * !Y)	-0.00024	-0.00023	-0.00022
	(A0 * A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * !Y)	0.00006	0.00006	0.00006
	(A0 * A1 * !B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * !C0 * !Y)	-0.00024	-0.00023	-0.00022
	(!A1 * B0 * C0 * !Y)	0.00016	0.00016	0.00016
	(!A1 * B0 * C0 * !Y)	0.00003	0.00003	0.00003
	(!A1 * B0 * C0 * !Y)	-0.00000	-0.00001	-0.00000
	(!A1 * B0 * C0 * !Y)	-0.00026	-0.00026	-0.00025
	(!A1 * !B0 * C0 * !Y)	0.00020	0.00020	0.00020
	(!A1 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * C0 * !Y)	-0.00022	-0.00021	-0.00020
	(!A1 * !B0 * !C0 * Y)	0.00032	0.00032	0.00032
	(!A1 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * B0 * C0 * !Y)	0.00016	0.00016	0.00016
	(!A0 * A1 * B0 * C0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * A1 * B0 * C0 * !Y)	-0.00001	-0.00000	-0.00000
	(!A0 * A1 * B0 * C0 * !Y)	-0.00026	-0.00026	-0.00025
	(!A0 * A1 * !B0 * C0 * !Y)	0.00020	0.00020	0.00020
	(!A0 * A1 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * !B0 * C0 * !Y)	-0.00022	-0.00021	-0.00019
	(!A0 * A1 * !B0 * !C0 * Y)	0.00032	0.00032	0.00032
	(!A0 * A1 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI221X1H7H	(A1 * B0 * B1 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !Y)	-0.00004	-0.00004	-0.00004
	(A1 * B0 * B1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * B1 * !Y)	0.00037	0.00038	0.00038
	(A0 * A1 * !B1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * !B1 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B1 * !Y)	0.00037	0.00038	0.00038
	(A0 * A1 * !B0 * B1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * !B0 * B1 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B0 * B1 * !Y)	0.00037	0.00038	0.00038
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !Y)	-0.00004	-0.00004	-0.00004
	(!A1 * B0 * B1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	0.00037	0.00038	0.00038

Passive power(pJ) for C0 falling (conditional):

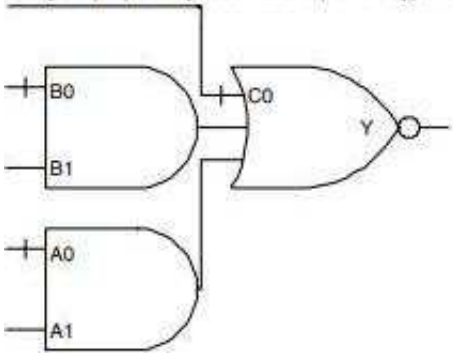
Cell Name	When	Power(pJ)		
		min	avg	max
AOI221X1H7H	(A1 * B0 * B1 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * !Y)	0.00004	0.00004	0.00004
	(A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * B1 * !Y)	-0.00038	-0.00038	-0.00037
	(A0 * A1 * !B1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B1 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * !B1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B1 * !Y)	-0.00038	-0.00037	-0.00037
	(A0 * A1 * !B0 * B1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * !B0 * B1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B0 * B1 * !Y)	-0.00038	-0.00037	-0.00037
	(!A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	0.00004	0.00004	0.00004
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * !Y)	-0.00038	-0.00037	-0.00037

AOI221X1P4H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI221 cell provides the logical inverted OR of two AND groups and a third input. The output (Y) is represented by the logic equation:



Truth Table

INPUT					OUTPUT
A0	A1	B0	B1	C0	Y
0	x	0	x	0	1
0	x	x	x	1	0
0	x	1	0	0	1
x	x	1	1	x	0
1	0	0	x	0	1
1	0	x	x	1	0
1	0	1	0	0	1
1	1	x	x	x	0

Footprint

Cell Name	Area
AOI221X1P4H7H	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	**A1**	**B0**	**B1**	**C0**	**Y**
AOI221X1P4H7H	0.00096	0.00105	0.00096	0.00110	0.00111	0.01479

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
AOI221X1P4H7H	0.00000	0.01984	0.04964

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI221X1P4H7H	A0->Y (FR)	0.10662	0.28083	0.75004
	A1->Y (FR)	0.09916	0.27187	0.74071
	B0->Y (FR)	0.09636	0.27106	0.75885
	B1->Y (FR)	0.08982	0.26232	0.74990
	C0->Y (FR)	0.08028	0.24775	0.72598

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI221X1P4H7H	A0->Y (RF)	0.04459	0.15970	0.50061
	A1->Y (RF)	0.04245	0.15383	0.49811
	B0->Y (RF)	0.03949	0.15028	0.48849
	B1->Y (RF)	0.03773	0.14417	0.48666
	C0->Y (RF)	0.01872	0.09869	0.38222

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI221X1P4H7H	A0	0.00237	0.00239	0.00241
	A0	-0.00026	-0.00026	-0.00025
	A0	0.00023	0.00023	0.00023
	A0	0.00000	0.00003	0.00005
	A1	0.00219	0.00224	0.00227
	A1	-0.00026	-0.00026	-0.00025
	A1	0.00017	0.00017	0.00017
	A1	-0.00001	0.00003	0.00007
	B0	0.00186	0.00188	0.00190
	B0	-0.00015	-0.00014	-0.00012
	B0	0.00023	0.00023	0.00023
	B0	-0.00001	0.00001	0.00003
	B1	0.00168	0.00172	0.00176
	B1	-0.00016	-0.00014	-0.00011
	B1	0.00017	0.00017	0.00017
	B1	-0.00002	0.00003	0.00007
	C0	0.00143	0.00148	0.00153
	C0	-0.00004	-0.00003	-0.00003
	C0	0.00023	0.00023	0.00023
	C0	-0.00010	-0.00006	-0.00001

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI221X1P4H7H	A0	-0.00014	-0.00011	-0.00009
	A0	0.00026	0.00027	0.00027
	A0	-0.00017	-0.00017	-0.00017
	A0	0.00206	0.00211	0.00214
	A1	-0.00016	-0.00012	-0.00009
	A1	0.00026	0.00027	0.00027
	A1	-0.00011	-0.00011	-0.00011
	A1	0.00186	0.00190	0.00194
	B0	-0.00014	-0.00011	-0.00008
	B0	0.00012	0.00014	0.00015
	B0	-0.00017	-0.00017	-0.00017
	B0	0.00172	0.00176	0.00178
	B1	-0.00015	-0.00010	-0.00006
	B1	0.00011	0.00014	0.00016
	B1	-0.00011	-0.00011	-0.00011
	B1	0.00150	0.00154	0.00158
	C0	-0.00017	-0.00012	-0.00009
	C0	0.00003	0.00003	0.00004
	C0	-0.00011	-0.00011	-0.00011
	C0	0.00144	0.00148	0.00152

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X1P4H7H	**(A1 * B0 * B1 * C0 * !Y)**	-0.00015	-0.00013	-0.00010
	(A1 * B0 * B1 * C0 * !Y)	-0.00004	-0.00004	-0.00003
	(A1 * B0 * B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * B1 * C0 * !Y)	0.00028	0.00028	0.00028
	(A1 * B0 * B1 * !C0 * !Y)	-0.00015	-0.00013	-0.00010
	(A1 * B0 * B1 * !C0 * !Y)	-0.00004	-0.00003	-0.00003
	(A1 * B0 * B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * B1 * !C0 * !Y)	0.00027	0.00028	0.00028
	(A1 * !B1 * C0 * !Y)	-0.00015	-0.00012	-0.00009
	(A1 * !B1 * C0 * !Y)	-0.00004	-0.00004	-0.00003
	(A1 * !B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * !B1 * C0 * !Y)	0.00028	0.00028	0.00028
	(A1 * !B0 * B1 * C0 * !Y)	-0.00015	-0.00012	-0.00009
	(A1 * !B0 * B1 * C0 * !Y)	-0.00004	-0.00004	-0.00003
	(A1 * !B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * B1 * C0 * !Y)	0.00028	0.00028	0.00028
	(!A1 * B0 * B1 * !Y)	-0.00021	-0.00021	-0.00021
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * B1 * !Y)	0.00023	0.00024	0.00024
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	-0.00021	-0.00021	-0.00021
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	0.00024	0.00024	0.00024
	(!A1 * !B1 * !C0 * Y)	-0.00023	-0.00023	-0.00022
	(!A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B1 * !C0 * Y)	0.00022	0.00022	0.00023
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00023	-0.00023	-0.00022
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00002	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * B1 * !C0 * Y)	0.00022	0.00022	0.00023

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X1P4H7H	**(A1 * B0 * B1 * C0 * !Y)**	0.00015	0.00015	0.00015
	(A1 * B0 * B1 * C0 * !Y)	0.00004	0.00004	0.00004
	(A1 * B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * B1 * C0 * !Y)	-0.00028	-0.00028	-0.00027
	(A1 * B0 * B1 * !C0 * !Y)	0.00015	0.00015	0.00015
	(A1 * B0 * B1 * !C0 * !Y)	0.00003	0.00003	0.00004
	(A1 * B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * B1 * !C0 * !Y)	-0.00028	-0.00028	-0.00027
	(A1 * !B1 * C0 * !Y)	0.00014	0.00015	0.00015
	(A1 * !B1 * C0 * !Y)	0.00003	0.00004	0.00004
	(A1 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B1 * C0 * !Y)	-0.00028	-0.00028	-0.00027
	(A1 * !B0 * B1 * C0 * !Y)	0.00014	0.00015	0.00015
	(A1 * !B0 * B1 * C0 * !Y)	0.00003	0.00004	0.00004
	(A1 * !B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * B1 * C0 * !Y)	-0.00028	-0.00028	-0.00028
	(!A1 * B0 * B1 * !Y)	0.00021	0.00021	0.00021
	(!A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * B1 * !Y)	-0.00024	-0.00023	-0.00022
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	0.00021	0.00021	0.00021
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	-0.00024	-0.00023	-0.00022
	(!A1 * !B1 * !C0 * Y)	0.00023	0.00023	0.00024
	(!A1 * !B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B1 * !C0 * Y)	-0.00022	-0.00021	-0.00020
	(!A1 * !B0 * B1 * !C0 * Y)	0.00023	0.00023	0.00024
	(!A1 * !B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00022	-0.00021	-0.00020

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X1P4H7H	**(A0 * B0 * B1 * C0 * !Y)**	-0.00015	-0.00013	-0.00010
	(A0 * B0 * B1 * C0 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * B0 * B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * B0 * B1 * C0 * !Y)	0.00030	0.00030	0.00030
	(A0 * B0 * B1 * !C0 * !Y)	-0.00015	-0.00013	-0.00010
	(A0 * B0 * B1 * !C0 * !Y)	-0.00004	-0.00004	-0.00003
	(A0 * B0 * B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * B0 * B1 * !C0 * !Y)	0.00030	0.00030	0.00030
	(A0 * !B1 * C0 * !Y)	-0.00015	-0.00012	-0.00010
	(A0 * !B1 * C0 * !Y)	-0.00004	-0.00004	-0.00003
	(A0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B1 * C0 * !Y)	0.00030	0.00030	0.00030
	(A0 * !B0 * B1 * C0 * !Y)	-0.00015	-0.00012	-0.00009
	(A0 * !B0 * B1 * C0 * !Y)	-0.00004	-0.00004	-0.00003
	(A0 * !B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * B1 * C0 * !Y)	0.00030	0.00030	0.00030
	(!A0 * B0 * B1 * C0 * !Y)	-0.00022	-0.00022	-0.00021
	(!A0 * B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * B0 * B1 * C0 * !Y)	0.00026	0.00026	0.00026
	(!A0 * B0 * B1 * !C0 * !Y)	-0.00022	-0.00022	-0.00021
	(!A0 * B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * B0 * B1 * !C0 * !Y)	0.00026	0.00026	0.00026
	(!A0 * !B1 * C0 * !Y)	-0.00022	-0.00022	-0.00021
	(!A0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !B1 * C0 * !Y)	0.00026	0.00026	0.00026
	(!A0 * !B1 * !C0 * Y)	-0.00033	-0.00032	-0.00032
	(!A0 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * !C0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !B1 * !C0 * Y)	0.00007	0.00007	0.00007
	(!A0 * !B0 * B1 * C0 * !Y)	-0.00022	-0.00022	-0.00021
	(!A0 * !B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * B1 * C0 * !Y)	0.00026	0.00026	0.00026
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00033	-0.00032	-0.00032
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * B1 * !C0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !B0 * B1 * !C0 * Y)	0.00007	0.00007	0.00007

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X1P4H7H	**(A0 * B0 * B1 * C0 * !Y)**	0.00015	0.00015	0.00015
	(A0 * B0 * B1 * C0 * !Y)	0.00004	0.00004	0.00004
	(A0 * B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * B1 * C0 * !Y)	-0.00030	-0.00030	-0.00030
	(A0 * B0 * B1 * !C0 * !Y)	0.00015	0.00015	0.00015
	(A0 * B0 * B1 * !C0 * !Y)	0.00004	0.00004	0.00004
	(A0 * B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * B1 * !C0 * !Y)	-0.00030	-0.00030	-0.00030
	(A0 * !B1 * C0 * !Y)	0.00015	0.00015	0.00015
	(A0 * !B1 * C0 * !Y)	0.00003	0.00004	0.00004
	(A0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B1 * C0 * !Y)	-0.00030	-0.00030	-0.00030
	(A0 * !B0 * B1 * C0 * !Y)	0.00015	0.00015	0.00015
	(A0 * !B0 * B1 * C0 * !Y)	0.00003	0.00004	0.00004
	(A0 * !B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * B1 * C0 * !Y)	-0.00030	-0.00030	-0.00030
	(!A0 * B0 * B1 * C0 * !Y)	0.00021	0.00022	0.00022
	(!A0 * B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * B0 * B1 * C0 * !Y)	-0.00026	-0.00025	-0.00024
	(!A0 * B0 * B1 * !C0 * !Y)	0.00021	0.00022	0.00022
	(!A0 * B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * B0 * B1 * !C0 * !Y)	-0.00026	-0.00025	-0.00023
	(!A0 * !B1 * C0 * !Y)	0.00021	0.00022	0.00022
	(!A0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B1 * C0 * !Y)	-0.00026	-0.00025	-0.00024
	(!A0 * !B1 * !C0 * Y)	0.00032	0.00032	0.00033
	(!A0 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * !C0 * Y)	-0.00004	-0.00003	-0.00003
	(!A0 * !B1 * !C0 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !B0 * B1 * C0 * !Y)	0.00021	0.00022	0.00022
	(!A0 * !B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * B1 * C0 * !Y)	-0.00026	-0.00025	-0.00024
	(!A0 * !B0 * B1 * !C0 * Y)	0.00032	0.00032	0.00033
	(!A0 * !B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00004	-0.00003	-0.00003
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X1P4H7H	**(A0 * A1 * B1 * C0 * !Y)**	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * C0 * !Y)	-0.00009	-0.00009	-0.00009
	(A0 * A1 * B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B1 * C0 * !Y)	0.00027	0.00027	0.00027
	(A0 * A1 * B1 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * !Y)	-0.00007	-0.00007	-0.00007
	(A0 * A1 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B1 * !C0 * !Y)	0.00026	0.00027	0.00027
	(A0 * A1 * !B1 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B1 * C0 * !Y)	-0.00009	-0.00009	-0.00009
	(A0 * A1 * !B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B1 * C0 * !Y)	0.00023	0.00023	0.00023
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00007	-0.00007	-0.00007
	(A0 * A1 * !B1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B1 * !C0 * !Y)	0.00023	0.00023	0.00024
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	-0.00024	-0.00024	-0.00024
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	0.00021	0.00021	0.00021
	(!A1 * B1 * C0 * !Y)	-0.00019	-0.00017	-0.00015
	(!A1 * B1 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1 * B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * B1 * C0 * !Y)	0.00025	0.00025	0.00026
	(!A1 * !B1 * !C0 * Y)	-0.00025	-0.00025	-0.00025
	(!A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B1 * !C0 * Y)	0.00020	0.00020	0.00020
	(!A0 * A1 * B1 * C0 * !Y)	-0.00019	-0.00017	-0.00015
	(!A0 * A1 * B1 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * B1 * C0 * !Y)	0.00025	0.00025	0.00026
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00025	-0.00025	-0.00025
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B1 * !C0 * Y)	0.00020	0.00020	0.00020

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X1P4H7H	**(A0 * A1 * B1 * C0 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * !Y)	0.00009	0.00009	0.00009
	(A0 * A1 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * B1 * C0 * !Y)	-0.00027	-0.00027	-0.00027
	(A0 * A1 * B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * !C0 * !Y)	0.00007	0.00008	0.00008
	(A0 * A1 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B1 * !C0 * !Y)	-0.00027	-0.00027	-0.00026
	(A0 * A1 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * !Y)	0.00009	0.00009	0.00009
	(A0 * A1 * !B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B1 * C0 * !Y)	-0.00023	-0.00022	-0.00021
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * !Y)	0.00007	0.00007	0.00007
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00023	-0.00022	-0.00021
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	0.00024	0.00024	0.00024
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	-0.00021	-0.00020	-0.00019
	(!A1 * B1 * C0 * !Y)	0.00019	0.00019	0.00019
	(!A1 * B1 * C0 * !Y)	0.00003	0.00003	0.00003
	(!A1 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B1 * C0 * !Y)	-0.00025	-0.00025	-0.00025
	(!A1 * !B1 * !C0 * Y)	0.00025	0.00026	0.00026
	(!A1 * !B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B1 * !C0 * Y)	-0.00020	-0.00019	-0.00017
	(!A0 * A1 * B1 * C0 * !Y)	0.00019	0.00019	0.00020
	(!A0 * A1 * B1 * C0 * !Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * B1 * C0 * !Y)	-0.00025	-0.00025	-0.00025
	(!A0 * A1 * !B1 * !C0 * Y)	0.00025	0.00026	0.00026
	(!A0 * A1 * !B1 * !C0 * Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00020	-0.00019	-0.00017

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X1P4H7H	**(A0 * A1 * B0 * C0 * !Y)**	-0.00000	-0.00000	0.00000
	(A0 * A1 * B0 * C0 * !Y)	-0.00009	-0.00009	-0.00009
	(A0 * A1 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * C0 * !Y)	0.00030	0.00030	0.00030
	(A0 * A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * !Y)	-0.00007	-0.00007	-0.00007
	(A0 * A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * !C0 * !Y)	0.00030	0.00030	0.00030
	(A0 * A1 * !B0 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * C0 * !Y)	-0.00008	-0.00008	-0.00008
	(A0 * A1 * !B0 * C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * C0 * !Y)	0.00026	0.00026	0.00026
	(A0 * A1 * !B0 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * !Y)	-0.00007	-0.00006	-0.00006
	(A0 * A1 * !B0 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * !C0 * !Y)	0.00026	0.00026	0.00026
	(!A1 * B0 * C0 * !Y)	-0.00018	-0.00016	-0.00013
	(!A1 * B0 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * C0 * !Y)	0.00028	0.00028	0.00029
	(!A1 * !B0 * C0 * !Y)	-0.00022	-0.00022	-0.00022
	(!A1 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * C0 * !Y)	0.00024	0.00024	0.00024
	(!A1 * !B0 * !C0 * Y)	-0.00035	-0.00035	-0.00035
	(!A1 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * Y)	0.00004	0.00004	0.00004
	(!A1 * !B0 * !C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * B0 * C0 * !Y)	-0.00018	-0.00016	-0.00013
	(!A0 * A1 * B0 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * C0 * !Y)	0.00028	0.00028	0.00029
	(!A0 * A1 * !B0 * C0 * !Y)	-0.00022	-0.00022	-0.00022
	(!A0 * A1 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * !B0 * C0 * !Y)	0.00024	0.00024	0.00024
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00035	-0.00035	-0.00035
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * !C0 * Y)	0.00004	0.00004	0.00004
	(!A0 * A1 * !B0 * !C0 * Y)	0.00003	0.00003	0.00003

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X1P4H7H	**(A0 * A1 * B0 * C0 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * !Y)	0.00009	0.00009	0.00009
	(A0 * A1 * B0 * C0 * !Y)	-0.00001	-0.00000	0.00002
	(A0 * A1 * B0 * C0 * !Y)	-0.00030	-0.00030	-0.00029
	(A0 * A1 * B0 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * !Y)	0.00007	0.00007	0.00007
	(A0 * A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * B0 * !C0 * !Y)	-0.00030	-0.00030	-0.00029
	(A0 * A1 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * C0 * !Y)	0.00008	0.00008	0.00008
	(A0 * A1 * !B0 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * C0 * !Y)	-0.00026	-0.00025	-0.00024
	(A0 * A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * !Y)	0.00006	0.00006	0.00007
	(A0 * A1 * !B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * !C0 * !Y)	-0.00026	-0.00025	-0.00023
	(!A1 * B0 * C0 * !Y)	0.00017	0.00017	0.00018
	(!A1 * B0 * C0 * !Y)	0.00003	0.00003	0.00003
	(!A1 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * C0 * !Y)	-0.00028	-0.00028	-0.00028
	(!A1 * !B0 * C0 * !Y)	0.00022	0.00022	0.00022
	(!A1 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * C0 * !Y)	-0.00024	-0.00023	-0.00022
	(!A1 * !B0 * !C0 * Y)	0.00035	0.00035	0.00035
	(!A1 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * !B0 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * B0 * C0 * !Y)	0.00017	0.00017	0.00018
	(!A0 * A1 * B0 * C0 * !Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * B0 * C0 * !Y)	-0.00028	-0.00028	-0.00028
	(!A0 * A1 * !B0 * C0 * !Y)	0.00022	0.00022	0.00022
	(!A0 * A1 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * !B0 * C0 * !Y)	-0.00024	-0.00023	-0.00022
	(!A0 * A1 * !B0 * !C0 * Y)	0.00035	0.00035	0.00035
	(!A0 * A1 * !B0 * !C0 * Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00003	-0.00003	-0.00003

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI221X1P4H7H	(A1 * B0 * B1 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !Y)	-0.00005	-0.00005	-0.00005
	(A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !Y)	0.00040	0.00040	0.00040
	(A0 * A1 * !B1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !Y)	-0.00005	-0.00005	-0.00004
	(A0 * A1 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !Y)	0.00040	0.00040	0.00040
	(A0 * A1 * !B0 * B1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * !B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * B1 * !Y)	0.00040	0.00040	0.00040
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !Y)	-0.00004	-0.00004	-0.00004
	(!A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	0.00040	0.00040	0.00040

Passive power(pJ) for C0 falling (conditional):

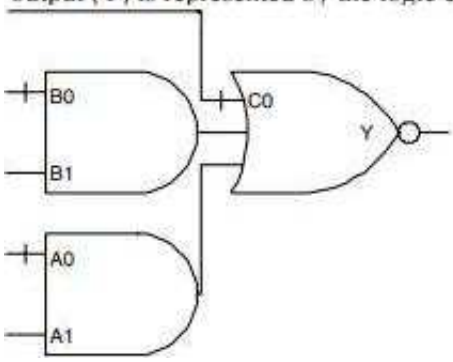
Cell Name	When	Power(pJ)		
		min	avg	max
AOI221X1P4H7H	(A1 * B0 * B1 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !Y)	0.00005	0.00005	0.00005
	(A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !Y)	-0.00040	-0.00040	-0.00039
	(A0 * A1 * !B1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B1 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !Y)	-0.00040	-0.00040	-0.00039
	(A0 * A1 * !B0 * B1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * !B0 * B1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B0 * B1 * !Y)	-0.00040	-0.00040	-0.00039
	(!A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	0.00004	0.00005	0.00005
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !Y)	-0.00040	-0.00040	-0.00039

AOI221X2H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI221 cell provides the logical inverted OR of two AND groups and a third input. The output (Y) is represented by the logic equation:



Truth Table

INPUT					OUTPUT
A0	A1	B0	B1	C0	Y
0	x	0	x	0	1
0	x	x	x	1	0
0	x	1	0	0	1
x	x	1	1	x	0
1	0	0	x	0	1
1	0	x	x	1	0
1	0	1	0	0	1
1	1	x	x	x	0

Footprint

Cell Name	Area
AOI221X2H7H	3.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	**A1**	**B0**	**B1**	**C0**	**Y**
AOI221X2H7H	0.00108	0.00117	0.00107	0.00119	0.00120	0.01713

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
AOI221X2H7H	0.00000	0.02741	0.07901

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI221X2H7H	A0->Y (FR)	0.10277	0.27886	0.75344
	A1->Y (FR)	0.09478	0.26937	0.74362
	B0->Y (FR)	0.09267	0.26913	0.76250
	B1->Y (FR)	0.08507	0.25926	0.75252
	C0->Y (FR)	0.07543	0.24470	0.72762

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI221X2H7H	A0->Y (RF)	0.04166	0.15624	0.49729
	A1->Y (RF)	0.03917	0.14967	0.49240
	B0->Y (RF)	0.03697	0.14700	0.48571
	B1->Y (RF)	0.03443	0.13964	0.48060
	C0->Y (RF)	0.01735	0.09635	0.38022

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI221X2H7H	A0	0.00267	0.00270	0.00273
	A0	-0.00031	-0.00031	-0.00030
	A0	0.00028	0.00028	0.00028
	A0	-0.00001	0.00002	0.00004
	A1	0.00246	0.00251	0.00255
	A1	-0.00031	-0.00031	-0.00030
	A1	0.00021	0.00021	0.00021
	A1	-0.00003	0.00002	0.00006
	B0	0.00209	0.00212	0.00214
	B0	-0.00017	-0.00016	-0.00010
	B0	0.00028	0.00028	0.00028
	B0	-0.00003	-0.00000	0.00002
	B1	0.00187	0.00192	0.00196
	B1	-0.00017	-0.00016	-0.00014
	B1	0.00021	0.00021	0.00021
	B1	-0.00003	0.00002	0.00006
	C0	0.00157	0.00164	0.00170
	C0	-0.00004	-0.00004	-0.00003
	C0	0.00028	0.00028	0.00028
	C0	-0.00012	-0.00007	-0.00002

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI221X2H7H	A0	-0.00017	-0.00013	-0.00011
	A0	0.00031	0.00032	0.00032
	A0	-0.00021	-0.00021	-0.00021
	A0	0.00234	0.00239	0.00242
	A1	-0.00018	-0.00014	-0.00011
	A1	0.00031	0.00032	0.00032
	A1	-0.00014	-0.00014	-0.00013
	A1	0.00208	0.00214	0.00219
	B0	-0.00017	-0.00013	-0.00008
	B0	0.00016	0.00017	0.00019
	B0	-0.00021	-0.00021	-0.00021
	B0	0.00194	0.00199	0.00202
	B1	-0.00017	-0.00013	-0.00007
	B1	0.00016	0.00017	0.00018
	B1	-0.00014	-0.00014	-0.00013
	B1	0.00164	0.00172	0.00176
	C0	-0.00020	-0.00015	-0.00011
	C0	0.00004	0.00004	0.00005
	C0	-0.00014	-0.00013	-0.00013
	C0	0.00160	0.00164	0.00168

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X2H7H	**(A1 * B0 * B1 * C0 * !Y)**	-0.00018	-0.00015	-0.00012
	(A1 * B0 * B1 * C0 * !Y)	-0.00004	-0.00004	-0.00004
	(A1 * B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * C0 * !Y)	0.00030	0.00030	0.00030
	(A1 * B0 * B1 * !C0 * !Y)	-0.00017	-0.00015	-0.00011
	(A1 * B0 * B1 * !C0 * !Y)	-0.00004	-0.00004	-0.00004
	(A1 * B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !C0 * !Y)	0.00030	0.00030	0.00030
	(A1 * !B1 * C0 * !Y)	-0.00017	-0.00014	-0.00011
	(A1 * !B1 * C0 * !Y)	-0.00004	-0.00004	-0.00004
	(A1 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B1 * C0 * !Y)	0.00030	0.00030	0.00030
	(A1 * !B0 * B1 * C0 * !Y)	-0.00017	-0.00014	-0.00011
	(A1 * !B0 * B1 * C0 * !Y)	-0.00004	-0.00004	-0.00004
	(A1 * !B0 * B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * B1 * C0 * !Y)	0.00030	0.00030	0.00030
	(!A1 * B0 * B1 * !Y)	-0.00025	-0.00025	-0.00024
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * B1 * !Y)	0.00025	0.00026	0.00026
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	-0.00025	-0.00025	-0.00024
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	0.00026	0.00026	0.00026
	(!A1 * !B1 * !C0 * Y)	-0.00026	-0.00026	-0.00026
	(!A1 * !B1 * !C0 * Y)	-0.00002	-0.00001	-0.00000
	(!A1 * !B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B1 * !C0 * Y)	0.00024	0.00024	0.00025
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00026	-0.00026	-0.00026
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00002	-0.00001	-0.00000
	(!A1 * !B0 * B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * B1 * !C0 * Y)	0.00024	0.00024	0.00025

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X2H7H	**(A1 * B0 * B1 * C0 * !Y)**	0.00017	0.00017	0.00018
	(A1 * B0 * B1 * C0 * !Y)	0.00004	0.00004	0.00004
	(A1 * B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * C0 * !Y)	-0.00030	-0.00030	-0.00030
	(A1 * B0 * B1 * !C0 * !Y)	0.00017	0.00017	0.00017
	(A1 * B0 * B1 * !C0 * !Y)	0.00004	0.00004	0.00004
	(A1 * B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !C0 * !Y)	-0.00030	-0.00030	-0.00030
	(A1 * !B1 * C0 * !Y)	0.00017	0.00017	0.00017
	(A1 * !B1 * C0 * !Y)	0.00004	0.00004	0.00004
	(A1 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B1 * C0 * !Y)	-0.00030	-0.00030	-0.00030
	(A1 * !B0 * B1 * C0 * !Y)	0.00017	0.00017	0.00017
	(A1 * !B0 * B1 * C0 * !Y)	0.00004	0.00004	0.00004
	(A1 * !B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * B1 * C0 * !Y)	-0.00030	-0.00030	-0.00030
	(!A1 * B0 * B1 * !Y)	0.00024	0.00025	0.00025
	(!A1 * B0 * B1 * !Y)	0.00001	0.00002	0.00002
	(!A1 * B0 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * B1 * !Y)	-0.00026	-0.00024	-0.00023
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	0.00024	0.00025	0.00025
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	0.00001	0.00002	0.00002
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	-0.00026	-0.00025	-0.00023
	(!A1 * !B1 * !C0 * Y)	0.00026	0.00027	0.00027
	(!A1 * !B1 * !C0 * Y)	0.00000	0.00001	0.00002
	(!A1 * !B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B1 * !C0 * Y)	-0.00024	-0.00023	-0.00021
	(!A1 * !B0 * B1 * !C0 * Y)	0.00026	0.00027	0.00028
	(!A1 * !B0 * B1 * !C0 * Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00024	-0.00023	-0.00021

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X2H7H	**(A0 * B0 * B1 * C0 * !Y)**	-0.00018	-0.00015	-0.00012
	(A0 * B0 * B1 * C0 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * C0 * !Y)	0.00032	0.00032	0.00033
	(A0 * B0 * B1 * !C0 * !Y)	-0.00018	-0.00015	-0.00012
	(A0 * B0 * B1 * !C0 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * !C0 * !Y)	0.00032	0.00032	0.00033
	(A0 * !B1 * C0 * !Y)	-0.00017	-0.00014	-0.00011
	(A0 * !B1 * C0 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B1 * C0 * !Y)	0.00032	0.00032	0.00033
	(A0 * !B0 * B1 * C0 * !Y)	-0.00017	-0.00014	-0.00011
	(A0 * !B0 * B1 * C0 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * !B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * B1 * C0 * !Y)	0.00032	0.00032	0.00033
	(!A0 * B0 * B1 * C0 * !Y)	-0.00025	-0.00025	-0.00025
	(!A0 * B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * B0 * B1 * C0 * !Y)	0.00028	0.00028	0.00028
	(!A0 * B0 * B1 * !C0 * !Y)	-0.00025	-0.00025	-0.00025
	(!A0 * B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * B0 * B1 * !C0 * !Y)	0.00028	0.00028	0.00028
	(!A0 * !B1 * C0 * !Y)	-0.00025	-0.00025	-0.00025
	(!A0 * !B1 * C0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !B1 * C0 * !Y)	0.00028	0.00028	0.00028
	(!A0 * !B1 * !C0 * Y)	-0.00037	-0.00036	-0.00036
	(!A0 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * !C0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !B1 * !C0 * Y)	0.00007	0.00007	0.00007
	(!A0 * !B0 * B1 * C0 * !Y)	-0.00025	-0.00025	-0.00025
	(!A0 * !B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * B1 * C0 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !B0 * B1 * C0 * !Y)	0.00028	0.00028	0.00028
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00037	-0.00036	-0.00036
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * B1 * !C0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !B0 * B1 * !C0 * Y)	0.00007	0.00007	0.00007

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X2H7H	**(A0 * B0 * B1 * C0 * !Y)**	0.00017	0.00018	0.00018
	(A0 * B0 * B1 * C0 * !Y)	0.00004	0.00004	0.00004
	(A0 * B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * C0 * !Y)	-0.00033	-0.00032	-0.00032
	(A0 * B0 * B1 * !C0 * !Y)	0.00017	0.00018	0.00018
	(A0 * B0 * B1 * !C0 * !Y)	0.00004	0.00004	0.00004
	(A0 * B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * !C0 * !Y)	-0.00032	-0.00032	-0.00032
	(A0 * !B1 * C0 * !Y)	0.00017	0.00017	0.00017
	(A0 * !B1 * C0 * !Y)	0.00004	0.00004	0.00004
	(A0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B1 * C0 * !Y)	-0.00033	-0.00032	-0.00032
	(A0 * !B0 * B1 * C0 * !Y)	0.00017	0.00017	0.00017
	(A0 * !B0 * B1 * C0 * !Y)	0.00004	0.00004	0.00004
	(A0 * !B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * B1 * C0 * !Y)	-0.00032	-0.00032	-0.00032
	(!A0 * B0 * B1 * C0 * !Y)	0.00025	0.00025	0.00025
	(!A0 * B0 * B1 * C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * B0 * B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * B0 * B1 * C0 * !Y)	-0.00028	-0.00027	-0.00025
	(!A0 * B0 * B1 * !C0 * !Y)	0.00025	0.00025	0.00025
	(!A0 * B0 * B1 * !C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * B0 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * B0 * B1 * !C0 * !Y)	-0.00028	-0.00027	-0.00025
	(!A0 * !B1 * C0 * !Y)	0.00025	0.00025	0.00025
	(!A0 * !B1 * C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B1 * C0 * !Y)	-0.00028	-0.00027	-0.00025
	(!A0 * !B1 * !C0 * Y)	0.00036	0.00036	0.00037
	(!A0 * !B1 * !C0 * Y)	0.00001	0.00002	0.00002
	(!A0 * !B1 * !C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !B1 * !C0 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !B0 * B1 * C0 * !Y)	0.00025	0.00025	0.00025
	(!A0 * !B0 * B1 * C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !B0 * B1 * C0 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * !B0 * B1 * C0 * !Y)	-0.00028	-0.00027	-0.00025
	(!A0 * !B0 * B1 * !C0 * Y)	0.00036	0.00037	0.00037
	(!A0 * !B0 * B1 * !C0 * Y)	0.00001	0.00002	0.00002
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X2H7H	**(A0 * A1 * B1 * C0 * !Y)**	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * !Y)	-0.00011	-0.00011	-0.00011
	(A0 * A1 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B1 * C0 * !Y)	0.00029	0.00029	0.00029
	(A0 * A1 * B1 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * !Y)	-0.00009	-0.00009	-0.00008
	(A0 * A1 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B1 * !C0 * !Y)	0.00029	0.00029	0.00030
	(A0 * A1 * !B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B1 * C0 * !Y)	-0.00011	-0.00011	-0.00010
	(A0 * A1 * !B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B1 * C0 * !Y)	0.00025	0.00025	0.00025
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00008	-0.00008	-0.00008
	(A0 * A1 * !B1 * !C0 * !Y)	0.00002	0.00002	0.00003
	(A0 * A1 * !B1 * !C0 * !Y)	0.00025	0.00026	0.00026
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	-0.00027	-0.00027	-0.00027
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	0.00002	0.00002	0.00003
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	0.00023	0.00023	0.00023
	(!A1 * B1 * C0 * !Y)	-0.00022	-0.00020	-0.00016
	(!A1 * B1 * C0 * !Y)	-0.00004	-0.00004	-0.00004
	(!A1 * B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * B1 * C0 * !Y)	0.00028	0.00028	0.00028
	(!A1 * !B1 * !C0 * Y)	-0.00029	-0.00029	-0.00028
	(!A1 * !B1 * !C0 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B1 * !C0 * Y)	0.00021	0.00022	0.00022
	(!A0 * A1 * B1 * C0 * !Y)	-0.00022	-0.00020	-0.00016
	(!A0 * A1 * B1 * C0 * !Y)	-0.00004	-0.00004	-0.00003
	(!A0 * A1 * B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * B1 * C0 * !Y)	0.00028	0.00028	0.00028
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00029	-0.00029	-0.00029
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00002	-0.00001	0.00000
	(!A0 * A1 * !B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B1 * !C0 * Y)	0.00022	0.00022	0.00023

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X2H7H	**(A0 * A1 * B1 * C0 * !Y)**	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * C0 * !Y)	0.00011	0.00011	0.00011
	(A0 * A1 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B1 * C0 * !Y)	-0.00029	-0.00029	-0.00029
	(A0 * A1 * B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * !C0 * !Y)	0.00009	0.00009	0.00009
	(A0 * A1 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B1 * !C0 * !Y)	-0.00029	-0.00029	-0.00029
	(A0 * A1 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * !Y)	0.00010	0.00011	0.00011
	(A0 * A1 * !B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B1 * C0 * !Y)	-0.00025	-0.00024	-0.00023
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * !Y)	0.00008	0.00008	0.00008
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00003	-0.00002	-0.00002
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00025	-0.00024	-0.00023
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	0.00027	0.00027	0.00027
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	0.00001	0.00002	0.00002
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	-0.00003	-0.00002	-0.00002
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	-0.00023	-0.00022	-0.00021
	(!A1 * B1 * C0 * !Y)	0.00022	0.00022	0.00022
	(!A1 * B1 * C0 * !Y)	0.00004	0.00004	0.00004
	(!A1 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B1 * C0 * !Y)	-0.00028	-0.00028	-0.00027
	(!A1 * !B1 * !C0 * Y)	0.00029	0.00029	0.00030
	(!A1 * !B1 * !C0 * Y)	0.00001	0.00002	0.00002
	(!A1 * !B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B1 * !C0 * Y)	-0.00022	-0.00020	-0.00019
	(!A0 * A1 * B1 * C0 * !Y)	0.00022	0.00022	0.00022
	(!A0 * A1 * B1 * C0 * !Y)	0.00003	0.00004	0.00004
	(!A0 * A1 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * B1 * C0 * !Y)	-0.00028	-0.00028	-0.00027
	(!A0 * A1 * !B1 * !C0 * Y)	0.00029	0.00029	0.00030
	(!A0 * A1 * !B1 * !C0 * Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00022	-0.00020	-0.00019

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X2H7H	**(A0 * A1 * B0 * C0 * !Y)**	-0.00000	-0.00000	0.00000
	(A0 * A1 * B0 * C0 * !Y)	-0.00010	-0.00010	-0.00010
	(A0 * A1 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * C0 * !Y)	0.00031	0.00031	0.00032
	(A0 * A1 * B0 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * !Y)	-0.00008	-0.00008	-0.00008
	(A0 * A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * !C0 * !Y)	0.00031	0.00032	0.00032
	(A0 * A1 * !B0 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * C0 * !Y)	-0.00010	-0.00010	-0.00010
	(A0 * A1 * !B0 * C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * C0 * !Y)	0.00027	0.00027	0.00028
	(A0 * A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * !Y)	-0.00008	-0.00008	-0.00008
	(A0 * A1 * !B0 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * !C0 * !Y)	0.00027	0.00028	0.00028
	(!A1 * B0 * C0 * !Y)	-0.00020	-0.00018	-0.00015
	(!A1 * B0 * C0 * !Y)	-0.00004	-0.00004	-0.00003
	(!A1 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * C0 * !Y)	0.00030	0.00030	0.00030
	(!A1 * !B0 * C0 * !Y)	-0.00025	-0.00025	-0.00025
	(!A1 * !B0 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * C0 * !Y)	0.00002	0.00002	0.00003
	(!A1 * !B0 * C0 * !Y)	0.00026	0.00026	0.00026
	(!A1 * !B0 * !C0 * Y)	-0.00039	-0.00039	-0.00038
	(!A1 * !B0 * !C0 * Y)	-0.00002	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * Y)	0.00004	0.00004	0.00004
	(!A1 * !B0 * !C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * B0 * C0 * !Y)	-0.00020	-0.00018	-0.00015
	(!A0 * A1 * B0 * C0 * !Y)	-0.00004	-0.00004	-0.00003
	(!A0 * A1 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * C0 * !Y)	0.00030	0.00030	0.00030
	(!A0 * A1 * !B0 * C0 * !Y)	-0.00025	-0.00025	-0.00025
	(!A0 * A1 * !B0 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * !B0 * C0 * !Y)	0.00002	0.00002	0.00003
	(!A0 * A1 * !B0 * C0 * !Y)	0.00026	0.00026	0.00026
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00039	-0.00039	-0.00038
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * !B0 * !C0 * Y)	0.00004	0.00004	0.00004
	(!A0 * A1 * !B0 * !C0 * Y)	0.00003	0.00003	0.00003

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X2H7H	**(A0 * A1 * B0 * C0 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * !Y)	0.00010	0.00010	0.00010
	(A0 * A1 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B0 * C0 * !Y)	-0.00031	-0.00031	-0.00031
	(A0 * A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * !Y)	0.00008	0.00008	0.00008
	(A0 * A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B0 * !C0 * !Y)	-0.00032	-0.00031	-0.00031
	(A0 * A1 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * C0 * !Y)	0.00010	0.00010	0.00010
	(A0 * A1 * !B0 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * C0 * !Y)	-0.00027	-0.00026	-0.00024
	(A0 * A1 * !B0 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * !Y)	0.00008	0.00008	0.00008
	(A0 * A1 * !B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * !C0 * !Y)	-0.00028	-0.00026	-0.00025
	(!A1 * B0 * C0 * !Y)	0.00020	0.00020	0.00020
	(!A1 * B0 * C0 * !Y)	0.00003	0.00004	0.00004
	(!A1 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * C0 * !Y)	-0.00030	-0.00030	-0.00030
	(!A1 * !B0 * C0 * !Y)	0.00025	0.00025	0.00025
	(!A1 * !B0 * C0 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * C0 * !Y)	-0.00003	-0.00002	-0.00002
	(!A1 * !B0 * C0 * !Y)	-0.00026	-0.00025	-0.00023
	(!A1 * !B0 * !C0 * Y)	0.00039	0.00039	0.00039
	(!A1 * !B0 * !C0 * Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * !B0 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * B0 * C0 * !Y)	0.00020	0.00020	0.00020
	(!A0 * A1 * B0 * C0 * !Y)	0.00003	0.00004	0.00004
	(!A0 * A1 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * C0 * !Y)	-0.00030	-0.00030	-0.00029
	(!A0 * A1 * !B0 * C0 * !Y)	0.00025	0.00025	0.00025
	(!A0 * A1 * !B0 * C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * !B0 * C0 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * A1 * !B0 * C0 * !Y)	-0.00026	-0.00025	-0.00023
	(!A0 * A1 * !B0 * !C0 * Y)	0.00039	0.00039	0.00039
	(!A0 * A1 * !B0 * !C0 * Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00003	-0.00003	-0.00003

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI221X2H7H	(A1 * B0 * B1 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * !Y)	-0.00006	-0.00006	-0.00005
	(A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !Y)	0.00042	0.00042	0.00043
	(A0 * A1 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !Y)	0.00042	0.00042	0.00043
	(A0 * A1 * !B0 * B1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * !B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * B1 * !Y)	0.00042	0.00042	0.00043
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !Y)	-0.00005	-0.00005	-0.00005
	(!A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	0.00042	0.00042	0.00043

Passive power(pJ) for C0 falling (conditional):

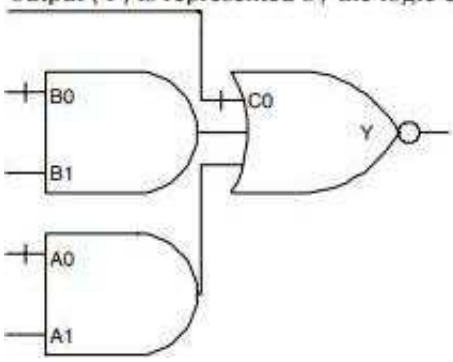
Cell Name	When	Power(pJ)		
		min	avg	max
AOI221X2H7H	(A1 * B0 * B1 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !Y)	0.00006	0.00006	0.00006
	(A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !Y)	-0.00043	-0.00042	-0.00042
	(A0 * A1 * !B1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B1 * !Y)	0.00005	0.00006	0.00006
	(A0 * A1 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !Y)	-0.00042	-0.00042	-0.00042
	(A0 * A1 * !B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !Y)	0.00005	0.00006	0.00006
	(A0 * A1 * !B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * B1 * !Y)	-0.00043	-0.00042	-0.00042
	(!A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	0.00005	0.00005	0.00005
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !Y)	-0.00042	-0.00042	-0.00042

AOI221X3H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI221 cell provides the logical inverted OR of two AND groups and a third input. The output (Y) is represented by the logic equation:



Truth Table

INPUT					OUTPUT
A0	A1	B0	B1	C0	Y
0	x	0	x	0	1
0	x	x	x	1	0
0	x	1	0	0	1
x	x	1	1	x	0
1	0	0	x	0	1
1	0	x	x	1	0
1	0	1	0	0	1
1	1	x	x	x	0

Footprint

Cell Name	Area
AOI221X3H7H	4.48000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	**A1**	**B0**	**B1**	**C0**	**Y**
AOI221X3H7H	0.00187	0.00185	0.00182	0.00211	0.00201	0.02734

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
AOI221X3H7H	0.00000	0.03462	0.07949

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI221X3H7H	A0->Y (FR)	0.09933	0.27511	0.74941
	A1->Y (FR)	0.09148	0.26534	0.73908
	B0->Y (FR)	0.08940	0.26497	0.75816
	B1->Y (FR)	0.08243	0.25560	0.74887
	C0->Y (FR)	0.07195	0.24056	0.72350

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI221X3H7H	A0->Y (RF)	0.04001	0.15448	0.49563
	A1->Y (RF)	0.03717	0.14808	0.49322
	B0->Y (RF)	0.03526	0.14471	0.48375
	B1->Y (RF)	0.03339	0.13861	0.48263
	C0->Y (RF)	0.01663	0.09439	0.37789

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI221X3H7H	A0	0.00434	0.00439	0.00442
	A0	-0.00047	-0.00047	-0.00046
	A0	0.00042	0.00043	0.00043
	A0	-0.00009	-0.00004	-0.00000
	A1	0.00396	0.00404	0.00411
	A1	-0.00047	-0.00047	-0.00046
	A1	0.00031	0.00032	0.00032
	A1	-0.00004	0.00004	0.00011
	B0	0.00338	0.00343	0.00348
	B0	-0.00025	-0.00025	-0.00016
	B0	0.00042	0.00043	0.00043
	B0	-0.00012	-0.00007	-0.00003
	B1	0.00312	0.00320	0.00328
	B1	-0.00027	-0.00025	-0.00020
	B1	0.00031	0.00032	0.00032
	B1	-0.00008	-0.00000	0.00008
	C0	0.00255	0.00266	0.00276
	C0	-0.00007	-0.00006	0.00000
	C0	0.00042	0.00042	0.00043
	C0	-0.00029	-0.00022	-0.00013

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI221X3H7H	A0	-0.00027	-0.00021	-0.00017
	A0	0.00048	0.00049	0.00049
	A0	-0.00032	-0.00032	-0.00031
	A0	0.00388	0.00396	0.00402
	A1	-0.00028	-0.00021	-0.00017
	A1	0.00048	0.00048	0.00049
	A1	-0.00021	-0.00020	-0.00020
	A1	0.00337	0.00346	0.00353
	B0	-0.00027	-0.00021	-0.00014
	B0	0.00025	0.00025	0.00030
	B0	-0.00032	-0.00032	-0.00031
	B0	0.00323	0.00330	0.00335
	B1	-0.00036	-0.00028	-0.00023
	B1	0.00022	0.00025	0.00035
	B1	-0.00021	-0.00020	-0.00020
	B1	0.00274	0.00284	0.00290
	C0	-0.00031	-0.00022	-0.00008
	C0	0.00005	0.00007	0.00015
	C0	-0.00021	-0.00020	-0.00020
	C0	0.00273	0.00280	0.00286

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X3H7H	**(A1 * B0 * B1 * C0 * !Y)**	-0.00028	-0.00024	-0.00018
	(A1 * B0 * B1 * C0 * !Y)	-0.00007	-0.00007	-0.00007
	(A1 * B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * C0 * !Y)	0.00056	0.00056	0.00056
	(A1 * B0 * B1 * !C0 * !Y)	-0.00028	-0.00024	-0.00018
	(A1 * B0 * B1 * !C0 * !Y)	-0.00007	-0.00007	-0.00007
	(A1 * B0 * B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * B1 * !C0 * !Y)	0.00056	0.00056	0.00057
	(A1 * !B1 * C0 * !Y)	-0.00027	-0.00023	-0.00017
	(A1 * !B1 * C0 * !Y)	-0.00007	-0.00007	-0.00006
	(A1 * !B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * !B1 * C0 * !Y)	0.00056	0.00057	0.00058
	(A1 * !B0 * B1 * C0 * !Y)	-0.00027	-0.00023	-0.00017
	(A1 * !B0 * B1 * C0 * !Y)	-0.00007	-0.00007	-0.00006
	(A1 * !B0 * B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * B1 * C0 * !Y)	0.00056	0.00057	0.00057
	(!A1 * B0 * B1 * !Y)	-0.00041	-0.00040	-0.00040
	(!A1 * B0 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * B1 * !Y)	0.00004	0.00004	0.00004
	(!A1 * B0 * B1 * !Y)	0.00048	0.00048	0.00048
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	-0.00041	-0.00040	-0.00040
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	-0.00002	-0.00002	-0.00000
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	0.00004	0.00004	0.00004
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	0.00048	0.00048	0.00049
	(!A1 * !B1 * !C0 * Y)	-0.00042	-0.00042	-0.00042
	(!A1 * !B1 * !C0 * Y)	-0.00003	-0.00002	-0.00000
	(!A1 * !B1 * !C0 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B1 * !C0 * Y)	0.00047	0.00047	0.00047
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00042	-0.00042	-0.00042
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00003	-0.00002	-0.00001
	(!A1 * !B0 * B1 * !C0 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * B1 * !C0 * Y)	0.00047	0.00047	0.00047

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X3H7H	**(A1 * B0 * B1 * C0 * !Y)**	0.00028	0.00028	0.00028
	(A1 * B0 * B1 * C0 * !Y)	0.00007	0.00007	0.00007
	(A1 * B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * C0 * !Y)	-0.00056	-0.00056	-0.00055
	(A1 * B0 * B1 * !C0 * !Y)	0.00028	0.00028	0.00028
	(A1 * B0 * B1 * !C0 * !Y)	0.00007	0.00007	0.00007
	(A1 * B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	0.00000
	(A1 * B0 * B1 * !C0 * !Y)	-0.00056	-0.00056	-0.00055
	(A1 * !B1 * C0 * !Y)	0.00027	0.00027	0.00027
	(A1 * !B1 * C0 * !Y)	0.00006	0.00007	0.00007
	(A1 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B1 * C0 * !Y)	-0.00057	-0.00056	-0.00056
	(A1 * !B0 * B1 * C0 * !Y)	0.00027	0.00027	0.00027
	(A1 * !B0 * B1 * C0 * !Y)	0.00006	0.00007	0.00007
	(A1 * !B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * B1 * C0 * !Y)	-0.00057	-0.00056	-0.00056
	(!A1 * B0 * B1 * !Y)	0.00040	0.00040	0.00041
	(!A1 * B0 * B1 * !Y)	0.00002	0.00003	0.00003
	(!A1 * B0 * B1 * !Y)	-0.00004	-0.00004	-0.00004
	(!A1 * B0 * B1 * !Y)	-0.00048	-0.00047	-0.00044
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	0.00040	0.00040	0.00041
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	0.00002	0.00003	0.00003
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	-0.00004	-0.00004	-0.00004
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	-0.00048	-0.00047	-0.00044
	(!A1 * !B1 * !C0 * Y)	0.00042	0.00043	0.00045
	(!A1 * !B1 * !C0 * Y)	0.00002	0.00003	0.00003
	(!A1 * !B1 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B1 * !C0 * Y)	-0.00047	-0.00045	-0.00042
	(!A1 * !B0 * B1 * !C0 * Y)	0.00042	0.00043	0.00045
	(!A1 * !B0 * B1 * !C0 * Y)	0.00002	0.00003	0.00004
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00047	-0.00045	-0.00042

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X3H7H	**(A0 * B0 * B1 * C0 * !Y)**	-0.00026	-0.00022	-0.00017
	(A0 * B0 * B1 * C0 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * B0 * B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * B0 * B1 * C0 * !Y)	0.00054	0.00054	0.00054
	(A0 * B0 * B1 * !C0 * !Y)	-0.00026	-0.00022	-0.00017
	(A0 * B0 * B1 * !C0 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * !C0 * !Y)	0.00054	0.00054	0.00054
	(A0 * !B1 * C0 * !Y)	-0.00025	-0.00021	-0.00017
	(A0 * !B1 * C0 * !Y)	-0.00007	-0.00006	-0.00006
	(A0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B1 * C0 * !Y)	0.00054	0.00055	0.00055
	(A0 * !B0 * B1 * C0 * !Y)	-0.00025	-0.00021	-0.00017
	(A0 * !B0 * B1 * C0 * !Y)	-0.00007	-0.00006	-0.00006
	(A0 * !B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * B1 * C0 * !Y)	0.00054	0.00055	0.00055
	(!A0 * B0 * B1 * C0 * !Y)	-0.00035	-0.00035	-0.00035
	(!A0 * B0 * B1 * C0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * B0 * B1 * C0 * !Y)	0.00004	0.00004	0.00004
	(!A0 * B0 * B1 * C0 * !Y)	0.00046	0.00046	0.00047
	(!A0 * B0 * B1 * !C0 * !Y)	-0.00035	-0.00035	-0.00035
	(!A0 * B0 * B1 * !C0 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * B0 * B1 * !C0 * !Y)	0.00004	0.00004	0.00004
	(!A0 * B0 * B1 * !C0 * !Y)	0.00046	0.00046	0.00047
	(!A0 * !B1 * C0 * !Y)	-0.00035	-0.00035	-0.00035
	(!A0 * !B1 * C0 * !Y)	-0.00003	-0.00002	-0.00001
	(!A0 * !B1 * C0 * !Y)	0.00004	0.00004	0.00004
	(!A0 * !B1 * C0 * !Y)	0.00046	0.00047	0.00047
	(!A0 * !B1 * !C0 * Y)	-0.00056	-0.00056	-0.00055
	(!A0 * !B1 * !C0 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !B1 * !C0 * Y)	0.00007	0.00007	0.00007
	(!A0 * !B1 * !C0 * Y)	0.00010	0.00010	0.00011
	(!A0 * !B0 * B1 * C0 * !Y)	-0.00035	-0.00035	-0.00035
	(!A0 * !B0 * B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * B1 * C0 * !Y)	0.00003	0.00004	0.00004
	(!A0 * !B0 * B1 * C0 * !Y)	0.00046	0.00046	0.00047
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00056	-0.00056	-0.00055
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !B0 * B1 * !C0 * Y)	0.00007	0.00007	0.00007
	(!A0 * !B0 * B1 * !C0 * Y)	0.00010	0.00010	0.00011

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X3H7H	**(A0 * B0 * B1 * C0 * !Y)**	0.00026	0.00026	0.00026
	(A0 * B0 * B1 * C0 * !Y)	0.00006	0.00006	0.00006
	(A0 * B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * B1 * C0 * !Y)	-0.00054	-0.00054	-0.00053
	(A0 * B0 * B1 * !C0 * !Y)	0.00026	0.00026	0.00026
	(A0 * B0 * B1 * !C0 * !Y)	0.00006	0.00006	0.00006
	(A0 * B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * !C0 * !Y)	-0.00054	-0.00054	-0.00054
	(A0 * !B1 * C0 * !Y)	0.00025	0.00025	0.00025
	(A0 * !B1 * C0 * !Y)	0.00006	0.00006	0.00007
	(A0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B1 * C0 * !Y)	-0.00054	-0.00054	-0.00054
	(A0 * !B0 * B1 * C0 * !Y)	0.00025	0.00025	0.00025
	(A0 * !B0 * B1 * C0 * !Y)	0.00006	0.00006	0.00007
	(A0 * !B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * B1 * C0 * !Y)	-0.00054	-0.00054	-0.00054
	(!A0 * B0 * B1 * C0 * !Y)	0.00035	0.00035	0.00035
	(!A0 * B0 * B1 * C0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * B0 * B1 * C0 * !Y)	-0.00004	-0.00004	-0.00003
	(!A0 * B0 * B1 * C0 * !Y)	-0.00047	-0.00045	-0.00042
	(!A0 * B0 * B1 * !C0 * !Y)	0.00035	0.00035	0.00035
	(!A0 * B0 * B1 * !C0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * B0 * B1 * !C0 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * B0 * B1 * !C0 * !Y)	-0.00047	-0.00044	-0.00041
	(!A0 * !B1 * C0 * !Y)	0.00035	0.00035	0.00035
	(!A0 * !B1 * C0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !B1 * C0 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !B1 * C0 * !Y)	-0.00047	-0.00045	-0.00042
	(!A0 * !B1 * !C0 * Y)	0.00055	0.00056	0.00056
	(!A0 * !B1 * !C0 * Y)	0.00002	0.00003	0.00003
	(!A0 * !B1 * !C0 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !B1 * !C0 * Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !B0 * B1 * C0 * !Y)	0.00035	0.00035	0.00035
	(!A0 * !B0 * B1 * C0 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !B0 * B1 * C0 * !Y)	-0.00004	-0.00004	-0.00003
	(!A0 * !B0 * B1 * C0 * !Y)	-0.00047	-0.00045	-0.00042
	(!A0 * !B0 * B1 * !C0 * Y)	0.00055	0.00056	0.00056
	(!A0 * !B0 * B1 * !C0 * Y)	0.00002	0.00003	0.00003
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00011	-0.00010	-0.00010

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X3H7H	**(A0 * A1 * B1 * C0 * !Y)**	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * !Y)	-0.00015	-0.00015	-0.00015
	(A0 * A1 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B1 * C0 * !Y)	0.00058	0.00058	0.00058
	(A0 * A1 * B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * !C0 * !Y)	-0.00012	-0.00012	-0.00012
	(A0 * A1 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B1 * !C0 * !Y)	0.00058	0.00058	0.00058
	(A0 * A1 * !B1 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B1 * C0 * !Y)	-0.00015	-0.00015	-0.00015
	(A0 * A1 * !B1 * C0 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * !B1 * C0 * !Y)	0.00051	0.00051	0.00051
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00012	-0.00012	-0.00011
	(A0 * A1 * !B1 * !C0 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * !B1 * !C0 * !Y)	0.00051	0.00052	0.00052
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	-0.00040	-0.00040	-0.00040
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	0.00003	0.00004	0.00004
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	0.00046	0.00047	0.00047
	(!A1 * B1 * C0 * !Y)	-0.00031	-0.00028	-0.00022
	(!A1 * B1 * C0 * !Y)	-0.00006	-0.00006	-0.00005
	(!A1 * B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * B1 * C0 * !Y)	0.00055	0.00056	0.00056
	(!A1 * !B1 * !C0 * Y)	-0.00045	-0.00045	-0.00045
	(!A1 * !B1 * !C0 * Y)	-0.00003	-0.00002	-0.00001
	(!A1 * !B1 * !C0 * Y)	0.00003	0.00003	0.00004
	(!A1 * !B1 * !C0 * Y)	0.00041	0.00042	0.00043
	(!A0 * A1 * B1 * C0 * !Y)	-0.00031	-0.00028	-0.00022
	(!A0 * A1 * B1 * C0 * !Y)	-0.00006	-0.00006	-0.00005
	(!A0 * A1 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B1 * C0 * !Y)	0.00055	0.00055	0.00056
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00045	-0.00045	-0.00045
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00003	-0.00002	-0.00002
	(!A0 * A1 * !B1 * !C0 * Y)	0.00003	0.00003	0.00004
	(!A0 * A1 * !B1 * !C0 * Y)	0.00041	0.00042	0.00043

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X3H7H	**(A0 * A1 * B1 * C0 * !Y)**	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * C0 * !Y)	0.00015	0.00015	0.00015
	(A0 * A1 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B1 * C0 * !Y)	-0.00058	-0.00058	-0.00057
	(A0 * A1 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * !Y)	0.00012	0.00012	0.00012
	(A0 * A1 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B1 * !C0 * !Y)	-0.00058	-0.00058	-0.00057
	(A0 * A1 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * !Y)	0.00015	0.00015	0.00015
	(A0 * A1 * !B1 * C0 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * !B1 * C0 * !Y)	-0.00051	-0.00049	-0.00047
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * !Y)	0.00011	0.00012	0.00012
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00052	-0.00050	-0.00047
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	0.00040	0.00040	0.00040
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	0.00002	0.00003	0.00003
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	-0.00004	-0.00004	-0.00003
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	-0.00047	-0.00045	-0.00043
	(!A1 * B1 * C0 * !Y)	0.00031	0.00031	0.00031
	(!A1 * B1 * C0 * !Y)	0.00005	0.00006	0.00006
	(!A1 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B1 * C0 * !Y)	-0.00055	-0.00055	-0.00054
	(!A1 * !B1 * !C0 * Y)	0.00045	0.00045	0.00047
	(!A1 * !B1 * !C0 * Y)	0.00001	0.00002	0.00003
	(!A1 * !B1 * !C0 * Y)	-0.00004	-0.00003	-0.00003
	(!A1 * !B1 * !C0 * Y)	-0.00042	-0.00040	-0.00038
	(!A0 * A1 * B1 * C0 * !Y)	0.00031	0.00031	0.00031
	(!A0 * A1 * B1 * C0 * !Y)	0.00005	0.00006	0.00006
	(!A0 * A1 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B1 * C0 * !Y)	-0.00055	-0.00055	-0.00054
	(!A0 * A1 * !B1 * !C0 * Y)	0.00045	0.00045	0.00047
	(!A0 * A1 * !B1 * !C0 * Y)	0.00002	0.00003	0.00004
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00004	-0.00003	-0.00003
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00042	-0.00040	-0.00036

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X3H7H	**(A0 * A1 * B0 * C0 * !Y)**	-0.00000	-0.00000	0.00000
	(A0 * A1 * B0 * C0 * !Y)	-0.00017	-0.00017	-0.00017
	(A0 * A1 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * C0 * !Y)	0.00057	0.00057	0.00057
	(A0 * A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * !Y)	-0.00014	-0.00014	-0.00014
	(A0 * A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * !C0 * !Y)	0.00057	0.00057	0.00057
	(A0 * A1 * !B0 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * C0 * !Y)	-0.00017	-0.00017	-0.00016
	(A0 * A1 * !B0 * C0 * !Y)	0.00003	0.00004	0.00004
	(A0 * A1 * !B0 * C0 * !Y)	0.00050	0.00050	0.00050
	(A0 * A1 * !B0 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * !Y)	-0.00013	-0.00013	-0.00013
	(A0 * A1 * !B0 * !C0 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * !B0 * !C0 * !Y)	0.00050	0.00051	0.00051
	(!A1 * B0 * C0 * !Y)	-0.00038	-0.00034	-0.00029
	(!A1 * B0 * C0 * !Y)	-0.00006	-0.00006	-0.00005
	(!A1 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * C0 * !Y)	0.00053	0.00054	0.00055
	(!A1 * !B0 * C0 * !Y)	-0.00047	-0.00047	-0.00046
	(!A1 * !B0 * C0 * !Y)	-0.00003	-0.00002	-0.00002
	(!A1 * !B0 * C0 * !Y)	0.00004	0.00004	0.00004
	(!A1 * !B0 * C0 * !Y)	0.00045	0.00045	0.00045
	(!A1 * !B0 * !C0 * Y)	-0.00070	-0.00069	-0.00069
	(!A1 * !B0 * !C0 * Y)	-0.00003	-0.00002	-0.00002
	(!A1 * !B0 * !C0 * Y)	0.00007	0.00007	0.00007
	(!A1 * !B0 * !C0 * Y)	0.00006	0.00006	0.00006
	(!A0 * A1 * B0 * C0 * !Y)	-0.00038	-0.00034	-0.00029
	(!A0 * A1 * B0 * C0 * !Y)	-0.00006	-0.00006	-0.00005
	(!A0 * A1 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * C0 * !Y)	0.00053	0.00054	0.00055
	(!A0 * A1 * !B0 * C0 * !Y)	-0.00047	-0.00047	-0.00046
	(!A0 * A1 * !B0 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B0 * C0 * !Y)	0.00003	0.00003	0.00004
	(!A0 * A1 * !B0 * C0 * !Y)	0.00044	0.00045	0.00045
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00070	-0.00069	-0.00069
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00003	-0.00002	-0.00002
	(!A0 * A1 * !B0 * !C0 * Y)	0.00007	0.00007	0.00007
	(!A0 * A1 * !B0 * !C0 * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X3H7H	**(A0 * A1 * B0 * C0 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * !Y)	0.00017	0.00017	0.00017
	(A0 * A1 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B0 * C0 * !Y)	-0.00057	-0.00057	-0.00056
	(A0 * A1 * B0 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * !Y)	0.00014	0.00014	0.00014
	(A0 * A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B0 * !C0 * !Y)	-0.00057	-0.00057	-0.00056
	(A0 * A1 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * C0 * !Y)	0.00016	0.00017	0.00017
	(A0 * A1 * !B0 * C0 * !Y)	-0.00004	-0.00004	-0.00003
	(A0 * A1 * !B0 * C0 * !Y)	-0.00050	-0.00048	-0.00045
	(A0 * A1 * !B0 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * !Y)	0.00013	0.00013	0.00013
	(A0 * A1 * !B0 * !C0 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * !B0 * !C0 * !Y)	-0.00050	-0.00049	-0.00046
	(!A1 * B0 * C0 * !Y)	0.00038	0.00038	0.00038
	(!A1 * B0 * C0 * !Y)	0.00005	0.00006	0.00006
	(!A1 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * C0 * !Y)	-0.00053	-0.00053	-0.00052
	(!A1 * !B0 * C0 * !Y)	0.00046	0.00047	0.00047
	(!A1 * !B0 * C0 * !Y)	0.00002	0.00003	0.00003
	(!A1 * !B0 * C0 * !Y)	-0.00004	-0.00004	-0.00004
	(!A1 * !B0 * C0 * !Y)	-0.00045	-0.00043	-0.00040
	(!A1 * !B0 * !C0 * Y)	0.00069	0.00069	0.00070
	(!A1 * !B0 * !C0 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * !C0 * Y)	-0.00007	-0.00007	-0.00007
	(!A1 * !B0 * !C0 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * A1 * B0 * C0 * !Y)	0.00038	0.00038	0.00038
	(!A0 * A1 * B0 * C0 * !Y)	0.00006	0.00006	0.00006
	(!A0 * A1 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * C0 * !Y)	-0.00053	-0.00053	-0.00053
	(!A0 * A1 * !B0 * C0 * !Y)	0.00046	0.00047	0.00047
	(!A0 * A1 * !B0 * C0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * A1 * !B0 * C0 * !Y)	-0.00004	-0.00003	-0.00003
	(!A0 * A1 * !B0 * C0 * !Y)	-0.00045	-0.00043	-0.00040
	(!A0 * A1 * !B0 * !C0 * Y)	0.00069	0.00069	0.00070
	(!A0 * A1 * !B0 * !C0 * Y)	0.00002	0.00003	0.00003
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI221X3H7H	(A1 * B0 * B1 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !Y)	-0.00008	-0.00008	-0.00008
	(A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !Y)	0.00077	0.00077	0.00077
	(A0 * A1 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !Y)	-0.00008	-0.00008	-0.00008
	(A0 * A1 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !Y)	0.00076	0.00077	0.00077
	(A0 * A1 * !B0 * B1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !Y)	-0.00008	-0.00008	-0.00008
	(A0 * A1 * !B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * B1 * !Y)	0.00077	0.00077	0.00077
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !Y)	-0.00008	-0.00008	-0.00008
	(!A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	0.00076	0.00077	0.00077

Passive power(pJ) for C0 falling (conditional):

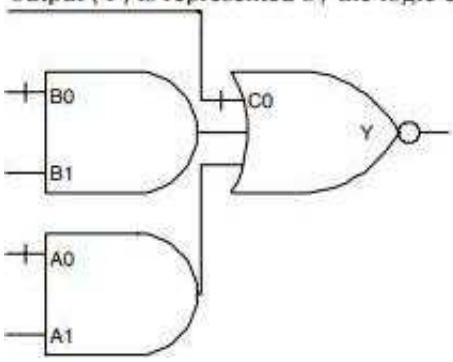
Cell Name	When	Power(pJ)		
		min	avg	max
AOI221X3H7H	(A1 * B0 * B1 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !Y)	0.00008	0.00009	0.00009
	(A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !Y)	-0.00077	-0.00077	-0.00076
	(A0 * A1 * !B1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !Y)	0.00008	0.00008	0.00009
	(A0 * A1 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !Y)	-0.00077	-0.00076	-0.00075
	(A0 * A1 * !B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !Y)	0.00008	0.00009	0.00009
	(A0 * A1 * !B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * B1 * !Y)	-0.00077	-0.00076	-0.00076
	(!A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	0.00008	0.00008	0.00008
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !Y)	-0.00077	-0.00076	-0.00076

AOI221X4H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI221 cell provides the logical inverted OR of two AND groups and a third input. The output (Y) is represented by the logic equation:



Truth Table

INPUT					OUTPUT
A0	A1	B0	B1	C0	Y
0	x	0	x	0	1
0	x	x	x	1	0
0	x	1	0	0	1
x	x	1	1	x	0
1	0	0	x	0	1
1	0	x	x	1	0
1	0	1	0	0	1
1	1	x	x	x	0

Footprint

Cell Name	Area
AOI221X4H7H	5.60000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	**A1**	**B0**	**B1**	**C0**	**Y**
AOI221X4H7H	0.00226	0.00213	0.00204	0.00234	0.00225	0.03431

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
AOI221X4H7H	0.00000	0.05482	0.15802

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI221X4H7H	A0->Y (FR)	0.09418	0.27216	0.75287
	A1->Y (FR)	0.08566	0.26166	0.74182
	B0->Y (FR)	0.08360	0.26134	0.76124
	B1->Y (FR)	0.07627	0.25155	0.75096
	C0->Y (FR)	0.06668	0.23752	0.72760

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI221X4H7H	A0->Y (RF)	0.03772	0.15261	0.49674
	A1->Y (RF)	0.03421	0.14500	0.49135
	B0->Y (RF)	0.03296	0.14277	0.48513
	B1->Y (RF)	0.03048	0.13536	0.48055
	C0->Y (RF)	0.01556	0.09340	0.38005

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI221X4H7H	A0	0.00523	0.00530	0.00534
	A0	-0.00062	-0.00062	-0.00061
	A0	0.00055	0.00056	0.00056
	A0	-0.00012	-0.00006	-0.00001
	A1	0.00473	0.00483	0.00490
	A1	-0.00068	-0.00062	-0.00060
	A1	0.00041	0.00042	0.00042
	A1	-0.00005	0.00005	0.00013
	B0	0.00397	0.00406	0.00411
	B0	-0.00039	-0.00033	-0.00009
	B0	0.00055	0.00056	0.00056
	B0	-0.00012	-0.00006	-0.00002
	B1	0.00367	0.00376	0.00384
	B1	-0.00039	-0.00033	-0.00027
	B1	0.00041	0.00041	0.00042
	B1	-0.00010	-0.00001	0.00007
	C0	0.00301	0.00314	0.00325
	C0	-0.00009	-0.00008	-0.00006
	C0	0.00055	0.00056	0.00056
	C0	-0.00031	-0.00022	-0.00013

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI221X4H7H	A0	-0.00035	-0.00028	-0.00022
	A0	0.00061	0.00062	0.00065
	A0	-0.00042	-0.00042	-0.00041
	A0	0.00466	0.00476	0.00483
	A1	-0.00034	-0.00027	-0.00021
	A1	0.00060	0.00062	0.00068
	A1	-0.00027	-0.00027	-0.00023
	A1	0.00398	0.00411	0.00419
	B0	-0.00032	-0.00024	0.00001
	B0	0.00009	0.00033	0.00039
	B0	-0.00042	-0.00041	-0.00041
	B0	0.00380	0.00388	0.00393
	B1	-0.00050	-0.00034	-0.00023
	B1	0.00027	0.00033	0.00045
	B1	-0.00027	-0.00027	-0.00026
	B1	0.00323	0.00334	0.00342
	C0	-0.00033	-0.00023	-0.00015
	C0	0.00007	0.00009	0.00020
	C0	-0.00027	-0.00027	-0.00025
	C0	0.00320	0.00328	0.00336

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X4H7H	**(A1 * B0 * B1 * C0 * !Y)**	-0.00037	-0.00031	-0.00024
	(A1 * B0 * B1 * C0 * !Y)	-0.00009	-0.00009	-0.00009
	(A1 * B0 * B1 * C0 * !Y)	0.00001	0.00002	0.00002
	(A1 * B0 * B1 * C0 * !Y)	0.00064	0.00064	0.00065
	(A1 * B0 * B1 * !C0 * !Y)	-0.00037	-0.00032	-0.00024
	(A1 * B0 * B1 * !C0 * !Y)	-0.00009	-0.00009	-0.00009
	(A1 * B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00002
	(A1 * B0 * B1 * !C0 * !Y)	0.00064	0.00065	0.00066
	(A1 * !B1 * C0 * !Y)	-0.00035	-0.00030	-0.00023
	(A1 * !B1 * C0 * !Y)	-0.00010	-0.00009	-0.00008
	(A1 * !B1 * C0 * !Y)	0.00001	0.00001	0.00002
	(A1 * !B1 * C0 * !Y)	0.00065	0.00065	0.00066
	(A1 * !B0 * B1 * C0 * !Y)	-0.00035	-0.00030	-0.00023
	(A1 * !B0 * B1 * C0 * !Y)	-0.00010	-0.00009	-0.00008
	(A1 * !B0 * B1 * C0 * !Y)	0.00001	0.00002	0.00002
	(A1 * !B0 * B1 * C0 * !Y)	0.00065	0.00065	0.00066
	(!A1 * B0 * B1 * !Y)	-0.00053	-0.00053	-0.00052
	(!A1 * B0 * B1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1 * B0 * B1 * !Y)	0.00005	0.00005	0.00005
	(!A1 * B0 * B1 * !Y)	0.00055	0.00056	0.00056
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	-0.00053	-0.00052	-0.00052
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	0.00004	0.00005	0.00005
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	0.00055	0.00055	0.00056
	(!A1 * !B1 * !C0 * Y)	-0.00056	-0.00055	-0.00055
	(!A1 * !B1 * !C0 * Y)	-0.00006	-0.00003	-0.00003
	(!A1 * !B1 * !C0 * Y)	0.00004	0.00004	0.00004
	(!A1 * !B1 * !C0 * Y)	0.00052	0.00053	0.00054
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00056	-0.00055	-0.00055
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00005	-0.00003	-0.00003
	(!A1 * !B0 * B1 * !C0 * Y)	0.00004	0.00004	0.00004
	(!A1 * !B0 * B1 * !C0 * Y)	0.00052	0.00053	0.00054

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X4H7H	**(A1 * B0 * B1 * C0 * !Y)**	0.00036	0.00037	0.00037
	(A1 * B0 * B1 * C0 * !Y)	0.00009	0.00009	0.00009
	(A1 * B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * C0 * !Y)	-0.00064	-0.00064	-0.00063
	(A1 * B0 * B1 * !C0 * !Y)	0.00036	0.00037	0.00037
	(A1 * B0 * B1 * !C0 * !Y)	0.00009	0.00009	0.00009
	(A1 * B0 * B1 * !C0 * !Y)	-0.00002	-0.00001	-0.00001
	(A1 * B0 * B1 * !C0 * !Y)	-0.00064	-0.00064	-0.00063
	(A1 * !B1 * C0 * !Y)	0.00035	0.00035	0.00035
	(A1 * !B1 * C0 * !Y)	0.00008	0.00009	0.00010
	(A1 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B1 * C0 * !Y)	-0.00065	-0.00065	-0.00064
	(A1 * !B0 * B1 * C0 * !Y)	0.00035	0.00035	0.00035
	(A1 * !B0 * B1 * C0 * !Y)	0.00008	0.00009	0.00010
	(A1 * !B0 * B1 * C0 * !Y)	-0.00002	-0.00001	-0.00001
	(A1 * !B0 * B1 * C0 * !Y)	-0.00065	-0.00065	-0.00065
	(!A1 * B0 * B1 * !Y)	0.00052	0.00053	0.00053
	(!A1 * B0 * B1 * !Y)	0.00003	0.00003	0.00003
	(!A1 * B0 * B1 * !Y)	-0.00005	-0.00005	-0.00005
	(!A1 * B0 * B1 * !Y)	-0.00056	-0.00053	-0.00050
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	0.00052	0.00053	0.00053
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	0.00003	0.00003	0.00003
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	-0.00005	-0.00005	-0.00004
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	-0.00056	-0.00053	-0.00050
	(!A1 * !B1 * !C0 * Y)	0.00056	0.00056	0.00057
	(!A1 * !B1 * !C0 * Y)	0.00003	0.00003	0.00006
	(!A1 * !B1 * !C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * !B1 * !C0 * Y)	-0.00053	-0.00050	-0.00045
	(!A1 * !B0 * B1 * !C0 * Y)	0.00056	0.00056	0.00058
	(!A1 * !B0 * B1 * !C0 * Y)	0.00003	0.00003	0.00005
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00053	-0.00050	-0.00047

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X4H7H	**(A0 * B0 * B1 * C0 * !Y)**	-0.00032	-0.00028	-0.00022
	(A0 * B0 * B1 * C0 * !Y)	-0.00007	-0.00007	-0.00007
	(A0 * B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00002
	(A0 * B0 * B1 * C0 * !Y)	0.00059	0.00060	0.00060
	(A0 * B0 * B1 * !C0 * !Y)	-0.00032	-0.00028	-0.00023
	(A0 * B0 * B1 * !C0 * !Y)	-0.00007	-0.00007	-0.00007
	(A0 * B0 * B1 * !C0 * !Y)	0.00001	0.00002	0.00002
	(A0 * B0 * B1 * !C0 * !Y)	0.00059	0.00060	0.00060
	(A0 * !B1 * C0 * !Y)	-0.00031	-0.00027	-0.00022
	(A0 * !B1 * C0 * !Y)	-0.00008	-0.00007	-0.00006
	(A0 * !B1 * C0 * !Y)	0.00001	0.00002	0.00002
	(A0 * !B1 * C0 * !Y)	0.00060	0.00060	0.00060
	(A0 * !B0 * B1 * C0 * !Y)	-0.00032	-0.00027	-0.00022
	(A0 * !B0 * B1 * C0 * !Y)	-0.00009	-0.00007	-0.00007
	(A0 * !B0 * B1 * C0 * !Y)	0.00001	0.00002	0.00002
	(A0 * !B0 * B1 * C0 * !Y)	0.00060	0.00060	0.00061
	(!A0 * B0 * B1 * C0 * !Y)	-0.00043	-0.00043	-0.00043
	(!A0 * B0 * B1 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * B0 * B1 * C0 * !Y)	0.00005	0.00005	0.00005
	(!A0 * B0 * B1 * C0 * !Y)	0.00051	0.00051	0.00051
	(!A0 * B0 * B1 * !C0 * !Y)	-0.00043	-0.00043	-0.00043
	(!A0 * B0 * B1 * !C0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * B0 * B1 * !C0 * !Y)	0.00004	0.00005	0.00005
	(!A0 * B0 * B1 * !C0 * !Y)	0.00050	0.00051	0.00051
	(!A0 * !B1 * C0 * !Y)	-0.00044	-0.00043	-0.00043
	(!A0 * !B1 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !B1 * C0 * !Y)	0.00005	0.00005	0.00005
	(!A0 * !B1 * C0 * !Y)	0.00050	0.00051	0.00051
	(!A0 * !B1 * !C0 * Y)	-0.00066	-0.00066	-0.00065
	(!A0 * !B1 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !B1 * !C0 * Y)	0.00008	0.00009	0.00009
	(!A0 * !B1 * !C0 * Y)	0.00009	0.00009	0.00009
	(!A0 * !B0 * B1 * C0 * !Y)	-0.00043	-0.00043	-0.00043
	(!A0 * !B0 * B1 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !B0 * B1 * C0 * !Y)	0.00003	0.00005	0.00005
	(!A0 * !B0 * B1 * C0 * !Y)	0.00051	0.00051	0.00051
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00066	-0.00066	-0.00065
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !B0 * B1 * !C0 * Y)	0.00008	0.00009	0.00009
	(!A0 * !B0 * B1 * !C0 * Y)	0.00009	0.00009	0.00009

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X4H7H	**(A0 * B0 * B1 * C0 * !Y)**	0.00032	0.00032	0.00032
	(A0 * B0 * B1 * C0 * !Y)	0.00007	0.00007	0.00007
	(A0 * B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * C0 * !Y)	-0.00060	-0.00059	-0.00059
	(A0 * B0 * B1 * !C0 * !Y)	0.00032	0.00032	0.00032
	(A0 * B0 * B1 * !C0 * !Y)	0.00007	0.00007	0.00007
	(A0 * B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * !C0 * !Y)	-0.00060	-0.00059	-0.00059
	(A0 * !B1 * C0 * !Y)	0.00031	0.00032	0.00032
	(A0 * !B1 * C0 * !Y)	0.00006	0.00007	0.00008
	(A0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B1 * C0 * !Y)	-0.00060	-0.00060	-0.00060
	(A0 * !B0 * B1 * C0 * !Y)	0.00031	0.00032	0.00032
	(A0 * !B0 * B1 * C0 * !Y)	0.00007	0.00008	0.00009
	(A0 * !B0 * B1 * C0 * !Y)	-0.00002	-0.00001	-0.00001
	(A0 * !B0 * B1 * C0 * !Y)	-0.00060	-0.00060	-0.00060
	(!A0 * B0 * B1 * C0 * !Y)	0.00043	0.00043	0.00043
	(!A0 * B0 * B1 * C0 * !Y)	0.00003	0.00003	0.00003
	(!A0 * B0 * B1 * C0 * !Y)	-0.00005	-0.00005	-0.00004
	(!A0 * B0 * B1 * C0 * !Y)	-0.00051	-0.00049	-0.00045
	(!A0 * B0 * B1 * !C0 * !Y)	0.00043	0.00043	0.00044
	(!A0 * B0 * B1 * !C0 * !Y)	0.00003	0.00003	0.00003
	(!A0 * B0 * B1 * !C0 * !Y)	-0.00005	-0.00005	-0.00004
	(!A0 * B0 * B1 * !C0 * !Y)	-0.00051	-0.00049	-0.00045
	(!A0 * !B1 * C0 * !Y)	0.00043	0.00043	0.00044
	(!A0 * !B1 * C0 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !B1 * C0 * !Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !B1 * C0 * !Y)	-0.00051	-0.00049	-0.00045
	(!A0 * !B1 * !C0 * Y)	0.00065	0.00066	0.00066
	(!A0 * !B1 * !C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !B1 * !C0 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !B1 * !C0 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !B0 * B1 * C0 * !Y)	0.00043	0.00043	0.00043
	(!A0 * !B0 * B1 * C0 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !B0 * B1 * C0 * !Y)	-0.00005	-0.00004	-0.00003
	(!A0 * !B0 * B1 * C0 * !Y)	-0.00051	-0.00049	-0.00045
	(!A0 * !B0 * B1 * !C0 * Y)	0.00065	0.00066	0.00066
	(!A0 * !B0 * B1 * !C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00009	-0.00009	-0.00009

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X4H7H	**(A0 * A1 * B1 * C0 * !Y)**	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * !Y)	-0.00020	-0.00019	-0.00019
	(A0 * A1 * B1 * C0 * !Y)	0.00001	0.00002	0.00002
	(A0 * A1 * B1 * C0 * !Y)	0.00062	0.00063	0.00063
	(A0 * A1 * B1 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * !Y)	-0.00015	-0.00015	-0.00015
	(A0 * A1 * B1 * !C0 * !Y)	0.00001	0.00002	0.00002
	(A0 * A1 * B1 * !C0 * !Y)	0.00062	0.00063	0.00063
	(A0 * A1 * !B1 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B1 * C0 * !Y)	-0.00019	-0.00019	-0.00019
	(A0 * A1 * !B1 * C0 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * !B1 * C0 * !Y)	0.00054	0.00055	0.00055
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00015	-0.00015	-0.00015
	(A0 * A1 * !B1 * !C0 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * !B1 * !C0 * !Y)	0.00055	0.00055	0.00055
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	-0.00048	-0.00048	-0.00047
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	0.00005	0.00005	0.00005
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	0.00049	0.00050	0.00050
	(!A1 * B1 * C0 * !Y)	-0.00038	-0.00034	-0.00028
	(!A1 * B1 * C0 * !Y)	-0.00007	-0.00007	-0.00006
	(!A1 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B1 * C0 * !Y)	0.00059	0.00060	0.00061
	(!A1 * !B1 * !C0 * Y)	-0.00053	-0.00052	-0.00052
	(!A1 * !B1 * !C0 * Y)	-0.00003	-0.00003	-0.00001
	(!A1 * !B1 * !C0 * Y)	0.00004	0.00004	0.00004
	(!A1 * !B1 * !C0 * Y)	0.00045	0.00046	0.00046
	(!A0 * A1 * B1 * C0 * !Y)	-0.00038	-0.00034	-0.00028
	(!A0 * A1 * B1 * C0 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0 * A1 * B1 * C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * B1 * C0 * !Y)	0.00059	0.00060	0.00061
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00053	-0.00052	-0.00052
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00003	-0.00003	-0.00001
	(!A0 * A1 * !B1 * !C0 * Y)	0.00004	0.00004	0.00004
	(!A0 * A1 * !B1 * !C0 * Y)	0.00045	0.00046	0.00046

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X4H7H	**(A0 * A1 * B1 * C0 * !Y)**	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * C0 * !Y)	0.00019	0.00019	0.00020
	(A0 * A1 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B1 * C0 * !Y)	-0.00063	-0.00062	-0.00062
	(A0 * A1 * B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * !C0 * !Y)	0.00015	0.00016	0.00016
	(A0 * A1 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B1 * !C0 * !Y)	-0.00063	-0.00062	-0.00061
	(A0 * A1 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * !Y)	0.00019	0.00019	0.00019
	(A0 * A1 * !B1 * C0 * !Y)	-0.00005	-0.00005	-0.00004
	(A0 * A1 * !B1 * C0 * !Y)	-0.00055	-0.00052	-0.00050
	(A0 * A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * !Y)	0.00015	0.00015	0.00015
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00005	-0.00005	-0.00004
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00055	-0.00053	-0.00050
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	0.00047	0.00048	0.00048
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	0.00003	0.00003	0.00003
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	-0.00005	-0.00005	-0.00004
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	-0.00050	-0.00048	-0.00044
	(!A1 * B1 * C0 * !Y)	0.00037	0.00038	0.00038
	(!A1 * B1 * C0 * !Y)	0.00007	0.00007	0.00007
	(!A1 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B1 * C0 * !Y)	-0.00059	-0.00059	-0.00058
	(!A1 * !B1 * !C0 * Y)	0.00053	0.00053	0.00055
	(!A1 * !B1 * !C0 * Y)	0.00001	0.00003	0.00003
	(!A1 * !B1 * !C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * !B1 * !C0 * Y)	-0.00045	-0.00043	-0.00040
	(!A0 * A1 * B1 * C0 * !Y)	0.00037	0.00038	0.00038
	(!A0 * A1 * B1 * C0 * !Y)	0.00007	0.00007	0.00007
	(!A0 * A1 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B1 * C0 * !Y)	-0.00059	-0.00059	-0.00058
	(!A0 * A1 * !B1 * !C0 * Y)	0.00053	0.00053	0.00055
	(!A0 * A1 * !B1 * !C0 * Y)	0.00001	0.00003	0.00003
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00045	-0.00043	-0.00040

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X4H7H	**(A0 * A1 * B0 * C0 * !Y)**	-0.00000	-0.00000	0.00000
	(A0 * A1 * B0 * C0 * !Y)	-0.00022	-0.00022	-0.00022
	(A0 * A1 * B0 * C0 * !Y)	0.00001	0.00002	0.00002
	(A0 * A1 * B0 * C0 * !Y)	0.00064	0.00064	0.00064
	(A0 * A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B0 * !C0 * !Y)	-0.00018	-0.00018	-0.00017
	(A0 * A1 * B0 * !C0 * !Y)	0.00001	0.00002	0.00002
	(A0 * A1 * B0 * !C0 * !Y)	0.00064	0.00064	0.00064
	(A0 * A1 * !B0 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * C0 * !Y)	-0.00021	-0.00021	-0.00021
	(A0 * A1 * !B0 * C0 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * !B0 * C0 * !Y)	0.00056	0.00056	0.00056
	(A0 * A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * !Y)	-0.00017	-0.00017	-0.00017
	(A0 * A1 * !B0 * !C0 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * !B0 * !C0 * !Y)	0.00056	0.00056	0.00057
	(!A1 * B0 * C0 * !Y)	-0.00045	-0.00041	-0.00035
	(!A1 * B0 * C0 * !Y)	-0.00007	-0.00007	-0.00006
	(!A1 * B0 * C0 * !Y)	0.00001	0.00002	0.00002
	(!A1 * B0 * C0 * !Y)	0.00060	0.00061	0.00062
	(!A1 * !B0 * C0 * !Y)	-0.00056	-0.00055	-0.00055
	(!A1 * !B0 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * C0 * !Y)	0.00005	0.00005	0.00005
	(!A1 * !B0 * C0 * !Y)	0.00050	0.00051	0.00051
	(!A1 * !B0 * !C0 * Y)	-0.00080	-0.00080	-0.00079
	(!A1 * !B0 * !C0 * Y)	-0.00003	-0.00003	-0.00002
	(!A1 * !B0 * !C0 * Y)	0.00009	0.00009	0.00009
	(!A1 * !B0 * !C0 * Y)	0.00006	0.00006	0.00007
	(!A0 * A1 * B0 * C0 * !Y)	-0.00045	-0.00041	-0.00035
	(!A0 * A1 * B0 * C0 * !Y)	-0.00007	-0.00007	-0.00006
	(!A0 * A1 * B0 * C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * B0 * C0 * !Y)	0.00060	0.00061	0.00062
	(!A0 * A1 * !B0 * C0 * !Y)	-0.00056	-0.00055	-0.00055
	(!A0 * A1 * !B0 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * !B0 * C0 * !Y)	0.00003	0.00005	0.00005
	(!A0 * A1 * !B0 * C0 * !Y)	0.00050	0.00050	0.00051
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00081	-0.00080	-0.00079
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * A1 * !B0 * !C0 * Y)	0.00009	0.00009	0.00009
	(!A0 * A1 * !B0 * !C0 * Y)	0.00006	0.00006	0.00007

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X4H7H	**(A0 * A1 * B0 * C0 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * !Y)	0.00022	0.00022	0.00022
	(A0 * A1 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B0 * C0 * !Y)	-0.00064	-0.00064	-0.00063
	(A0 * A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * !Y)	0.00018	0.00018	0.00018
	(A0 * A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B0 * !C0 * !Y)	-0.00064	-0.00064	-0.00063
	(A0 * A1 * !B0 * C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * C0 * !Y)	0.00021	0.00021	0.00021
	(A0 * A1 * !B0 * C0 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * !B0 * C0 * !Y)	-0.00056	-0.00054	-0.00050
	(A0 * A1 * !B0 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * !Y)	0.00017	0.00017	0.00017
	(A0 * A1 * !B0 * !C0 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * !B0 * !C0 * !Y)	-0.00056	-0.00054	-0.00051
	(!A1 * B0 * C0 * !Y)	0.00045	0.00045	0.00045
	(!A1 * B0 * C0 * !Y)	0.00006	0.00007	0.00007
	(!A1 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * C0 * !Y)	-0.00060	-0.00060	-0.00059
	(!A1 * !B0 * C0 * !Y)	0.00055	0.00055	0.00056
	(!A1 * !B0 * C0 * !Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * C0 * !Y)	-0.00005	-0.00005	-0.00005
	(!A1 * !B0 * C0 * !Y)	-0.00051	-0.00048	-0.00045
	(!A1 * !B0 * !C0 * Y)	0.00080	0.00080	0.00080
	(!A1 * !B0 * !C0 * Y)	0.00003	0.00003	0.00004
	(!A1 * !B0 * !C0 * Y)	-0.00009	-0.00009	-0.00009
	(!A1 * !B0 * !C0 * Y)	-0.00007	-0.00006	-0.00006
	(!A0 * A1 * B0 * C0 * !Y)	0.00045	0.00045	0.00045
	(!A0 * A1 * B0 * C0 * !Y)	0.00007	0.00007	0.00007
	(!A0 * A1 * B0 * C0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * A1 * B0 * C0 * !Y)	-0.00060	-0.00060	-0.00059
	(!A0 * A1 * !B0 * C0 * !Y)	0.00055	0.00055	0.00056
	(!A0 * A1 * !B0 * C0 * !Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * !B0 * C0 * !Y)	-0.00005	-0.00005	-0.00003
	(!A0 * A1 * !B0 * C0 * !Y)	-0.00051	-0.00048	-0.00044
	(!A0 * A1 * !B0 * !C0 * Y)	0.00080	0.00080	0.00081
	(!A0 * A1 * !B0 * !C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00007	-0.00006	-0.00006

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI221X4H7H	(A1 * B0 * B1 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * !Y)	-0.00010	-0.00010	-0.00010
	(A1 * B0 * B1 * !Y)	0.00001	0.00002	0.00002
	(A1 * B0 * B1 * !Y)	0.00085	0.00085	0.00086
	(A0 * A1 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !Y)	-0.00010	-0.00010	-0.00010
	(A0 * A1 * !B1 * !Y)	0.00001	0.00002	0.00002
	(A0 * A1 * !B1 * !Y)	0.00084	0.00085	0.00085
	(A0 * A1 * !B0 * B1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !Y)	-0.00010	-0.00010	-0.00010
	(A0 * A1 * !B0 * B1 * !Y)	0.00001	0.00002	0.00002
	(A0 * A1 * !B0 * B1 * !Y)	0.00084	0.00085	0.00086
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00002	-0.00001
	(!A1 * B0 * B1 * !Y)	-0.00010	-0.00010	-0.00010
	(!A1 * B0 * B1 * !Y)	0.00001	0.00002	0.00002
	(!A1 * B0 * B1 * !Y)	0.00084	0.00085	0.00085

Passive power(pJ) for C0 falling (conditional):

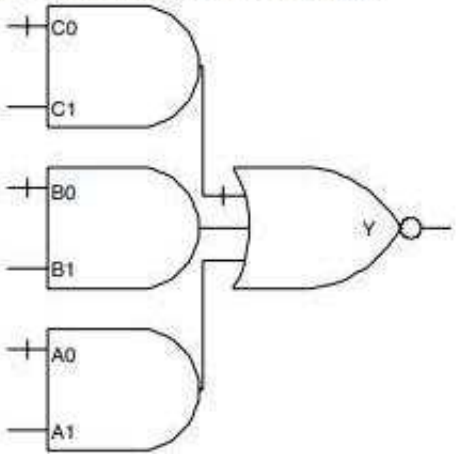
Cell Name	When	Power(pJ)		
		min	avg	max
AOI221X4H7H	(A1 * B0 * B1 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !Y)	0.00011	0.00011	0.00011
	(A1 * B0 * B1 * !Y)	-0.00002	-0.00001	-0.00001
	(A1 * B0 * B1 * !Y)	-0.00086	-0.00085	-0.00084
	(A0 * A1 * !B1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B1 * !Y)	0.00011	0.00011	0.00011
	(A0 * A1 * !B1 * !Y)	-0.00002	-0.00001	-0.00001
	(A0 * A1 * !B1 * !Y)	-0.00085	-0.00084	-0.00083
	(A0 * A1 * !B0 * B1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !Y)	0.00011	0.00011	0.00011
	(A0 * A1 * !B0 * B1 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * !B0 * B1 * !Y)	-0.00085	-0.00084	-0.00084
	(!A1 * B0 * B1 * !Y)	0.00001	0.00002	0.00002
	(!A1 * B0 * B1 * !Y)	0.00010	0.00010	0.00010
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !Y)	-0.00085	-0.00085	-0.00084

AOI222X0P5H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI222 cell provides the logical inverted OR of three AND groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT						OUTPUT
A0	A1	B0	B1	C0	C1	Y
0	x	0	x	0	x	1
0	x	0	x	1	0	1
0	x	x	x	1	1	0
0	x	1	0	0	x	1
0	x	1	0	1	0	1
x	x	1	1	x	x	0
1	0	0	x	0	x	1
1	0	0	x	1	0	1
1	0	x	x	1	1	0
1	0	1	0	0	x	1
1	0	1	0	1	0	1
1	1	x	x	x	x	0

Footprint

Cell Name	Area
AOI222X0P5H7H	3.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	A1	B0	B1	C0	C1	Y
AOI222X0P5H7H	0.00076	0.00079	0.00084	0.00085	0.00084	0.00089	0.00919

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI222X0P5H7H	0.00000	0.01336	0.01896

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI222X0P5H7H	A0->Y (FR)	0.14973	0.31790	0.76321
	A1->Y (FR)	0.14006	0.30691	0.75186
	B0->Y (FR)	0.14123	0.30937	0.77125
	B1->Y (FR)	0.13196	0.29866	0.75983
	C0->Y (FR)	0.11121	0.27231	0.72371
	C1->Y (FR)	0.10528	0.26449	0.71444

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI222X0P5H7H	A0->Y (RF)	0.05812	0.16568	0.47703
	A1->Y (RF)	0.05550	0.16212	0.48454
	B0->Y (RF)	0.05241	0.15676	0.46527
	B1->Y (RF)	0.04980	0.15262	0.47273
	C0->Y (RF)	0.04096	0.14126	0.44960
	C1->Y (RF)	0.03990	0.13794	0.45743

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI222X0P5H7H	A0	0.00209	0.00210	0.00212
	A0	-0.00021	-0.00020	-0.00020
	A0	0.00018	0.00018	0.00019
	A0	0.00002	0.00003	0.00005
	A1	0.00194	0.00198	0.00200
	A1	-0.00021	-0.00020	-0.00020
	A1	0.00015	0.00015	0.00015
	A1	0.00004	0.00007	0.00010
	B0	0.00170	0.00173	0.00175
	B0	-0.00016	-0.00014	-0.00007
	B0	0.00018	0.00018	0.00019
	B0	-0.00003	-0.00001	0.00001
	B1	0.00159	0.00163	0.00166
	B1	-0.00013	-0.00013	-0.00011
	B1	0.00015	0.00015	0.00015
	B1	-0.00000	0.00003	0.00006
	C0	0.00129	0.00132	0.00135
	C0	-0.00005	-0.00005	-0.00004
	C0	0.00018	0.00018	0.00019
	C0	-0.00009	-0.00006	-0.00004
	C1	0.00118	0.00123	0.00127
	C1	-0.00005	-0.00005	-0.00004
	C1	0.00015	0.00015	0.00015
	C1	-0.00009	-0.00006	-0.00002

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI222X0P5H7H	A0	-0.00009	-0.00007	-0.00006
	A0	0.00022	0.00022	0.00022
	A0	-0.00011	-0.00011	-0.00011
	A0	0.00187	0.00190	0.00192
	A1	-0.00010	-0.00008	-0.00006
	A1	0.00022	0.00022	0.00022
	A1	-0.00007	-0.00007	-0.00007
	A1	0.00166	0.00170	0.00173
	B0	-0.00008	-0.00005	0.00002
	B0	0.00007	0.00014	0.00016
	B0	-0.00011	-0.00011	-0.00011
	B0	0.00165	0.00168	0.00170
	B1	-0.00011	-0.00008	-0.00005
	B1	0.00013	0.00013	0.00015
	B1	-0.00007	-0.00007	-0.00007
	B1	0.00145	0.00149	0.00151
	C0	-0.00009	-0.00006	-0.00004
	C0	0.00005	0.00005	0.00006
	C0	-0.00011	-0.00011	-0.00011
	C0	0.00136	0.00139	0.00141
	C1	-0.00011	-0.00007	-0.00005
	C1	0.00005	0.00005	0.00006
	C1	-0.00007	-0.00007	-0.00007
	C1	0.00122	0.00125	0.00128

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X0P5H7H	**(A1 * B0 * B1 * C0 * C1 * !Y)**	-0.00010	-0.00009	-0.00006
	(A1 * B0 * B1 * C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C0 * C1 * !Y)	0.00026	0.00026	0.00027
	(A1 * B0 * B1 * !C1 * !Y)	-0.00010	-0.00009	-0.00006
	(A1 * B0 * B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00001
	(A1 * B0 * B1 * !C1 * !Y)	0.00026	0.00026	0.00026
	(A1 * B0 * B1 * !C0 * C1 * !Y)	-0.00010	-0.00009	-0.00006
	(A1 * B0 * B1 * !C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00001
	(A1 * B0 * B1 * !C0 * C1 * !Y)	0.00026	0.00026	0.00026
	(A1 * !B1 * C0 * C1 * !Y)	-0.00010	-0.00008	-0.00006
	(A1 * !B1 * C0 * C1 * !Y)	-0.00003	-0.00003	-0.00002
	(A1 * !B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00001
	(A1 * !B1 * C0 * C1 * !Y)	0.00026	0.00026	0.00026
	(A1 * !B0 * B1 * C0 * C1 * !Y)	-0.00010	-0.00008	-0.00006
	(A1 * !B0 * B1 * C0 * C1 * !Y)	-0.00003	-0.00002	-0.00002
	(A1 * !B0 * B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00001
	(A1 * !B0 * B1 * C0 * C1 * !Y)	0.00026	0.00026	0.00027
	(!A1 * B0 * B1 * !Y)	-0.00015	-0.00015	-0.00015
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	0.00022	0.00022	0.00022
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	-0.00015	-0.00015	-0.00015
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	0.00022	0.00022	0.00022
	(!A1 * !B1 * !C1 * Y)	-0.00015	-0.00015	-0.00014
	(!A1 * !B1 * !C1 * Y)	-0.00002	-0.00001	-0.00001
	(!A1 * !B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C1 * Y)	0.00022	0.00022	0.00023
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00015	-0.00015	-0.00014
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B1 * !C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C0 * C1 * Y)	0.00022	0.00022	0.00023
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00015	-0.00015	-0.00014
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00002	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C1 * Y)	0.00022	0.00022	0.00023
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	-0.00015	-0.00015	-0.00014
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	-0.00002	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	0.00022	0.00022	0.00023

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X0P5H7H	**(A1 * B0 * B1 * C0 * C1 * !Y)**	0.00010	0.00010	0.00010
	(A1 * B0 * B1 * C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * C0 * C1 * !Y)	-0.00026	-0.00026	-0.00026
	(A1 * B0 * B1 * !C1 * !Y)	0.00010	0.00010	0.00010
	(A1 * B0 * B1 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * !C1 * !Y)	-0.00026	-0.00026	-0.00026
	(A1 * B0 * B1 * !C0 * C1 * !Y)	0.00010	0.00010	0.00010
	(A1 * B0 * B1 * !C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * !C0 * C1 * !Y)	-0.00001	-0.00000	-0.00000
	(A1 * B0 * B1 * !C0 * C1 * !Y)	-0.00026	-0.00026	-0.00026
	(A1 * !B1 * C0 * C1 * !Y)	0.00010	0.00010	0.00010
	(A1 * !B1 * C0 * C1 * !Y)	0.00002	0.00003	0.00003
	(A1 * !B1 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B1 * C0 * C1 * !Y)	-0.00026	-0.00026	-0.00026
	(A1 * !B0 * B1 * C0 * C1 * !Y)	0.00010	0.00010	0.00010
	(A1 * !B0 * B1 * C0 * C1 * !Y)	0.00002	0.00002	0.00003
	(A1 * !B0 * B1 * C0 * C1 * !Y)	-0.00001	-0.00000	-0.00000
	(A1 * !B0 * B1 * C0 * C1 * !Y)	-0.00026	-0.00026	-0.00026
	(!A1 * B0 * B1 * !Y)	0.00015	0.00015	0.00015
	(!A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !Y)	-0.00022	-0.00022	-0.00021
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	0.00015	0.00015	0.00015
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	-0.00022	-0.00022	-0.00021
	(!A1 * !B1 * !C1 * Y)	0.00015	0.00015	0.00016
	(!A1 * !B1 * !C1 * Y)	0.00001	0.00001	0.00002
	(!A1 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C1 * Y)	-0.00023	-0.00022	-0.00020
	(!A1 * !B1 * !C0 * C1 * Y)	0.00015	0.00015	0.00016
	(!A1 * !B1 * !C0 * C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00023	-0.00022	-0.00021
	(!A1 * !B0 * B1 * !C1 * Y)	0.00015	0.00015	0.00016
	(!A1 * !B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00023	-0.00022	-0.00020
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	0.00015	0.00015	0.00016
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	-0.00023	-0.00022	-0.00020

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X0P5H7H	**(A0 * B0 * B1 * C0 * C1 * !Y)**	-0.00010	-0.00008	-0.00006
	(A0 * B0 * B1 * C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * C0 * C1 * !Y)	0.00024	0.00024	0.00024
	(A0 * B0 * B1 * !C1 * !Y)	-0.00010	-0.00008	-0.00006
	(A0 * B0 * B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !C1 * !Y)	0.00024	0.00024	0.00024
	(A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00010	-0.00008	-0.00006
	(A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !C0 * C1 * !Y)	0.00023	0.00024	0.00024
	(A0 * !B1 * C0 * C1 * !Y)	-0.00009	-0.00008	-0.00006
	(A0 * !B1 * C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B1 * C0 * C1 * !Y)	0.00024	0.00024	0.00024
	(A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00009	-0.00008	-0.00006
	(A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00001
	(A0 * !B0 * B1 * C0 * C1 * !Y)	0.00024	0.00024	0.00024
	(!A0 * B0 * B1 * C0 * C1 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * B0 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * C0 * C1 * !Y)	0.00020	0.00020	0.00020
	(!A0 * B0 * B1 * !C1 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * !C1 * !Y)	0.00020	0.00020	0.00020
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !B1 * C0 * C1 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * C0 * C1 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !B1 * !C1 * Y)	-0.00021	-0.00020	-0.00020
	(!A0 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * !C1 * Y)	0.00002	0.00003	0.00003
	(!A0 * !B1 * !C1 * Y)	0.00007	0.00007	0.00007
	(!A0 * !B1 * !C0 * C1 * Y)	-0.00021	-0.00020	-0.00020
	(!A0 * !B1 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * !C0 * C1 * Y)	0.00002	0.00003	0.00003
	(!A0 * !B1 * !C0 * C1 * Y)	0.00007	0.00007	0.00007
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	0.00019	0.00020	0.00020
	(!A0 * !B0 * B1 * !C1 * Y)	-0.00021	-0.00020	-0.00020
	(!A0 * !B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * B1 * !C1 * Y)	0.00002	0.00003	0.00003
	(!A0 * !B0 * B1 * !C1 * Y)	0.00007	0.00007	0.00007
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	-0.00021	-0.00020	-0.00020
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	0.00002	0.00003	0.00003
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	0.00007	0.00007	0.00007

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X0P5H7H	**(A0 * B0 * B1 * C0 * C1 * !Y)**	0.00010	0.00010	0.00010
	(A0 * B0 * B1 * C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * B1 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * C0 * C1 * !Y)	-0.00024	-0.00023	-0.00023
	(A0 * B0 * B1 * !C1 * !Y)	0.00010	0.00010	0.00010
	(A0 * B0 * B1 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * !C1 * !Y)	-0.00024	-0.00024	-0.00024
	(A0 * B0 * B1 * !C0 * C1 * !Y)	0.00010	0.00010	0.00010
	(A0 * B0 * B1 * !C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00024	-0.00023	-0.00023
	(A0 * !B1 * C0 * C1 * !Y)	0.00009	0.00009	0.00009
	(A0 * !B1 * C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * !B1 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B1 * C0 * C1 * !Y)	-0.00024	-0.00023	-0.00023
	(A0 * !B0 * B1 * C0 * C1 * !Y)	0.00009	0.00009	0.00009
	(A0 * !B0 * B1 * C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00024	-0.00023	-0.00023
	(!A0 * B0 * B1 * C0 * C1 * !Y)	0.00014	0.00014	0.00014
	(!A0 * B0 * B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * C0 * C1 * !Y)	-0.00020	-0.00019	-0.00018
	(!A0 * B0 * B1 * !C1 * !Y)	0.00014	0.00014	0.00014
	(!A0 * B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * !C1 * !Y)	-0.00020	-0.00019	-0.00018
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	0.00014	0.00014	0.00014
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00020	-0.00019	-0.00018
	(!A0 * !B1 * C0 * C1 * !Y)	0.00014	0.00014	0.00014
	(!A0 * !B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * C0 * C1 * !Y)	-0.00020	-0.00019	-0.00018
	(!A0 * !B1 * !C1 * Y)	0.00020	0.00021	0.00021
	(!A0 * !B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B1 * !C1 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !B1 * !C0 * C1 * Y)	0.00020	0.00021	0.00021
	(!A0 * !B1 * !C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * !C0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B1 * !C0 * C1 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	0.00014	0.00014	0.00014
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00020	-0.00019	-0.00018
	(!A0 * !B0 * B1 * !C1 * Y)	0.00020	0.00021	0.00021
	(!A0 * !B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * B1 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * B1 * !C1 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	0.00020	0.00021	0.00021
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X0P5H7H	**(A0 * A1 * B1 * C0 * C1 * !Y)**	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * C1 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * B1 * C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B1 * C0 * C1 * !Y)	0.00027	0.00027	0.00027
	(A0 * A1 * B1 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * !C1 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C1 * !Y)	0.00027	0.00027	0.00027
	(A0 * A1 * B1 * !C0 * C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * !Y)	0.00027	0.00027	0.00027
	(A0 * A1 * !B1 * C0 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B1 * C0 * C1 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * !B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * C0 * C1 * !Y)	0.00025	0.00025	0.00025
	(A0 * A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !C1 * !Y)	0.00024	0.00025	0.00025
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00001	0.00001	0.00002
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00024	0.00025	0.00025
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	-0.00015	-0.00015	-0.00015
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	0.00022	0.00022	0.00022
	(!A1 * B1 * C0 * C1 * !Y)	-0.00012	-0.00010	-0.00008
	(!A1 * B1 * C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B1 * C0 * C1 * !Y)	0.00025	0.00026	0.00026
	(!A1 * !B1 * !C1 * Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B1 * !C1 * Y)	-0.00001	-0.00001	0.00000
	(!A1 * !B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C1 * Y)	0.00018	0.00018	0.00019
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00001	-0.00001	0.00000
	(!A1 * !B1 * !C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C0 * C1 * Y)	0.00018	0.00018	0.00019
	(!A0 * A1 * B1 * C0 * C1 * !Y)	-0.00012	-0.00010	-0.00008
	(!A0 * A1 * B1 * C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * C1 * !Y)	0.00025	0.00026	0.00026
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00019	-0.00019	-0.00019
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !C1 * Y)	0.00018	0.00018	0.00019
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00019	-0.00019	-0.00019
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00001	-0.00001	0.00000
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	0.00018	0.00018	0.00019

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X0P5H7H	**(A0 * A1 * B1 * C0 * C1 * !Y)**	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * C0 * C1 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * B1 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * C0 * C1 * !Y)	-0.00027	-0.00027	-0.00027
	(A0 * A1 * B1 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C1 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * !C1 * !Y)	-0.00027	-0.00027	-0.00025
	(A0 * A1 * B1 * !C0 * C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * !C0 * C1 * !Y)	-0.00027	-0.00027	-0.00027
	(A0 * A1 * !B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * C1 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * !B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * C0 * C1 * !Y)	-0.00025	-0.00024	-0.00023
	(A0 * A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00025	-0.00024	-0.00023
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00025	-0.00024	-0.00023
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	0.00015	0.00015	0.00015
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	-0.00022	-0.00021	-0.00020
	(!A1 * B1 * C0 * C1 * !Y)	0.00012	0.00012	0.00012
	(!A1 * B1 * C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A1 * B1 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B1 * C0 * C1 * !Y)	-0.00025	-0.00025	-0.00025
	(!A1 * !B1 * !C1 * Y)	0.00019	0.00019	0.00020
	(!A1 * !B1 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C1 * Y)	-0.00018	-0.00017	-0.00016
	(!A1 * !B1 * !C0 * C1 * Y)	0.00019	0.00019	0.00020
	(!A1 * !B1 * !C0 * C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00018	-0.00017	-0.00016
	(!A0 * A1 * B1 * C0 * C1 * !Y)	0.00012	0.00012	0.00012
	(!A0 * A1 * B1 * C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * B1 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B1 * C0 * C1 * !Y)	-0.00025	-0.00025	-0.00025
	(!A0 * A1 * !B1 * !C1 * Y)	0.00019	0.00019	0.00020
	(!A0 * A1 * !B1 * !C1 * Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00018	-0.00017	-0.00016
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	0.00019	0.00019	0.00020
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00018	-0.00017	-0.00016

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X0P5H7H	**(A0 * A1 * B0 * C0 * C1 * !Y)**	-0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * C1 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * A1 * B0 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * C1 * !Y)	0.00025	0.00025	0.00025
	(A0 * A1 * B0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C1 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * B0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C1 * !Y)	0.00025	0.00025	0.00025
	(A0 * A1 * B0 * !C0 * C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * C1 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * B0 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * C1 * !Y)	0.00025	0.00025	0.00025
	(A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * A1 * !B0 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * C0 * C1 * !Y)	0.00022	0.00022	0.00022
	(A0 * A1 * !B0 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C1 * !Y)	-0.00004	-0.00005	-0.00004
	(A0 * A1 * !B0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * !C1 * !Y)	0.00022	0.00022	0.00022
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00005	-0.00005	-0.00004
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00001	0.00001	0.00002
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00022	0.00022	0.00023
	(!A1 * B0 * C0 * C1 * !Y)	-0.00014	-0.00013	-0.00011
	(!A1 * B0 * C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * C0 * C1 * !Y)	0.00023	0.00023	0.00023
	(!A1 * !B0 * C0 * C1 * !Y)	-0.00018	-0.00018	-0.00018
	(!A1 * !B0 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * C1 * !Y)	0.00019	0.00019	0.00019
	(!A1 * !B0 * !C1 * Y)	-0.00027	-0.00027	-0.00027
	(!A1 * !B0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C1 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * !C1 * Y)	0.00004	0.00004	0.00004
	(!A1 * !B0 * !C0 * C1 * Y)	-0.00027	-0.00027	-0.00027
	(!A1 * !B0 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * C1 * Y)	0.00002	0.00003	0.00003
	(!A1 * !B0 * !C0 * C1 * Y)	0.00004	0.00004	0.00004
	(!A0 * A1 * B0 * C0 * C1 * !Y)	-0.00014	-0.00013	-0.00011
	(!A0 * A1 * B0 * C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * B0 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * C0 * C1 * !Y)	0.00023	0.00023	0.00023
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00018	-0.00018	-0.00018
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	0.00019	0.00019	0.00019
	(!A0 * A1 * !B0 * !C1 * Y)	-0.00027	-0.00027	-0.00027
	(!A0 * A1 * !B0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * !C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * !B0 * !C1 * Y)	0.00004	0.00004	0.00004
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00027	-0.00027	-0.00027
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	0.00004	0.00004	0.00004

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X0P5H7H	**(A0 * A1 * B0 * C0 * C1 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * C1 * !Y)	0.00006	0.00006	0.00006
	(A0 * A1 * B0 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * C0 * C1 * !Y)	-0.00025	-0.00025	-0.00025
	(A0 * A1 * B0 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C1 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * B0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * !C1 * !Y)	-0.00025	-0.00025	-0.00025
	(A0 * A1 * B0 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * C1 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * B0 * !C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * !C0 * C1 * !Y)	-0.00025	-0.00025	-0.00025
	(A0 * A1 * !B0 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * C0 * C1 * !Y)	0.00006	0.00006	0.00006
	(A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00022	-0.00021	-0.00020
	(A0 * A1 * !B0 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C1 * !Y)	0.00004	0.00005	0.00004
	(A0 * A1 * !B0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * !C1 * !Y)	-0.00022	-0.00022	-0.00020
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00004	0.00005	0.00005
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00002	-0.00001	-0.00001
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00022	-0.00022	-0.00021
	(!A1 * B0 * C0 * C1 * !Y)	0.00014	0.00014	0.00014
	(!A1 * B0 * C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * C0 * C1 * !Y)	-0.00023	-0.00023	-0.00023
	(!A1 * !B0 * C0 * C1 * !Y)	0.00018	0.00018	0.00018
	(!A1 * !B0 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * C1 * !Y)	-0.00019	-0.00018	-0.00017
	(!A1 * !B0 * !C1 * Y)	0.00027	0.00027	0.00027
	(!A1 * !B0 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C1 * Y)	-0.00003	-0.00002	-0.00002
	(!A1 * !B0 * !C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * !B0 * !C0 * C1 * Y)	0.00027	0.00027	0.00027
	(!A1 * !B0 * !C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !C0 * C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A1 * B0 * C0 * C1 * !Y)	0.00014	0.00014	0.00014
	(!A0 * A1 * B0 * C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * B0 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * C0 * C1 * !Y)	-0.00023	-0.00023	-0.00022
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	0.00018	0.00018	0.00018
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00019	-0.00018	-0.00017
	(!A0 * A1 * !B0 * !C1 * Y)	0.00027	0.00027	0.00027
	(!A0 * A1 * !B0 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * !C1 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * A1 * !B0 * !C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	0.00027	0.00027	0.00027
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00004	-0.00004	-0.00004

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X0P5H7H	**(A1 * B0 * B1 * C1 * !Y)**	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C1 * !Y)	0.00030	0.00030	0.00030
	(A1 * B0 * B1 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !C1 * !Y)	0.00027	0.00028	0.00028
	(A0 * A1 * !B1 * C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C1 * !Y)	0.00030	0.00030	0.00030
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !C1 * !Y)	0.00027	0.00028	0.00028
	(A0 * A1 * !B0 * B1 * C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B0 * B1 * C1 * !Y)	0.00000	0.00000	0.00001
	(A0 * A1 * !B0 * B1 * C1 * !Y)	0.00030	0.00030	0.00030
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00027	0.00028	0.00028
	(!A1 * B0 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1 * B0 * B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * C1 * !Y)	0.00030	0.00030	0.00030
	(!A1 * B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1 * B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C1 * !Y)	0.00027	0.00027	0.00028
	(!A1 * !B1 * !C1 * Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C1 * Y)	0.00017	0.00018	0.00018
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C1 * Y)	0.00017	0.00018	0.00018
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00019	-0.00019	-0.00019
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !C1 * Y)	0.00017	0.00018	0.00018
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00019	-0.00019	-0.00019
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	0.00017	0.00018	0.00018

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X0P5H7H	**(A1 * B0 * B1 * C1 * !Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C1 * !Y)	0.00003	0.00003	0.00003
	(A1 * B0 * B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * C1 * !Y)	-0.00030	-0.00030	-0.00030
	(A1 * B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C1 * !Y)	0.00003	0.00003	0.00003
	(A1 * B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !C1 * !Y)	-0.00028	-0.00027	-0.00026
	(A0 * A1 * !B1 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B1 * C1 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B1 * C1 * !Y)	-0.00030	-0.00030	-0.00029
	(A0 * A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00028	-0.00027	-0.00026
	(A0 * A1 * !B0 * B1 * C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C1 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B0 * B1 * C1 * !Y)	-0.00001	-0.00000	-0.00000
	(A0 * A1 * !B0 * B1 * C1 * !Y)	-0.00030	-0.00030	-0.00029
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00028	-0.00027	-0.00026
	(!A1 * B0 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * C1 * !Y)	0.00003	0.00003	0.00003
	(!A1 * B0 * B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * C1 * !Y)	-0.00030	-0.00030	-0.00029
	(!A1 * B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C1 * !Y)	0.00003	0.00003	0.00003
	(!A1 * B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !C1 * !Y)	-0.00027	-0.00027	-0.00026
	(!A1 * !B1 * !C1 * Y)	0.00019	0.00019	0.00020
	(!A1 * !B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C1 * Y)	-0.00018	-0.00017	-0.00016
	(!A1 * !B0 * B1 * !C1 * Y)	0.00019	0.00019	0.00020
	(!A1 * !B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00018	-0.00017	-0.00016
	(!A0 * A1 * !B1 * !C1 * Y)	0.00019	0.00019	0.00020
	(!A0 * A1 * !B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00018	-0.00017	-0.00016
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	0.00019	0.00019	0.00020
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00018	-0.00017	-0.00015

Passive power(pJ) for C1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X0P5H7H	**(A1 * B0 * B1 * C0 * !Y)**	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C0 * !Y)	0.00034	0.00034	0.00034
	(A1 * B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * !C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !C0 * !Y)	0.00031	0.00031	0.00031
	(A0 * A1 * !B1 * C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * !Y)	0.00033	0.00034	0.00034
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !C0 * !Y)	0.00031	0.00031	0.00031
	(A0 * A1 * !B0 * B1 * C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00001
	(A0 * A1 * !B0 * B1 * C0 * !Y)	0.00034	0.00034	0.00034
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00001	0.00002	0.00002
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00031	0.00031	0.00031
	(!A1 * B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1 * B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * C0 * !Y)	0.00033	0.00034	0.00034
	(!A1 * B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !C0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1 * B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C0 * !Y)	0.00031	0.00031	0.00031
	(!A1 * !B1 * !C0 * Y)	-0.00028	-0.00028	-0.00028
	(!A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C0 * Y)	0.00002	0.00003	0.00003
	(!A1 * !B1 * !C0 * Y)	0.00005	0.00005	0.00005
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00028	-0.00028	-0.00028
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C0 * Y)	0.00002	0.00003	0.00003
	(!A1 * !B0 * B1 * !C0 * Y)	0.00005	0.00005	0.00005
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00028	-0.00028	-0.00028
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C0 * Y)	0.00002	0.00003	0.00003
	(!A0 * A1 * !B1 * !C0 * Y)	0.00005	0.00005	0.00005
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00028	-0.00028	-0.00028
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	0.00002	0.00003	0.00003
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	0.00005	0.00005	0.00005

Passive power(pJ) for C1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

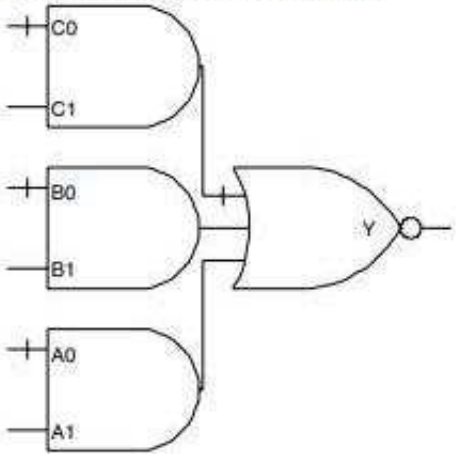
AOI222X0P5H7H	**(A1 * B0 * B1 * C0 * !Y)**	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C0 * !Y)	0.00003	0.00003	0.00003
	(A1 * B0 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * C0 * !Y)	-0.00034	-0.00034	-0.00033
	(A1 * B0 * B1 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C0 * !Y)	0.00003	0.00003	0.00003
	(A1 * B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !C0 * !Y)	-0.00031	-0.00030	-0.00029
	(A0 * A1 * !B1 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B1 * C0 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B1 * C0 * !Y)	-0.00034	-0.00034	-0.00033
	(A0 * A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00031	-0.00030	-0.00029
	(A0 * A1 * !B0 * B1 * C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C0 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B0 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B0 * B1 * C0 * !Y)	-0.00034	-0.00034	-0.00033
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00002	-0.00001	-0.00001
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00031	-0.00030	-0.00029
	(!A1 * B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * C0 * !Y)	0.00003	0.00003	0.00003
	(!A1 * B0 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * C0 * !Y)	-0.00034	-0.00033	-0.00033
	(!A1 * B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C0 * !Y)	0.00003	0.00003	0.00003
	(!A1 * B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !C0 * !Y)	-0.00031	-0.00030	-0.00029
	(!A1 * !B1 * !C0 * Y)	0.00028	0.00028	0.00028
	(!A1 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B1 * !C0 * Y)	-0.00005	-0.00005	-0.00005
	(!A1 * !B0 * B1 * !C0 * Y)	0.00028	0.00028	0.00028
	(!A1 * !B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * A1 * !B1 * !C0 * Y)	0.00028	0.00028	0.00028
	(!A0 * A1 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	0.00028	0.00028	0.00028
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00005	-0.00005	-0.00005

AOI222X0P7H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI222 cell provides the logical inverted OR of three AND groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT						OUTPUT
A0	A1	B0	B1	C0	C1	Y
0	x	0	x	0	x	1
0	x	0	x	1	0	1
0	x	x	x	1	1	0
0	x	1	0	0	x	1
0	x	1	0	1	0	1
x	x	1	1	x	x	0
1	0	0	x	0	x	1
1	0	0	x	1	0	1
1	0	x	x	1	1	0
1	0	1	0	0	x	1
1	0	1	0	1	0	1
1	1	x	x	x	x	0

Footprint

Cell Name	Area
AOI222X0P7H7H	3.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	A1	B0	B1	C0	C1	Y
AOI222X0P7H7H	0.00080	0.00083	0.00087	0.00089	0.00089	0.00093	0.01056

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI222X0P7H7H	0.00000	0.01517	0.02090

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI222X0P7H7H	A0->Y (FR)	0.14014	0.31033	0.76220
	A1->Y (FR)	0.13089	0.29979	0.75139
	B0->Y (FR)	0.13116	0.30156	0.77067
	B1->Y (FR)	0.12285	0.29183	0.76043
	C0->Y (FR)	0.10382	0.26707	0.72651
	C1->Y (FR)	0.09740	0.25898	0.71804

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI222X0P7H7H	A0->Y (RF)	0.05538	0.16541	0.48577
	A1->Y (RF)	0.05266	0.16056	0.48796
	B0->Y (RF)	0.04943	0.15619	0.47469
	B1->Y (RF)	0.04704	0.15109	0.47682
	C0->Y (RF)	0.03911	0.14167	0.45947
	C1->Y (RF)	0.03716	0.13626	0.46239

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI222X0P7H7H	A0	0.00225	0.00227	0.00228
	A0	-0.00024	-0.00024	-0.00023
	A0	0.00021	0.00021	0.00021
	A0	0.00001	0.00003	0.00004
	A1	0.00209	0.00213	0.00215
	A1	-0.00024	-0.00024	-0.00023
	A1	0.00017	0.00017	0.00017
	A1	0.00003	0.00007	0.00009
	B0	0.00183	0.00185	0.00187
	B0	-0.00016	-0.00015	-0.00014
	B0	0.00021	0.00021	0.00021
	B0	-0.00003	-0.00001	0.00001
	B1	0.00171	0.00174	0.00177
	B1	-0.00015	-0.00015	-0.00013
	B1	0.00017	0.00017	0.00017
	B1	-0.00001	0.00002	0.00005
	C0	0.00138	0.00142	0.00145
	C0	-0.00006	-0.00006	-0.00005
	C0	0.00021	0.00021	0.00021
	C0	-0.00010	-0.00008	-0.00005
	C1	0.00128	0.00132	0.00136
	C1	-0.00006	-0.00006	-0.00005
	C1	0.00017	0.00017	0.00017
	C1	-0.00010	-0.00006	-0.00002

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI222X0P7H7H	A0	-0.00010	-0.00008	-0.00007
	A0	0.00025	0.00025	0.00025
	A0	-0.00013	-0.00013	-0.00012
	A0	0.00202	0.00205	0.00207
	A1	-0.00011	-0.00008	-0.00007
	A1	0.00025	0.00025	0.00025
	A1	-0.00008	-0.00008	-0.00008
	A1	0.00180	0.00184	0.00187
	B0	-0.00009	-0.00006	-0.00003
	B0	0.00015	0.00015	0.00017
	B0	-0.00013	-0.00013	-0.00012
	B0	0.00177	0.00181	0.00182
	B1	-0.00011	-0.00008	-0.00005
	B1	0.00014	0.00015	0.00018
	B1	-0.00008	-0.00008	-0.00008
	B1	0.00157	0.00161	0.00163
	C0	-0.00010	-0.00007	-0.00005
	C0	0.00005	0.00006	0.00007
	C0	-0.00013	-0.00013	-0.00012
	C0	0.00147	0.00151	0.00153
	C1	-0.00012	-0.00008	-0.00005
	C1	0.00006	0.00006	0.00007
	C1	-0.00008	-0.00008	-0.00008
	C1	0.00131	0.00134	0.00137

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X0P7H7H	**(A1 * B0 * B1 * C0 * C1 * !Y)**	-0.00011	-0.00010	-0.00007
	(A1 * B0 * B1 * C0 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C0 * C1 * !Y)	0.00027	0.00027	0.00027
	(A1 * B0 * B1 * !C1 * !Y)	-0.00011	-0.00010	-0.00007
	(A1 * B0 * B1 * !C1 * !Y)	-0.00003	-0.00003	-0.00002
	(A1 * B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00001
	(A1 * B0 * B1 * !C1 * !Y)	0.00027	0.00027	0.00027
	(A1 * B0 * B1 * !C0 * C1 * !Y)	-0.00011	-0.00010	-0.00007
	(A1 * B0 * B1 * !C0 * C1 * !Y)	-0.00003	-0.00003	-0.00002
	(A1 * B0 * B1 * !C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * B1 * !C0 * C1 * !Y)	0.00027	0.00027	0.00027
	(A1 * !B1 * C0 * C1 * !Y)	-0.00011	-0.00009	-0.00007
	(A1 * !B1 * C0 * C1 * !Y)	-0.00003	-0.00003	-0.00002
	(A1 * !B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B1 * C0 * C1 * !Y)	0.00027	0.00027	0.00027
	(A1 * !B0 * B1 * C0 * C1 * !Y)	-0.00011	-0.00009	-0.00007
	(A1 * !B0 * B1 * C0 * C1 * !Y)	-0.00003	-0.00003	-0.00002
	(A1 * !B0 * B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * C0 * C1 * !Y)	0.00027	0.00027	0.00027
	(!A1 * B0 * B1 * !Y)	-0.00016	-0.00016	-0.00016
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !Y)	0.00001	0.00002	0.00002
	(!A1 * B0 * B1 * !Y)	0.00022	0.00023	0.00023
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	-0.00016	-0.00016	-0.00016
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	0.00001	0.00002	0.00002
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	0.00022	0.00023	0.00023
	(!A1 * !B1 * !C1 * Y)	-0.00016	-0.00016	-0.00016
	(!A1 * !B1 * !C1 * Y)	-0.00002	-0.00001	-0.00000
	(!A1 * !B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C1 * Y)	0.00023	0.00023	0.00023
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00016	-0.00016	-0.00016
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00002	-0.00001	-0.00000
	(!A1 * !B1 * !C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C0 * C1 * Y)	0.00023	0.00023	0.00023
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00016	-0.00016	-0.00016
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00002	-0.00001	-0.00000
	(!A1 * !B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C1 * Y)	0.00023	0.00023	0.00023
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	-0.00016	-0.00016	-0.00016
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	-0.00002	-0.00001	-0.00000
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	0.00023	0.00023	0.00023

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X0P7H7H	**(A1 * B0 * B1 * C0 * C1 * !Y)**	0.00011	0.00011	0.00011
	(A1 * B0 * B1 * C0 * C1 * !Y)	0.00003	0.00003	0.00003
	(A1 * B0 * B1 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * C0 * C1 * !Y)	-0.00027	-0.00026	-0.00026
	(A1 * B0 * B1 * !C1 * !Y)	0.00011	0.00011	0.00011
	(A1 * B0 * B1 * !C1 * !Y)	0.00003	0.00003	0.00003
	(A1 * B0 * B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * !C1 * !Y)	-0.00027	-0.00027	-0.00026
	(A1 * B0 * B1 * !C0 * C1 * !Y)	0.00011	0.00011	0.00011
	(A1 * B0 * B1 * !C0 * C1 * !Y)	0.00003	0.00003	0.00003
	(A1 * B0 * B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * !C0 * C1 * !Y)	-0.00027	-0.00027	-0.00026
	(A1 * !B1 * C0 * C1 * !Y)	0.00011	0.00011	0.00011
	(A1 * !B1 * C0 * C1 * !Y)	0.00002	0.00003	0.00003
	(A1 * !B1 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B1 * C0 * C1 * !Y)	-0.00027	-0.00027	-0.00027
	(A1 * !B0 * B1 * C0 * C1 * !Y)	0.00011	0.00011	0.00011
	(A1 * !B0 * B1 * C0 * C1 * !Y)	0.00002	0.00003	0.00003
	(A1 * !B0 * B1 * C0 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * B1 * C0 * C1 * !Y)	-0.00027	-0.00027	-0.00027
	(!A1 * B0 * B1 * !Y)	0.00016	0.00016	0.00016
	(!A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * B0 * B1 * !Y)	-0.00023	-0.00022	-0.00021
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	0.00016	0.00016	0.00016
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	-0.00023	-0.00022	-0.00021
	(!A1 * !B1 * !C1 * Y)	0.00016	0.00016	0.00017
	(!A1 * !B1 * !C1 * Y)	0.00001	0.00001	0.00002
	(!A1 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C1 * Y)	-0.00023	-0.00022	-0.00020
	(!A1 * !B1 * !C0 * C1 * Y)	0.00016	0.00016	0.00017
	(!A1 * !B1 * !C0 * C1 * Y)	0.00001	0.00001	0.00002
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00023	-0.00022	-0.00020
	(!A1 * !B0 * B1 * !C1 * Y)	0.00016	0.00016	0.00017
	(!A1 * !B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00023	-0.00022	-0.00020
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	0.00016	0.00016	0.00017
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	-0.00023	-0.00022	-0.00020

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X0P7H7H	**(A0 * B0 * B1 * C0 * C1 * !Y)**	-0.00011	-0.00009	-0.00007
	(A0 * B0 * B1 * C0 * C1 * !Y)	-0.00003	-0.00003	-0.00002
	(A0 * B0 * B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * C0 * C1 * !Y)	0.00024	0.00024	0.00025
	(A0 * B0 * B1 * !C1 * !Y)	-0.00011	-0.00009	-0.00007
	(A0 * B0 * B1 * !C1 * !Y)	-0.00003	-0.00003	-0.00002
	(A0 * B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00001
	(A0 * B0 * B1 * !C1 * !Y)	0.00024	0.00024	0.00025
	(A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00011	-0.00009	-0.00007
	(A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00003	-0.00003	-0.00002
	(A0 * B0 * B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !C0 * C1 * !Y)	0.00024	0.00025	0.00025
	(A0 * !B1 * C0 * C1 * !Y)	-0.00010	-0.00009	-0.00007
	(A0 * !B1 * C0 * C1 * !Y)	-0.00003	-0.00003	-0.00002
	(A0 * !B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00001
	(A0 * !B1 * C0 * C1 * !Y)	0.00024	0.00025	0.00025
	(A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00010	-0.00009	-0.00007
	(A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00003	-0.00003	-0.00002
	(A0 * !B0 * B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * B1 * C0 * C1 * !Y)	0.00024	0.00025	0.00025
	(!A0 * B0 * B1 * C0 * C1 * !Y)	-0.00016	-0.00015	-0.00015
	(!A0 * B0 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * C0 * C1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * B0 * B1 * C0 * C1 * !Y)	0.00021	0.00021	0.00021
	(!A0 * B0 * B1 * !C1 * !Y)	-0.00016	-0.00015	-0.00015
	(!A0 * B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * !C1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * B0 * B1 * !C1 * !Y)	0.00020	0.00021	0.00021
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00016	-0.00016	-0.00015
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	0.00001	0.00001	0.00002
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	0.00021	0.00021	0.00021
	(!A0 * !B1 * C0 * C1 * !Y)	-0.00016	-0.00015	-0.00015
	(!A0 * !B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * C0 * C1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !B1 * C0 * C1 * !Y)	0.00020	0.00020	0.00021
	(!A0 * !B1 * !C1 * Y)	-0.00022	-0.00022	-0.00022
	(!A0 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * !C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !B1 * !C1 * Y)	0.00007	0.00007	0.00007
	(!A0 * !B1 * !C0 * C1 * Y)	-0.00022	-0.00022	-0.00022
	(!A0 * !B1 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * !C0 * C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !B1 * !C0 * C1 * Y)	0.00007	0.00007	0.00007
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00016	-0.00015	-0.00015
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	0.00020	0.00020	0.00021
	(!A0 * !B0 * B1 * !C1 * Y)	-0.00022	-0.00022	-0.00022
	(!A0 * !B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * B1 * !C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !B0 * B1 * !C1 * Y)	0.00007	0.00007	0.00007
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	-0.00022	-0.00022	-0.00022
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	0.00007	0.00007	0.00007

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X0P7H7H	**(A0 * B0 * B1 * C0 * C1 * !Y)**	0.00011	0.00011	0.00011
	(A0 * B0 * B1 * C0 * C1 * !Y)	0.00003	0.00003	0.00003
	(A0 * B0 * B1 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * C0 * C1 * !Y)	-0.00024	-0.00024	-0.00024
	(A0 * B0 * B1 * !C1 * !Y)	0.00011	0.00011	0.00011
	(A0 * B0 * B1 * !C1 * !Y)	0.00002	0.00003	0.00003
	(A0 * B0 * B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * !C1 * !Y)	-0.00024	-0.00024	-0.00024
	(A0 * B0 * B1 * !C0 * C1 * !Y)	0.00011	0.00011	0.00011
	(A0 * B0 * B1 * !C0 * C1 * !Y)	0.00003	0.00003	0.00003
	(A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00024	-0.00024	-0.00024
	(A0 * !B1 * C0 * C1 * !Y)	0.00010	0.00010	0.00010
	(A0 * !B1 * C0 * C1 * !Y)	0.00002	0.00003	0.00003
	(A0 * !B1 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B1 * C0 * C1 * !Y)	-0.00024	-0.00024	-0.00024
	(A0 * !B0 * B1 * C0 * C1 * !Y)	0.00010	0.00010	0.00010
	(A0 * !B0 * B1 * C0 * C1 * !Y)	0.00002	0.00003	0.00003
	(A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00024	-0.00024	-0.00024
	(!A0 * B0 * B1 * C0 * C1 * !Y)	0.00015	0.00016	0.00016
	(!A0 * B0 * B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * C0 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * B0 * B1 * C0 * C1 * !Y)	-0.00021	-0.00020	-0.00019
	(!A0 * B0 * B1 * !C1 * !Y)	0.00015	0.00015	0.00016
	(!A0 * B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * B0 * B1 * !C1 * !Y)	-0.00021	-0.00020	-0.00019
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	0.00015	0.00016	0.00016
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00021	-0.00020	-0.00019
	(!A0 * !B1 * C0 * C1 * !Y)	0.00015	0.00015	0.00016
	(!A0 * !B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * C0 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B1 * C0 * C1 * !Y)	-0.00021	-0.00020	-0.00018
	(!A0 * !B1 * !C1 * Y)	0.00022	0.00022	0.00022
	(!A0 * !B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !B1 * !C1 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !B1 * !C0 * C1 * Y)	0.00022	0.00022	0.00022
	(!A0 * !B1 * !C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * !C0 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !B1 * !C0 * C1 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	0.00015	0.00015	0.00016
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00021	-0.00020	-0.00018
	(!A0 * !B0 * B1 * !C1 * Y)	0.00022	0.00022	0.00022
	(!A0 * !B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * B1 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !B0 * B1 * !C1 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	0.00022	0.00022	0.00022
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X0P7H7H	**(A0 * A1 * B1 * C0 * C1 * !Y)**	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * C0 * C1 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * A1 * B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * C1 * !Y)	0.00028	0.00028	0.00028
	(A0 * A1 * B1 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * !C1 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * B1 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B1 * !C1 * !Y)	0.00027	0.00028	0.00028
	(A0 * A1 * B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00001
	(A0 * A1 * B1 * !C0 * C1 * !Y)	0.00027	0.00028	0.00028
	(A0 * A1 * !B1 * C0 * C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * C1 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * A1 * !B1 * C0 * C1 * !Y)	0.00001	0.00002	0.00002
	(A0 * A1 * !B1 * C0 * C1 * !Y)	0.00024	0.00025	0.00025
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * !B1 * !C1 * !Y)	0.00001	0.00002	0.00002
	(A0 * A1 * !B1 * !C1 * !Y)	0.00024	0.00025	0.00025
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00001	0.00002	0.00002
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00024	0.00025	0.00025
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	-0.00017	-0.00017	-0.00017
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	0.00001	0.00002	0.00002
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	0.00022	0.00022	0.00022
	(!A1 * B1 * C0 * C1 * !Y)	-0.00013	-0.00012	-0.00010
	(!A1 * B1 * C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * B1 * C0 * C1 * !Y)	0.00026	0.00026	0.00026
	(!A1 * !B1 * !C1 * Y)	-0.00020	-0.00020	-0.00020
	(!A1 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C1 * Y)	0.00019	0.00019	0.00019
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00020	-0.00020	-0.00020
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C0 * C1 * Y)	0.00019	0.00019	0.00019
	(!A0 * A1 * B1 * C0 * C1 * !Y)	-0.00013	-0.00012	-0.00010
	(!A0 * A1 * B1 * C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * C1 * !Y)	0.00026	0.00026	0.00026
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00020	-0.00020	-0.00020
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !C1 * Y)	0.00019	0.00019	0.00019
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00020	-0.00020	-0.00020
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	0.00019	0.00019	0.00019

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X0P7H7H	**(A0 * A1 * B1 * C0 * C1 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * C1 * !Y)	0.00006	0.00006	0.00006
	(A0 * A1 * B1 * C0 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * C0 * C1 * !Y)	-0.00028	-0.00028	-0.00027
	(A0 * A1 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C1 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * !C1 * !Y)	-0.00028	-0.00028	-0.00027
	(A0 * A1 * B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * !Y)	-0.00028	-0.00027	-0.00027
	(A0 * A1 * !B1 * C0 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B1 * C0 * C1 * !Y)	0.00006	0.00006	0.00006
	(A0 * A1 * !B1 * C0 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * !B1 * C0 * C1 * !Y)	-0.00025	-0.00024	-0.00023
	(A0 * A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00025	-0.00024	-0.00023
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00025	-0.00024	-0.00023
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	0.00017	0.00017	0.00017
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	-0.00022	-0.00021	-0.00020
	(!A1 * B1 * C0 * C1 * !Y)	0.00013	0.00013	0.00013
	(!A1 * B1 * C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A1 * B1 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B1 * C0 * C1 * !Y)	-0.00026	-0.00025	-0.00025
	(!A1 * !B1 * !C1 * Y)	0.00020	0.00020	0.00021
	(!A1 * !B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C1 * Y)	-0.00019	-0.00018	-0.00017
	(!A1 * !B1 * !C0 * C1 * Y)	0.00020	0.00020	0.00021
	(!A1 * !B1 * !C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00019	-0.00018	-0.00017
	(!A0 * A1 * B1 * C0 * C1 * !Y)	0.00013	0.00013	0.00013
	(!A0 * A1 * B1 * C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * B1 * C0 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * B1 * C0 * C1 * !Y)	-0.00026	-0.00025	-0.00025
	(!A0 * A1 * !B1 * !C1 * Y)	0.00020	0.00020	0.00021
	(!A0 * A1 * !B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00019	-0.00018	-0.00017
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	0.00020	0.00020	0.00021
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00019	-0.00018	-0.00017

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X0P7H7H	**(A0 * A1 * B0 * C0 * C1 * !Y)**	-0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * C1 * !Y)	-0.00007	-0.00007	-0.00007
	(A0 * A1 * B0 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * C1 * !Y)	0.00026	0.00026	0.00026
	(A0 * A1 * B0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B0 * !C1 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * B0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(A0 * A1 * B0 * !C1 * !Y)	0.00026	0.00026	0.00026
	(A0 * A1 * B0 * !C0 * C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * C1 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * B0 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * C1 * !Y)	0.00026	0.00026	0.00026
	(A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * A1 * !B0 * C0 * C1 * !Y)	0.00001	0.00002	0.00002
	(A0 * A1 * !B0 * C0 * C1 * !Y)	0.00023	0.00023	0.00023
	(A0 * A1 * !B0 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C1 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * !B0 * !C1 * !Y)	0.00001	0.00002	0.00002
	(A0 * A1 * !B0 * !C1 * !Y)	0.00023	0.00023	0.00023
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00023	0.00023	0.00023
	(!A1 * B0 * C0 * C1 * !Y)	-0.00015	-0.00014	-0.00012
	(!A1 * B0 * C0 * C1 * !Y)	-0.00003	-0.00002	-0.00002
	(!A1 * B0 * C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * C0 * C1 * !Y)	0.00024	0.00024	0.00025
	(!A1 * !B0 * C0 * C1 * !Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B0 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * C0 * C1 * !Y)	0.00020	0.00020	0.00020
	(!A1 * !B0 * !C1 * Y)	-0.00029	-0.00029	-0.00029
	(!A1 * !B0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C1 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * !C1 * Y)	0.00004	0.00004	0.00004
	(!A1 * !B0 * !C0 * C1 * Y)	-0.00029	-0.00029	-0.00029
	(!A1 * !B0 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * C1 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * !C0 * C1 * Y)	0.00004	0.00004	0.00004
	(!A0 * A1 * B0 * C0 * C1 * !Y)	-0.00015	-0.00014	-0.00012
	(!A0 * A1 * B0 * C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * B0 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * C0 * C1 * !Y)	0.00024	0.00024	0.00024
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00019	-0.00019	-0.00019
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	0.00020	0.00020	0.00020
	(!A0 * A1 * !B0 * !C1 * Y)	-0.00029	-0.00029	-0.00029
	(!A0 * A1 * !B0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * !C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * !B0 * !C1 * Y)	0.00004	0.00004	0.00004
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00029	-0.00029	-0.00029
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	0.00004	0.00004	0.00004

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X0P7H7H	**(A0 * A1 * B0 * C0 * C1 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * C1 * !Y)	0.00007	0.00007	0.00007
	(A0 * A1 * B0 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * C0 * C1 * !Y)	-0.00026	-0.00026	-0.00026
	(A0 * A1 * B0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C1 * !Y)	0.00005	0.00006	0.00006
	(A0 * A1 * B0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * !C1 * !Y)	-0.00026	-0.00026	-0.00026
	(A0 * A1 * B0 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * C1 * !Y)	0.00005	0.00005	0.00006
	(A0 * A1 * B0 * !C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * !C0 * C1 * !Y)	-0.00026	-0.00026	-0.00026
	(A0 * A1 * !B0 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * C0 * C1 * !Y)	0.00006	0.00006	0.00006
	(A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00023	-0.00022	-0.00021
	(A0 * A1 * !B0 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C1 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * !B0 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * !B0 * !C1 * !Y)	-0.00023	-0.00022	-0.00021
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00023	-0.00022	-0.00021
	(!A1 * B0 * C0 * C1 * !Y)	0.00015	0.00015	0.00015
	(!A1 * B0 * C0 * C1 * !Y)	0.00002	0.00002	0.00003
	(!A1 * B0 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * C0 * C1 * !Y)	-0.00024	-0.00024	-0.00024
	(!A1 * !B0 * C0 * C1 * !Y)	0.00019	0.00019	0.00019
	(!A1 * !B0 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * C0 * C1 * !Y)	-0.00020	-0.00019	-0.00018
	(!A1 * !B0 * !C1 * Y)	0.00029	0.00029	0.00029
	(!A1 * !B0 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * !C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * !B0 * !C0 * C1 * Y)	0.00029	0.00029	0.00029
	(!A1 * !B0 * !C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C0 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * !C0 * C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A1 * B0 * C0 * C1 * !Y)	0.00015	0.00015	0.00015
	(!A0 * A1 * B0 * C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * B0 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * C0 * C1 * !Y)	-0.00024	-0.00024	-0.00023
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	0.00019	0.00019	0.00019
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00020	-0.00019	-0.00018
	(!A0 * A1 * !B0 * !C1 * Y)	0.00029	0.00029	0.00029
	(!A0 * A1 * !B0 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * !B0 * !C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	0.00029	0.00029	0.00029
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00004	-0.00004	-0.00004

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X0P7H7H	**(A1 * B0 * B1 * C1 * !Y)**	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * B1 * C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * B1 * C1 * !Y)	0.00033	0.00033	0.00033
	(A1 * B0 * B1 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * B1 * !C1 * !Y)	0.00001	0.00002	0.00002
	(A1 * B0 * B1 * !C1 * !Y)	0.00030	0.00030	0.00030
	(A0 * A1 * !B1 * C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C1 * !Y)	0.00032	0.00033	0.00033
	(A0 * A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B1 * !C1 * !Y)	0.00001	0.00002	0.00002
	(A0 * A1 * !B1 * !C1 * !Y)	0.00030	0.00030	0.00030
	(A0 * A1 * !B0 * B1 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B0 * B1 * C1 * !Y)	0.00000	0.00000	0.00001
	(A0 * A1 * !B0 * B1 * C1 * !Y)	0.00032	0.00033	0.00033
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00002
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00030	0.00030	0.00030
	(!A1 * B0 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1 * B0 * B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * C1 * !Y)	0.00032	0.00032	0.00033
	(!A1 * B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1 * B0 * B1 * !C1 * !Y)	0.00001	0.00002	0.00002
	(!A1 * B0 * B1 * !C1 * !Y)	0.00029	0.00030	0.00030
	(!A1 * !B1 * !C1 * Y)	-0.00021	-0.00021	-0.00020
	(!A1 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C1 * Y)	0.00001	0.00001	0.00002
	(!A1 * !B1 * !C1 * Y)	0.00019	0.00019	0.00019
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00021	-0.00021	-0.00020
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C1 * Y)	0.00018	0.00019	0.00019
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00021	-0.00021	-0.00020
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !C1 * Y)	0.00018	0.00019	0.00019
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00021	-0.00021	-0.00020
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	0.00019	0.00019	0.00019

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X0P7H7H	**(A1 * B0 * B1 * C1 * !Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C1 * !Y)	0.00003	0.00003	0.00004
	(A1 * B0 * B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * C1 * !Y)	-0.00033	-0.00032	-0.00032
	(A1 * B0 * B1 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C1 * !Y)	0.00003	0.00003	0.00003
	(A1 * B0 * B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * B0 * B1 * !C1 * !Y)	-0.00030	-0.00029	-0.00028
	(A0 * A1 * !B1 * C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C1 * !Y)	0.00003	0.00003	0.00004
	(A0 * A1 * !B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B1 * C1 * !Y)	-0.00033	-0.00032	-0.00032
	(A0 * A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00030	-0.00029	-0.00028
	(A0 * A1 * !B0 * B1 * C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C1 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B0 * B1 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C1 * !Y)	-0.00033	-0.00032	-0.00032
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00002	-0.00001	-0.00001
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00030	-0.00029	-0.00028
	(!A1 * B0 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * C1 * !Y)	0.00003	0.00003	0.00003
	(!A1 * B0 * B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * C1 * !Y)	-0.00033	-0.00032	-0.00032
	(!A1 * B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C1 * !Y)	0.00003	0.00003	0.00003
	(!A1 * B0 * B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * B0 * B1 * !C1 * !Y)	-0.00030	-0.00029	-0.00028
	(!A1 * !B1 * !C1 * Y)	0.00021	0.00021	0.00022
	(!A1 * !B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C1 * Y)	-0.00002	-0.00001	-0.00001
	(!A1 * !B1 * !C1 * Y)	-0.00019	-0.00018	-0.00017
	(!A1 * !B0 * B1 * !C1 * Y)	0.00021	0.00021	0.00022
	(!A1 * !B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00019	-0.00018	-0.00017
	(!A0 * A1 * !B1 * !C1 * Y)	0.00021	0.00021	0.00022
	(!A0 * A1 * !B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00019	-0.00018	-0.00017
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	0.00021	0.00021	0.00022
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00019	-0.00018	-0.00017

Passive power(pJ) for C1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X0P7H7H	**(A1 * B0 * B1 * C0 * !Y)**	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * C0 * !Y)	-0.00004	-0.00003	-0.00003
	(A1 * B0 * B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * B1 * C0 * !Y)	0.00035	0.00035	0.00035
	(A1 * B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * !C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * B1 * !C0 * !Y)	0.00001	0.00002	0.00002
	(A1 * B0 * B1 * !C0 * !Y)	0.00032	0.00032	0.00032
	(A0 * A1 * !B1 * C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * !Y)	0.00035	0.00035	0.00035
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B1 * !C0 * !Y)	0.00001	0.00002	0.00002
	(A0 * A1 * !B1 * !C0 * !Y)	0.00032	0.00032	0.00032
	(A0 * A1 * !B0 * B1 * C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B0 * B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B0 * B1 * C0 * !Y)	0.00035	0.00035	0.00035
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00001	0.00002	0.00002
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00032	0.00032	0.00032
	(!A1 * B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1 * B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * C0 * !Y)	0.00034	0.00035	0.00035
	(!A1 * B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !C0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1 * B0 * B1 * !C0 * !Y)	0.00001	0.00002	0.00002
	(!A1 * B0 * B1 * !C0 * !Y)	0.00032	0.00032	0.00032
	(!A1 * !B1 * !C0 * Y)	-0.00030	-0.00030	-0.00030
	(!A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C0 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B1 * !C0 * Y)	0.00005	0.00005	0.00005
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00030	-0.00030	-0.00030
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C0 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * B1 * !C0 * Y)	0.00005	0.00005	0.00005
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00030	-0.00030	-0.00030
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * !B1 * !C0 * Y)	0.00005	0.00005	0.00005
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00030	-0.00030	-0.00030
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	0.00005	0.00005	0.00005

Passive power(pJ) for C1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

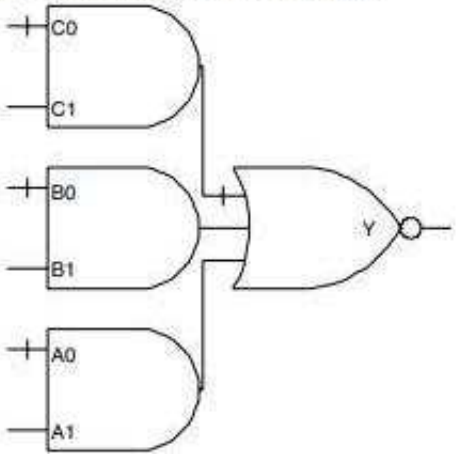
AOI222X0P7H7H	**(A1 * B0 * B1 * C0 * !Y)**	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C0 * !Y)	0.00004	0.00004	0.00004
	(A1 * B0 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * C0 * !Y)	-0.00035	-0.00035	-0.00035
	(A1 * B0 * B1 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C0 * !Y)	0.00003	0.00003	0.00003
	(A1 * B0 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * B0 * B1 * !C0 * !Y)	-0.00032	-0.00032	-0.00030
	(A0 * A1 * !B1 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B1 * C0 * !Y)	0.00003	0.00004	0.00004
	(A0 * A1 * !B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B1 * C0 * !Y)	-0.00035	-0.00035	-0.00034
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00032	-0.00031	-0.00030
	(A0 * A1 * !B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C0 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * !B0 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B0 * B1 * C0 * !Y)	-0.00035	-0.00035	-0.00034
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00032	-0.00031	-0.00030
	(!A1 * B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * C0 * !Y)	0.00003	0.00003	0.00003
	(!A1 * B0 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * C0 * !Y)	-0.00035	-0.00035	-0.00034
	(!A1 * B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C0 * !Y)	0.00003	0.00003	0.00003
	(!A1 * B0 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * B0 * B1 * !C0 * !Y)	-0.00032	-0.00031	-0.00030
	(!A1 * !B1 * !C0 * Y)	0.00030	0.00030	0.00030
	(!A1 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B1 * !C0 * Y)	-0.00005	-0.00005	-0.00005
	(!A1 * !B0 * B1 * !C0 * Y)	0.00030	0.00030	0.00030
	(!A1 * !B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * A1 * !B1 * !C0 * Y)	0.00030	0.00030	0.00030
	(!A0 * A1 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	0.00030	0.00030	0.00030
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00005	-0.00005	-0.00005

AOI222X1H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI222 cell provides the logical inverted OR of three AND groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT						OUTPUT
A0	A1	B0	B1	C0	C1	Y
0	x	0	x	0	x	1
0	x	0	x	1	0	1
0	x	x	x	1	1	0
0	x	1	0	0	x	1
0	x	1	0	1	0	1
x	x	1	1	x	x	0
1	0	0	x	0	x	1
1	0	0	x	1	0	1
1	0	x	x	1	1	0
1	0	1	0	0	x	1
1	0	1	0	1	0	1
1	1	x	x	x	x	0

Footprint

Cell Name	Area
AOI222X1H7H	3.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	A1	B0	B1	C0	C1	Y
AOI222X1H7H	0.00086	0.00090	0.00094	0.00096	0.00096	0.00100	0.01274

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI222X1H7H	0.00000	0.01921	0.03476

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI222X1H7H	A0->Y (FR)	0.12941	0.30188	0.76172
	A1->Y (FR)	0.12072	0.29191	0.75099
	B0->Y (FR)	0.12148	0.29449	0.77133
	B1->Y (FR)	0.11320	0.28491	0.76186
	C0->Y (FR)	0.09359	0.25948	0.72605
	C1->Y (FR)	0.08729	0.25166	0.71874

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI222X1H7H	A0->Y (RF)	0.05325	0.16701	0.49994
	A1->Y (RF)	0.05048	0.16126	0.49861
	B0->Y (RF)	0.04756	0.15807	0.48835
	B1->Y (RF)	0.04493	0.15194	0.48752
	C0->Y (RF)	0.03687	0.14280	0.47332
	C1->Y (RF)	0.03481	0.13659	0.47284

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI222X1H7H	A0	0.00251	0.00253	0.00255
	A0	-0.00029	-0.00029	-0.00028
	A0	0.00025	0.00025	0.00025
	A0	0.00001	0.00003	0.00004
	A1	0.00234	0.00238	0.00240
	A1	-0.00029	-0.00029	-0.00028
	A1	0.00020	0.00020	0.00020
	A1	0.00003	0.00007	0.00010
	B0	0.00206	0.00209	0.00211
	B0	-0.00019	-0.00019	-0.00016
	B0	0.00025	0.00025	0.00025
	B0	-0.00002	0.00000	0.00002
	B1	0.00191	0.00195	0.00198
	B1	-0.00020	-0.00019	-0.00017
	B1	0.00020	0.00020	0.00020
	B1	-0.00000	0.00004	0.00007
	C0	0.00152	0.00157	0.00160
	C0	-0.00007	-0.00007	-0.00005
	C0	0.00025	0.00025	0.00025
	C0	-0.00012	-0.00009	-0.00006
	C1	0.00139	0.00145	0.00149
	C1	-0.00007	-0.00007	-0.00006
	C1	0.00020	0.00020	0.00020
	C1	-0.00011	-0.00007	-0.00003

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI222X1H7H	A0	-0.00012	-0.00010	-0.00008
	A0	0.00029	0.00030	0.00031
	A0	-0.00015	-0.00015	-0.00015
	A0	0.00225	0.00230	0.00232
	A1	-0.00012	-0.00010	-0.00008
	A1	0.00030	0.00031	0.00031
	A1	-0.00010	-0.00010	-0.00009
	A1	0.00202	0.00206	0.00209
	B0	-0.00011	-0.00008	-0.00004
	B0	0.00018	0.00020	0.00023
	B0	-0.00015	-0.00015	-0.00015
	B0	0.00198	0.00201	0.00204
	B1	-0.00013	-0.00009	-0.00005
	B1	0.00019	0.00020	0.00022
	B1	-0.00010	-0.00010	-0.00009
	B1	0.00174	0.00179	0.00182
	C0	-0.00012	-0.00008	-0.00005
	C0	0.00006	0.00007	0.00008
	C0	-0.00015	-0.00015	-0.00015
	C0	0.00163	0.00167	0.00170
	C1	-0.00014	-0.00010	-0.00006
	C1	0.00007	0.00007	0.00008
	C1	-0.00010	-0.00010	-0.00009
	C1	0.00144	0.00148	0.00151

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X1H7H	**(A1 * B0 * B1 * C0 * C1 * !Y)**	-0.00013	-0.00011	-0.00009
	(A1 * B0 * B1 * C0 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * B1 * C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * B1 * C0 * C1 * !Y)	0.00028	0.00028	0.00028
	(A1 * B0 * B1 * !C1 * !Y)	-0.00013	-0.00011	-0.00008
	(A1 * B0 * B1 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * B1 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * B1 * !C1 * !Y)	0.00028	0.00028	0.00028
	(A1 * B0 * B1 * !C0 * C1 * !Y)	-0.00013	-0.00011	-0.00008
	(A1 * B0 * B1 * !C0 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * B1 * !C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * B1 * !C0 * C1 * !Y)	0.00028	0.00028	0.00028
	(A1 * !B1 * C0 * C1 * !Y)	-0.00013	-0.00011	-0.00008
	(A1 * !B1 * C0 * C1 * !Y)	-0.00003	-0.00003	-0.00002
	(A1 * !B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00001
	(A1 * !B1 * C0 * C1 * !Y)	0.00028	0.00028	0.00029
	(A1 * !B0 * B1 * C0 * C1 * !Y)	-0.00012	-0.00011	-0.00008
	(A1 * !B0 * B1 * C0 * C1 * !Y)	-0.00004	-0.00003	-0.00003
	(A1 * !B0 * B1 * C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * B1 * C0 * C1 * !Y)	0.00028	0.00028	0.00029
	(!A1 * B0 * B1 * !Y)	-0.00019	-0.00018	-0.00018
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * B1 * !Y)	0.00023	0.00024	0.00024
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	-0.00019	-0.00018	-0.00018
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	0.00024	0.00024	0.00024
	(!A1 * !B1 * !C1 * Y)	-0.00019	-0.00018	-0.00018
	(!A1 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B1 * !C1 * Y)	0.00024	0.00024	0.00024
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00019	-0.00018	-0.00018
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C0 * C1 * Y)	0.00001	0.00002	0.00002
	(!A1 * !B1 * !C0 * C1 * Y)	0.00024	0.00024	0.00024
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00019	-0.00018	-0.00018
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * B1 * !C1 * Y)	0.00024	0.00024	0.00025
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	-0.00019	-0.00018	-0.00018
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	0.00024	0.00024	0.00024

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X1H7H	**(A1 * B0 * B1 * C0 * C1 * !Y)**	0.00013	0.00013	0.00013
	(A1 * B0 * B1 * C0 * C1 * !Y)	0.00003	0.00003	0.00003
	(A1 * B0 * B1 * C0 * C1 * !Y)	-0.00001	-0.00000	-0.00000
	(A1 * B0 * B1 * C0 * C1 * !Y)	-0.00028	-0.00028	-0.00027
	(A1 * B0 * B1 * !C1 * !Y)	0.00013	0.00013	0.00013
	(A1 * B0 * B1 * !C1 * !Y)	0.00003	0.00003	0.00003
	(A1 * B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * B1 * !C1 * !Y)	-0.00028	-0.00028	-0.00028
	(A1 * B0 * B1 * !C0 * C1 * !Y)	0.00013	0.00013	0.00013
	(A1 * B0 * B1 * !C0 * C1 * !Y)	0.00003	0.00003	0.00003
	(A1 * B0 * B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * B1 * !C0 * C1 * !Y)	-0.00028	-0.00028	-0.00028
	(A1 * !B1 * C0 * C1 * !Y)	0.00012	0.00013	0.00013
	(A1 * !B1 * C0 * C1 * !Y)	0.00002	0.00003	0.00003
	(A1 * !B1 * C0 * C1 * !Y)	-0.00001	-0.00000	0.00000
	(A1 * !B1 * C0 * C1 * !Y)	-0.00028	-0.00028	-0.00028
	(A1 * !B0 * B1 * C0 * C1 * !Y)	0.00012	0.00012	0.00012
	(A1 * !B0 * B1 * C0 * C1 * !Y)	0.00003	0.00003	0.00004
	(A1 * !B0 * B1 * C0 * C1 * !Y)	-0.00001	-0.00000	0.00000
	(A1 * !B0 * B1 * C0 * C1 * !Y)	-0.00028	-0.00028	-0.00028
	(!A1 * B0 * B1 * !Y)	0.00018	0.00018	0.00019
	(!A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * B1 * !Y)	-0.00024	-0.00023	-0.00022
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	0.00018	0.00018	0.00019
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	-0.00024	-0.00023	-0.00022
	(!A1 * !B1 * !C1 * Y)	0.00019	0.00019	0.00019
	(!A1 * !B1 * !C1 * Y)	0.00001	0.00001	0.00002
	(!A1 * !B1 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B1 * !C1 * Y)	-0.00024	-0.00023	-0.00021
	(!A1 * !B1 * !C0 * C1 * Y)	0.00019	0.00019	0.00019
	(!A1 * !B1 * !C0 * C1 * Y)	0.00001	0.00001	0.00002
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00024	-0.00023	-0.00021
	(!A1 * !B0 * B1 * !C1 * Y)	0.00019	0.00019	0.00019
	(!A1 * !B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00024	-0.00023	-0.00021
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	0.00019	0.00019	0.00019
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	-0.00024	-0.00023	-0.00021

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X1H7H	**(A0 * B0 * B1 * C0 * C1 * !Y)**	-0.00013	-0.00011	-0.00008
	(A0 * B0 * B1 * C0 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * B1 * C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * B0 * B1 * C0 * C1 * !Y)	0.00025	0.00026	0.00026
	(A0 * B0 * B1 * !C1 * !Y)	-0.00013	-0.00011	-0.00008
	(A0 * B0 * B1 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * B1 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * B0 * B1 * !C1 * !Y)	0.00025	0.00026	0.00026
	(A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00013	-0.00011	-0.00008
	(A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00001
	(A0 * B0 * B1 * !C0 * C1 * !Y)	0.00025	0.00026	0.00026
	(A0 * !B1 * C0 * C1 * !Y)	-0.00012	-0.00010	-0.00008
	(A0 * !B1 * C0 * C1 * !Y)	-0.00004	-0.00003	-0.00002
	(A0 * !B1 * C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * !B1 * C0 * C1 * !Y)	0.00026	0.00026	0.00026
	(A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00012	-0.00010	-0.00008
	(A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00003	-0.00003	-0.00002
	(A0 * !B0 * B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00001
	(A0 * !B0 * B1 * C0 * C1 * !Y)	0.00026	0.00026	0.00026
	(!A0 * B0 * B1 * C0 * C1 * !Y)	-0.00018	-0.00018	-0.00018
	(!A0 * B0 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * B0 * B1 * C0 * C1 * !Y)	0.00021	0.00022	0.00022
	(!A0 * B0 * B1 * !C1 * !Y)	-0.00018	-0.00018	-0.00018
	(!A0 * B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * !C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * B0 * B1 * !C1 * !Y)	0.00021	0.00021	0.00022
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00018	-0.00018	-0.00018
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	0.00021	0.00021	0.00022
	(!A0 * !B1 * C0 * C1 * !Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !B1 * C0 * C1 * !Y)	0.00021	0.00021	0.00022
	(!A0 * !B1 * !C1 * Y)	-0.00025	-0.00025	-0.00025
	(!A0 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * !C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !B1 * !C1 * Y)	0.00006	0.00007	0.00007
	(!A0 * !B1 * !C0 * C1 * Y)	-0.00025	-0.00025	-0.00025
	(!A0 * !B1 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * !C0 * C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !B1 * !C0 * C1 * Y)	0.00006	0.00007	0.00007
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	0.00021	0.00021	0.00022
	(!A0 * !B0 * B1 * !C1 * Y)	-0.00025	-0.00025	-0.00025
	(!A0 * !B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * B1 * !C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !B0 * B1 * !C1 * Y)	0.00006	0.00007	0.00007
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	-0.00025	-0.00025	-0.00025
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	0.00006	0.00007	0.00007

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X1H7H	**(A0 * B0 * B1 * C0 * C1 * !Y)**	0.00013	0.00013	0.00013
	(A0 * B0 * B1 * C0 * C1 * !Y)	0.00003	0.00003	0.00003
	(A0 * B0 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * B1 * C0 * C1 * !Y)	-0.00025	-0.00025	-0.00025
	(A0 * B0 * B1 * !C1 * !Y)	0.00013	0.00013	0.00013
	(A0 * B0 * B1 * !C1 * !Y)	0.00003	0.00003	0.00003
	(A0 * B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * B1 * !C1 * !Y)	-0.00025	-0.00025	-0.00025
	(A0 * B0 * B1 * !C0 * C1 * !Y)	0.00013	0.00013	0.00013
	(A0 * B0 * B1 * !C0 * C1 * !Y)	0.00003	0.00003	0.00003
	(A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00001	-0.00000	0.00000
	(A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00025	-0.00025	-0.00025
	(A0 * !B1 * C0 * C1 * !Y)	0.00012	0.00012	0.00012
	(A0 * !B1 * C0 * C1 * !Y)	0.00002	0.00003	0.00004
	(A0 * !B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B1 * C0 * C1 * !Y)	-0.00026	-0.00026	-0.00025
	(A0 * !B0 * B1 * C0 * C1 * !Y)	0.00012	0.00012	0.00012
	(A0 * !B0 * B1 * C0 * C1 * !Y)	0.00002	0.00003	0.00003
	(A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00001	-0.00000	0.00000
	(A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00026	-0.00026	-0.00026
	(!A0 * B0 * B1 * C0 * C1 * !Y)	0.00018	0.00018	0.00018
	(!A0 * B0 * B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * B0 * B1 * C0 * C1 * !Y)	-0.00022	-0.00021	-0.00019
	(!A0 * B0 * B1 * !C1 * !Y)	0.00018	0.00018	0.00018
	(!A0 * B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * B0 * B1 * !C1 * !Y)	-0.00022	-0.00021	-0.00019
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	0.00018	0.00018	0.00018
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00022	-0.00021	-0.00020
	(!A0 * !B1 * C0 * C1 * !Y)	0.00018	0.00018	0.00018
	(!A0 * !B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !B1 * C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B1 * C0 * C1 * !Y)	-0.00022	-0.00021	-0.00019
	(!A0 * !B1 * !C1 * Y)	0.00025	0.00025	0.00025
	(!A0 * !B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !B1 * !C1 * Y)	-0.00007	-0.00007	-0.00006
	(!A0 * !B1 * !C0 * C1 * Y)	0.00025	0.00025	0.00025
	(!A0 * !B1 * !C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * !C0 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !B1 * !C0 * C1 * Y)	-0.00007	-0.00007	-0.00006
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	0.00018	0.00018	0.00018
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00022	-0.00021	-0.00020
	(!A0 * !B0 * B1 * !C1 * Y)	0.00025	0.00025	0.00025
	(!A0 * !B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * B1 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !B0 * B1 * !C1 * Y)	-0.00007	-0.00007	-0.00006
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	0.00025	0.00025	0.00025
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	-0.00007	-0.00007	-0.00006

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X1H7H	**(A0 * A1 * B1 * C0 * C1 * !Y)**	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * C0 * C1 * !Y)	-0.00007	-0.00007	-0.00007
	(A0 * A1 * B1 * C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B1 * C0 * C1 * !Y)	0.00029	0.00030	0.00030
	(A0 * A1 * B1 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * !C1 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * A1 * B1 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B1 * !C1 * !Y)	0.00029	0.00030	0.00030
	(A0 * A1 * B1 * !C0 * C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * A1 * B1 * !C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B1 * !C0 * C1 * !Y)	0.00029	0.00029	0.00030
	(A0 * A1 * !B1 * C0 * C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * C1 * !Y)	-0.00007	-0.00007	-0.00007
	(A0 * A1 * !B1 * C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B1 * C0 * C1 * !Y)	0.00026	0.00026	0.00026
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00005	-0.00006	-0.00005
	(A0 * A1 * !B1 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B1 * !C1 * !Y)	0.00026	0.00026	0.00026
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00006	-0.00006	-0.00005
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00001	0.00002	0.00002
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00026	0.00026	0.00026
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	-0.00020	-0.00019	-0.00019
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	0.00023	0.00023	0.00023
	(!A1 * B1 * C0 * C1 * !Y)	-0.00015	-0.00013	-0.00011
	(!A1 * B1 * C0 * C1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A1 * B1 * C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * B1 * C0 * C1 * !Y)	0.00027	0.00028	0.00028
	(!A1 * !B1 * !C1 * Y)	-0.00023	-0.00023	-0.00022
	(!A1 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B1 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B1 * !C1 * Y)	0.00021	0.00021	0.00021
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00023	-0.00023	-0.00022
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00002	-0.00001	-0.00001
	(!A1 * !B1 * !C0 * C1 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B1 * !C0 * C1 * Y)	0.00020	0.00021	0.00021
	(!A0 * A1 * B1 * C0 * C1 * !Y)	-0.00015	-0.00013	-0.00011
	(!A0 * A1 * B1 * C0 * C1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * A1 * B1 * C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * B1 * C0 * C1 * !Y)	0.00027	0.00028	0.00028
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00023	-0.00023	-0.00022
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B1 * !C1 * Y)	0.00021	0.00021	0.00021
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00023	-0.00023	-0.00022
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	0.00020	0.00021	0.00021

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X1H7H	**(A0 * A1 * B1 * C0 * C1 * !Y)**	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * C1 * !Y)	0.00007	0.00007	0.00007
	(A0 * A1 * B1 * C0 * C1 * !Y)	-0.00001	-0.00000	-0.00000
	(A0 * A1 * B1 * C0 * C1 * !Y)	-0.00030	-0.00030	-0.00029
	(A0 * A1 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C1 * !Y)	0.00006	0.00006	0.00006
	(A0 * A1 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * B1 * !C1 * !Y)	-0.00030	-0.00029	-0.00029
	(A0 * A1 * B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * !Y)	0.00006	0.00006	0.00006
	(A0 * A1 * B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * B1 * !C0 * C1 * !Y)	-0.00030	-0.00029	-0.00029
	(A0 * A1 * !B1 * C0 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B1 * C0 * C1 * !Y)	0.00007	0.00007	0.00007
	(A0 * A1 * !B1 * C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B1 * C0 * C1 * !Y)	-0.00026	-0.00025	-0.00024
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * !Y)	0.00005	0.00006	0.00005
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00026	-0.00025	-0.00024
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00005	0.00006	0.00006
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00026	-0.00026	-0.00025
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	0.00019	0.00020	0.00020
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	-0.00023	-0.00022	-0.00021
	(!A1 * B1 * C0 * C1 * !Y)	0.00015	0.00015	0.00015
	(!A1 * B1 * C0 * C1 * !Y)	0.00003	0.00003	0.00003
	(!A1 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B1 * C0 * C1 * !Y)	-0.00028	-0.00027	-0.00027
	(!A1 * !B1 * !C1 * Y)	0.00023	0.00023	0.00024
	(!A1 * !B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B1 * !C1 * Y)	-0.00021	-0.00019	-0.00018
	(!A1 * !B1 * !C0 * C1 * Y)	0.00023	0.00023	0.00024
	(!A1 * !B1 * !C0 * C1 * Y)	0.00001	0.00001	0.00002
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00021	-0.00019	-0.00018
	(!A0 * A1 * B1 * C0 * C1 * !Y)	0.00015	0.00015	0.00015
	(!A0 * A1 * B1 * C0 * C1 * !Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * B1 * C0 * C1 * !Y)	-0.00027	-0.00027	-0.00027
	(!A0 * A1 * !B1 * !C1 * Y)	0.00023	0.00023	0.00024
	(!A0 * A1 * !B1 * !C1 * Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00021	-0.00019	-0.00018
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	0.00023	0.00023	0.00024
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00021	-0.00019	-0.00018

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X1H7H	**(A0 * A1 * B0 * C0 * C1 * !Y)**	-0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * C1 * !Y)	-0.00008	-0.00008	-0.00008
	(A0 * A1 * B0 * C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B0 * C0 * C1 * !Y)	0.00028	0.00028	0.00028
	(A0 * A1 * B0 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C1 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * A1 * B0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B0 * !C1 * !Y)	0.00028	0.00028	0.00028
	(A0 * A1 * B0 * !C0 * C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * C1 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * A1 * B0 * !C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B0 * !C0 * C1 * !Y)	0.00027	0.00028	0.00028
	(A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00007	-0.00007	-0.00007
	(A0 * A1 * !B0 * C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * C0 * C1 * !Y)	0.00024	0.00025	0.00025
	(A0 * A1 * !B0 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C1 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * A1 * !B0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * !C1 * !Y)	0.00024	0.00025	0.00025
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00001	0.00002	0.00002
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00024	0.00025	0.00025
	(!A1 * B0 * C0 * C1 * !Y)	-0.00017	-0.00015	-0.00012
	(!A1 * B0 * C0 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1 * B0 * C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * C0 * C1 * !Y)	0.00026	0.00026	0.00026
	(!A1 * !B0 * C0 * C1 * !Y)	-0.00021	-0.00021	-0.00021
	(!A1 * !B0 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * C0 * C1 * !Y)	0.00021	0.00021	0.00022
	(!A1 * !B0 * !C1 * Y)	-0.00031	-0.00031	-0.00031
	(!A1 * !B0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C1 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * !C1 * Y)	0.00004	0.00004	0.00004
	(!A1 * !B0 * !C0 * C1 * Y)	-0.00031	-0.00031	-0.00031
	(!A1 * !B0 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * C1 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * !C0 * C1 * Y)	0.00004	0.00004	0.00004
	(!A0 * A1 * B0 * C0 * C1 * !Y)	-0.00017	-0.00015	-0.00012
	(!A0 * A1 * B0 * C0 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * B0 * C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * B0 * C0 * C1 * !Y)	0.00025	0.00026	0.00026
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00021	-0.00021	-0.00021
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	0.00021	0.00021	0.00021
	(!A0 * A1 * !B0 * !C1 * Y)	-0.00031	-0.00031	-0.00031
	(!A0 * A1 * !B0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * !C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * !B0 * !C1 * Y)	0.00004	0.00004	0.00004
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00031	-0.00031	-0.00031
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	0.00004	0.00004	0.00004

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X1H7H	**(A0 * A1 * B0 * C0 * C1 * !Y)**	-0.00000	-0.00000	0.00000
	(A0 * A1 * B0 * C0 * C1 * !Y)	0.00008	0.00008	0.00008
	(A0 * A1 * B0 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * B0 * C0 * C1 * !Y)	-0.00028	-0.00028	-0.00028
	(A0 * A1 * B0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C1 * !Y)	0.00006	0.00006	0.00006
	(A0 * A1 * B0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * B0 * !C1 * !Y)	-0.00028	-0.00028	-0.00027
	(A0 * A1 * B0 * !C0 * C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * C1 * !Y)	0.00006	0.00006	0.00006
	(A0 * A1 * B0 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * B0 * !C0 * C1 * !Y)	-0.00028	-0.00028	-0.00027
	(A0 * A1 * !B0 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * C0 * C1 * !Y)	0.00007	0.00007	0.00007
	(A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00025	-0.00024	-0.00022
	(A0 * A1 * !B0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C1 * !Y)	0.00006	0.00006	0.00006
	(A0 * A1 * !B0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * !C1 * !Y)	-0.00025	-0.00024	-0.00023
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00006	0.00006	0.00006
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00025	-0.00024	-0.00022
	(!A1 * B0 * C0 * C1 * !Y)	0.00016	0.00016	0.00017
	(!A1 * B0 * C0 * C1 * !Y)	0.00003	0.00003	0.00003
	(!A1 * B0 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * C0 * C1 * !Y)	-0.00026	-0.00026	-0.00025
	(!A1 * !B0 * C0 * C1 * !Y)	0.00021	0.00021	0.00021
	(!A1 * !B0 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * C0 * C1 * !Y)	-0.00022	-0.00020	-0.00019
	(!A1 * !B0 * !C1 * Y)	0.00031	0.00031	0.00031
	(!A1 * !B0 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * !C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * !B0 * !C0 * C1 * Y)	0.00031	0.00031	0.00031
	(!A1 * !B0 * !C0 * C1 * Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * !C0 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * !C0 * C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A1 * B0 * C0 * C1 * !Y)	0.00016	0.00016	0.00017
	(!A0 * A1 * B0 * C0 * C1 * !Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * B0 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * B0 * C0 * C1 * !Y)	-0.00026	-0.00026	-0.00025
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	0.00021	0.00021	0.00021
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00021	-0.00020	-0.00019
	(!A0 * A1 * !B0 * !C1 * Y)	0.00031	0.00031	0.00031
	(!A0 * A1 * !B0 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * !B0 * !C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	0.00031	0.00031	0.00031
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00004	-0.00004	-0.00004

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X1H7H	**(A1 * B0 * B1 * C1 * !Y)**	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C1 * !Y)	-0.00004	-0.00004	-0.00004
	(A1 * B0 * B1 * C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * B1 * C1 * !Y)	0.00035	0.00035	0.00035
	(A1 * B0 * B1 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * !C1 * !Y)	-0.00004	-0.00004	-0.00004
	(A1 * B0 * B1 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * !C1 * !Y)	0.00032	0.00032	0.00032
	(A0 * A1 * !B1 * C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C1 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * !B1 * C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B1 * C1 * !Y)	0.00035	0.00035	0.00035
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * !B1 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B1 * !C1 * !Y)	0.00032	0.00032	0.00032
	(A0 * A1 * !B0 * B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C1 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * !B0 * B1 * C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B0 * B1 * C1 * !Y)	0.00035	0.00035	0.00035
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00001	0.00002	0.00002
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00032	0.00032	0.00032
	(!A1 * B0 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * C1 * !Y)	-0.00004	-0.00003	-0.00003
	(!A1 * B0 * B1 * C1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * B1 * C1 * !Y)	0.00035	0.00035	0.00035
	(!A1 * B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !C1 * !Y)	-0.00004	-0.00003	-0.00003
	(!A1 * B0 * B1 * !C1 * !Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * B1 * !C1 * !Y)	0.00032	0.00032	0.00032
	(!A1 * !B1 * !C1 * Y)	-0.00023	-0.00023	-0.00023
	(!A1 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C1 * Y)	0.00001	0.00002	0.00002
	(!A1 * !B1 * !C1 * Y)	0.00019	0.00020	0.00020
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00023	-0.00023	-0.00023
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C1 * Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * B1 * !C1 * Y)	0.00019	0.00020	0.00020
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00023	-0.00023	-0.00023
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B1 * !C1 * Y)	0.00020	0.00020	0.00020
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00023	-0.00023	-0.00023
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	0.00019	0.00020	0.00020

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X1H7H	**(A1 * B0 * B1 * C1 * !Y)**	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C1 * !Y)	0.00004	0.00004	0.00004
	(A1 * B0 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * B1 * C1 * !Y)	-0.00035	-0.00035	-0.00035
	(A1 * B0 * B1 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C1 * !Y)	0.00004	0.00004	0.00004
	(A1 * B0 * B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * B1 * !C1 * !Y)	-0.00032	-0.00031	-0.00030
	(A0 * A1 * !B1 * C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C1 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B1 * C1 * !Y)	-0.00035	-0.00035	-0.00034
	(A0 * A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00032	-0.00031	-0.00030
	(A0 * A1 * !B0 * B1 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C1 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * !B0 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B0 * B1 * C1 * !Y)	-0.00035	-0.00035	-0.00034
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00032	-0.00031	-0.00030
	(!A1 * B0 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * C1 * !Y)	0.00004	0.00004	0.00004
	(!A1 * B0 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * C1 * !Y)	-0.00035	-0.00035	-0.00034
	(!A1 * B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C1 * !Y)	0.00003	0.00003	0.00004
	(!A1 * B0 * B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * B1 * !C1 * !Y)	-0.00032	-0.00031	-0.00030
	(!A1 * !B1 * !C1 * Y)	0.00023	0.00023	0.00024
	(!A1 * !B1 * !C1 * Y)	0.00001	0.00001	0.00002
	(!A1 * !B1 * !C1 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B1 * !C1 * Y)	-0.00020	-0.00019	-0.00018
	(!A1 * !B0 * B1 * !C1 * Y)	0.00023	0.00023	0.00024
	(!A1 * !B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00020	-0.00019	-0.00018
	(!A0 * A1 * !B1 * !C1 * Y)	0.00023	0.00023	0.00024
	(!A0 * A1 * !B1 * !C1 * Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00020	-0.00019	-0.00018
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	0.00023	0.00023	0.00024
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00020	-0.00019	-0.00018

Passive power(pJ) for C1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X1H7H	**(A1 * B0 * B1 * C0 * !Y)**	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C0 * !Y)	-0.00004	-0.00004	-0.00004
	(A1 * B0 * B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * B1 * C0 * !Y)	0.00037	0.00037	0.00037
	(A1 * B0 * B1 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C0 * !Y)	-0.00004	-0.00004	-0.00004
	(A1 * B0 * B1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * !C0 * !Y)	0.00034	0.00034	0.00034
	(A0 * A1 * !B1 * C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * !B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B1 * C0 * !Y)	0.00037	0.00037	0.00037
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * !B1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B1 * !C0 * !Y)	0.00034	0.00034	0.00034
	(A0 * A1 * !B0 * B1 * C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C0 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * !B0 * B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B0 * B1 * C0 * !Y)	0.00037	0.00037	0.00037
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00001	0.00002	0.00002
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00034	0.00034	0.00034
	(!A1 * B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * C0 * !Y)	-0.00004	-0.00004	-0.00004
	(!A1 * B0 * B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * B1 * C0 * !Y)	0.00037	0.00037	0.00037
	(!A1 * B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !C0 * !Y)	-0.00004	-0.00004	-0.00004
	(!A1 * B0 * B1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * B1 * !C0 * !Y)	0.00034	0.00034	0.00034
	(!A1 * !B1 * !C0 * Y)	-0.00033	-0.00033	-0.00033
	(!A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C0 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B1 * !C0 * Y)	0.00005	0.00005	0.00005
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00033	-0.00033	-0.00033
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C0 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * B1 * !C0 * Y)	0.00005	0.00005	0.00005
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00033	-0.00033	-0.00033
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * !B1 * !C0 * Y)	0.00005	0.00005	0.00005
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00033	-0.00033	-0.00033
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	0.00005	0.00005	0.00005

Passive power(pJ) for C1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

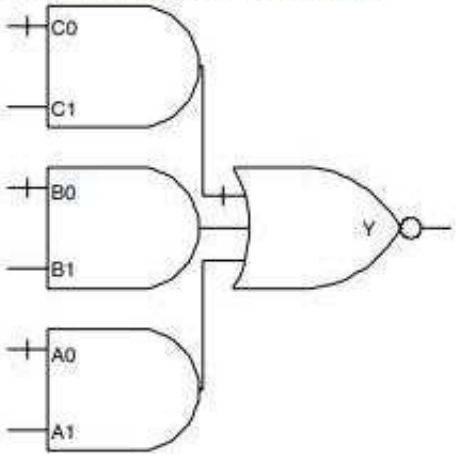
AOI222X1H7H	**(A1 * B0 * B1 * C0 * !Y)**	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C0 * !Y)	0.00004	0.00004	0.00004
	(A1 * B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * B1 * C0 * !Y)	-0.00037	-0.00037	-0.00037
	(A1 * B0 * B1 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C0 * !Y)	0.00004	0.00004	0.00004
	(A1 * B0 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * B1 * !C0 * !Y)	-0.00034	-0.00033	-0.00032
	(A0 * A1 * !B1 * C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B1 * C0 * !Y)	-0.00037	-0.00037	-0.00037
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00034	-0.00033	-0.00032
	(A0 * A1 * !B0 * B1 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C0 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * !B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B0 * B1 * C0 * !Y)	-0.00037	-0.00037	-0.00036
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00034	-0.00033	-0.00032
	(!A1 * B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * C0 * !Y)	0.00004	0.00004	0.00004
	(!A1 * B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * C0 * !Y)	-0.00037	-0.00037	-0.00036
	(!A1 * B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C0 * !Y)	0.00004	0.00004	0.00004
	(!A1 * B0 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * B1 * !C0 * !Y)	-0.00034	-0.00033	-0.00032
	(!A1 * !B1 * !C0 * Y)	0.00033	0.00033	0.00033
	(!A1 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B1 * !C0 * Y)	-0.00005	-0.00005	-0.00004
	(!A1 * !B0 * B1 * !C0 * Y)	0.00033	0.00033	0.00033
	(!A1 * !B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00005	-0.00005	-0.00004
	(!A0 * A1 * !B1 * !C0 * Y)	0.00033	0.00033	0.00033
	(!A0 * A1 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00005	-0.00005	-0.00004
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	0.00033	0.00033	0.00033
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00005	-0.00005	-0.00004

AOI222X1P4H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI222 cell provides the logical inverted OR of three AND groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT						OUTPUT
A0	A1	B0	B1	C0	C1	Y
0	x	0	x	0	x	1
0	x	0	x	1	0	1
0	x	x	x	1	1	0
0	x	1	0	0	x	1
0	x	1	0	1	0	1
x	x	1	1	x	x	0
1	0	0	x	0	x	1
1	0	0	x	1	0	1
1	0	x	x	1	1	0
1	0	1	0	0	x	1
1	0	1	0	1	0	1
1	1	x	x	x	x	0

Footprint

Cell Name	Area
AOI222X1P4H7H	3.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	A1	B0	B1	C0	C1	Y
AOI222X1P4H7H	0.00093	0.00097	0.00100	0.00105	0.00104	0.00106	0.01451

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI222X1P4H7H	0.00000	0.02436	0.05179

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI222X1P4H7H	A0->Y (FR)	0.12389	0.29744	0.76094
	A1->Y (FR)	0.11538	0.28764	0.75049
	B0->Y (FR)	0.11572	0.28989	0.77061
	B1->Y (FR)	0.10823	0.28111	0.76276
	C0->Y (FR)	0.09054	0.25775	0.72853
	C1->Y (FR)	0.08347	0.24916	0.72086

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI222X1P4H7H	A0->Y (RF)	0.05160	0.16645	0.50322
	A1->Y (RF)	0.04879	0.16014	0.49983
	B0->Y (RF)	0.04578	0.15716	0.49282
	B1->Y (RF)	0.04327	0.15072	0.48967
	C0->Y (RF)	0.03586	0.14283	0.47842
	C1->Y (RF)	0.03309	0.13545	0.47498

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI222X1P4H7H	A0	0.00277	0.00279	0.00281
	A0	-0.00034	-0.00034	-0.00033
	A0	0.00029	0.00029	0.00029
	A0	-0.00000	0.00002	0.00003
	A1	0.00258	0.00262	0.00264
	A1	-0.00034	-0.00034	-0.00033
	A1	0.00023	0.00023	0.00023
	A1	0.00002	0.00006	0.00009
	B0	0.00227	0.00230	0.00233
	B0	-0.00022	-0.00022	-0.00019
	B0	0.00029	0.00029	0.00029
	B0	-0.00002	0.00001	0.00003
	B1	0.00210	0.00215	0.00218
	B1	-0.00023	-0.00022	-0.00019
	B1	0.00023	0.00023	0.00023
	B1	-0.00001	0.00003	0.00007
	C0	0.00169	0.00175	0.00179
	C0	-0.00009	-0.00008	-0.00006
	C0	0.00029	0.00029	0.00029
	C0	-0.00010	-0.00007	-0.00004
	C1	0.00154	0.00160	0.00165
	C1	-0.00009	-0.00008	-0.00005
	C1	0.00023	0.00023	0.00023
	C1	-0.00011	-0.00006	-0.00001

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI222X1P4H7H	A0	-0.00013	-0.00011	-0.00009
	A0	0.00035	0.00036	0.00036
	A0	-0.00017	-0.00017	-0.00017
	A0	0.00250	0.00254	0.00256
	A1	-0.00014	-0.00011	-0.00009
	A1	0.00035	0.00036	0.00036
	A1	-0.00011	-0.00011	-0.00011
	A1	0.00221	0.00228	0.00231
	B0	-0.00014	-0.00010	-0.00006
	B0	0.00022	0.00023	0.00026
	B0	-0.00017	-0.00017	-0.00017
	B0	0.00216	0.00220	0.00222
	B1	-0.00016	-0.00012	-0.00007
	B1	0.00023	0.00023	0.00024
	B1	-0.00011	-0.00011	-0.00010
	B1	0.00191	0.00197	0.00200
	C0	-0.00014	-0.00010	-0.00007
	C0	0.00008	0.00009	0.00011
	C0	-0.00017	-0.00017	-0.00017
	C0	0.00178	0.00183	0.00186
	C1	-0.00016	-0.00011	-0.00008
	C1	0.00005	0.00008	0.00012
	C1	-0.00011	-0.00011	-0.00011
	C1	0.00157	0.00161	0.00165

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X1P4H7H	**(A1 * B0 * B1 * C0 * C1 * !Y)**	-0.00015	-0.00013	-0.00010
	(A1 * B0 * B1 * C0 * C1 * !Y)	-0.00004	-0.00003	-0.00003
	(A1 * B0 * B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * C0 * C1 * !Y)	0.00029	0.00029	0.00029
	(A1 * B0 * B1 * !C1 * !Y)	-0.00015	-0.00013	-0.00010
	(A1 * B0 * B1 * !C1 * !Y)	-0.00004	-0.00003	-0.00003
	(A1 * B0 * B1 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * B1 * !C1 * !Y)	0.00029	0.00029	0.00029
	(A1 * B0 * B1 * !C0 * C1 * !Y)	-0.00015	-0.00013	-0.00010
	(A1 * B0 * B1 * !C0 * C1 * !Y)	-0.00004	-0.00003	-0.00003
	(A1 * B0 * B1 * !C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * B1 * !C0 * C1 * !Y)	0.00029	0.00029	0.00029
	(A1 * !B1 * C0 * C1 * !Y)	-0.00014	-0.00012	-0.00009
	(A1 * !B1 * C0 * C1 * !Y)	-0.00004	-0.00004	-0.00003
	(A1 * !B1 * C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * !B1 * C0 * C1 * !Y)	0.00029	0.00029	0.00030
	(A1 * !B0 * B1 * C0 * C1 * !Y)	-0.00014	-0.00012	-0.00009
	(A1 * !B0 * B1 * C0 * C1 * !Y)	-0.00004	-0.00003	-0.00003
	(A1 * !B0 * B1 * C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * B1 * C0 * C1 * !Y)	0.00029	0.00029	0.00030
	(!A1 * B0 * B1 * !Y)	-0.00021	-0.00021	-0.00020
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * B1 * !Y)	0.00025	0.00025	0.00025
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	-0.00021	-0.00021	-0.00020
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	0.00025	0.00025	0.00025
	(!A1 * !B1 * !C1 * Y)	-0.00021	-0.00021	-0.00020
	(!A1 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B1 * !C1 * Y)	0.00025	0.00025	0.00025
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00021	-0.00021	-0.00020
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C0 * C1 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B1 * !C0 * C1 * Y)	0.00025	0.00025	0.00025
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00021	-0.00021	-0.00020
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * B1 * !C1 * Y)	0.00025	0.00025	0.00025
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	-0.00021	-0.00021	-0.00020
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	0.00025	0.00025	0.00025

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X1P4H7H	**(A1 * B0 * B1 * C0 * C1 * !Y)**	0.00015	0.00015	0.00015
	(A1 * B0 * B1 * C0 * C1 * !Y)	0.00004	0.00003	0.00004
	(A1 * B0 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * C0 * C1 * !Y)	-0.00029	-0.00029	-0.00029
	(A1 * B0 * B1 * !C1 * !Y)	0.00015	0.00015	0.00015
	(A1 * B0 * B1 * !C1 * !Y)	0.00003	0.00003	0.00004
	(A1 * B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * B1 * !C1 * !Y)	-0.00029	-0.00029	-0.00028
	(A1 * B0 * B1 * !C0 * C1 * !Y)	0.00015	0.00015	0.00015
	(A1 * B0 * B1 * !C0 * C1 * !Y)	0.00003	0.00003	0.00004
	(A1 * B0 * B1 * !C0 * C1 * !Y)	-0.00001	-0.00000	0.00000
	(A1 * B0 * B1 * !C0 * C1 * !Y)	-0.00029	-0.00029	-0.00029
	(A1 * !B1 * C0 * C1 * !Y)	0.00014	0.00014	0.00014
	(A1 * !B1 * C0 * C1 * !Y)	0.00004	0.00004	0.00004
	(A1 * !B1 * C0 * C1 * !Y)	-0.00001	-0.00001	0.00000
	(A1 * !B1 * C0 * C1 * !Y)	-0.00029	-0.00029	-0.00029
	(A1 * !B0 * B1 * C0 * C1 * !Y)	0.00014	0.00014	0.00014
	(A1 * !B0 * B1 * C0 * C1 * !Y)	0.00003	0.00003	0.00004
	(A1 * !B0 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	0.00000
	(A1 * !B0 * B1 * C0 * C1 * !Y)	-0.00029	-0.00029	-0.00029
	(!A1 * B0 * B1 * !Y)	0.00021	0.00021	0.00021
	(!A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * B1 * !Y)	-0.00025	-0.00024	-0.00023
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	0.00020	0.00021	0.00021
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	0.00001	0.00002	0.00002
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	-0.00025	-0.00024	-0.00022
	(!A1 * !B1 * !C1 * Y)	0.00021	0.00021	0.00022
	(!A1 * !B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B1 * !C1 * Y)	-0.00025	-0.00024	-0.00023
	(!A1 * !B1 * !C0 * C1 * Y)	0.00021	0.00021	0.00022
	(!A1 * !B1 * !C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00025	-0.00024	-0.00023
	(!A1 * !B0 * B1 * !C1 * Y)	0.00021	0.00021	0.00022
	(!A1 * !B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00025	-0.00024	-0.00023
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	0.00021	0.00021	0.00022
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	-0.00025	-0.00024	-0.00023

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X1P4H7H	**(A0 * B0 * B1 * C0 * C1 * !Y)**	-0.00015	-0.00013	-0.00010
	(A0 * B0 * B1 * C0 * C1 * !Y)	-0.00004	-0.00003	-0.00003
	(A0 * B0 * B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * C0 * C1 * !Y)	0.00027	0.00027	0.00027
	(A0 * B0 * B1 * !C1 * !Y)	-0.00015	-0.00013	-0.00010
	(A0 * B0 * B1 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * !C1 * !Y)	0.00027	0.00027	0.00027
	(A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00015	-0.00013	-0.00010
	(A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00004	-0.00003	-0.00003
	(A0 * B0 * B1 * !C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * B0 * B1 * !C0 * C1 * !Y)	0.00027	0.00027	0.00027
	(A0 * !B1 * C0 * C1 * !Y)	-0.00014	-0.00012	-0.00009
	(A0 * !B1 * C0 * C1 * !Y)	-0.00004	-0.00003	-0.00003
	(A0 * !B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B1 * C0 * C1 * !Y)	0.00027	0.00027	0.00027
	(A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00014	-0.00012	-0.00009
	(A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00004	-0.00003	-0.00003
	(A0 * !B0 * B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * B1 * C0 * C1 * !Y)	0.00027	0.00027	0.00027
	(!A0 * B0 * B1 * C0 * C1 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * B0 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * B0 * B1 * C0 * C1 * !Y)	0.00023	0.00023	0.00023
	(!A0 * B0 * B1 * !C1 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * !C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * B0 * B1 * !C1 * !Y)	0.00022	0.00023	0.00023
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	0.00002	0.00002	0.00003
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	0.00022	0.00022	0.00023
	(!A0 * !B1 * C0 * C1 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !B1 * C0 * C1 * !Y)	0.00022	0.00023	0.00023
	(!A0 * !B1 * !C1 * Y)	-0.00028	-0.00028	-0.00028
	(!A0 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * !C1 * Y)	0.00004	0.00004	0.00004
	(!A0 * !B1 * !C1 * Y)	0.00006	0.00006	0.00006
	(!A0 * !B1 * !C0 * C1 * Y)	-0.00028	-0.00028	-0.00028
	(!A0 * !B1 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * !C0 * C1 * Y)	0.00004	0.00004	0.00004
	(!A0 * !B1 * !C0 * C1 * Y)	0.00006	0.00006	0.00006
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	0.00023	0.00023	0.00023
	(!A0 * !B0 * B1 * !C1 * Y)	-0.00028	-0.00028	-0.00028
	(!A0 * !B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * B1 * !C1 * Y)	0.00004	0.00004	0.00004
	(!A0 * !B0 * B1 * !C1 * Y)	0.00006	0.00006	0.00006
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	-0.00028	-0.00028	-0.00028
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	0.00004	0.00004	0.00004
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X1P4H7H	**(A0 * B0 * B1 * C0 * C1 * !Y)**	0.00014	0.00015	0.00015
	(A0 * B0 * B1 * C0 * C1 * !Y)	0.00003	0.00003	0.00004
	(A0 * B0 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * C0 * C1 * !Y)	-0.00027	-0.00027	-0.00027
	(A0 * B0 * B1 * !C1 * !Y)	0.00014	0.00015	0.00015
	(A0 * B0 * B1 * !C1 * !Y)	0.00003	0.00003	0.00003
	(A0 * B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * !C1 * !Y)	-0.00027	-0.00027	-0.00026
	(A0 * B0 * B1 * !C0 * C1 * !Y)	0.00014	0.00015	0.00015
	(A0 * B0 * B1 * !C0 * C1 * !Y)	0.00003	0.00003	0.00004
	(A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	0.00000
	(A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00027	-0.00027	-0.00027
	(A0 * !B1 * C0 * C1 * !Y)	0.00014	0.00014	0.00014
	(A0 * !B1 * C0 * C1 * !Y)	0.00003	0.00003	0.00004
	(A0 * !B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B1 * C0 * C1 * !Y)	-0.00027	-0.00027	-0.00026
	(A0 * !B0 * B1 * C0 * C1 * !Y)	0.00014	0.00014	0.00014
	(A0 * !B0 * B1 * C0 * C1 * !Y)	0.00003	0.00003	0.00004
	(A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00027	-0.00027	-0.00026
	(!A0 * B0 * B1 * C0 * C1 * !Y)	0.00020	0.00020	0.00020
	(!A0 * B0 * B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * B0 * B1 * C0 * C1 * !Y)	-0.00023	-0.00022	-0.00020
	(!A0 * B0 * B1 * !C1 * !Y)	0.00020	0.00020	0.00020
	(!A0 * B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * B0 * B1 * !C1 * !Y)	-0.00023	-0.00022	-0.00020
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	0.00020	0.00020	0.00020
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00023	-0.00022	-0.00020
	(!A0 * !B1 * C0 * C1 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B1 * C0 * C1 * !Y)	-0.00023	-0.00022	-0.00020
	(!A0 * !B1 * !C1 * Y)	0.00028	0.00028	0.00028
	(!A0 * !B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * !C1 * Y)	-0.00004	-0.00004	-0.00003
	(!A0 * !B1 * !C1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !B1 * !C0 * C1 * Y)	0.00028	0.00028	0.00028
	(!A0 * !B1 * !C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * !C0 * C1 * Y)	-0.00004	-0.00004	-0.00003
	(!A0 * !B1 * !C0 * C1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00023	-0.00022	-0.00020
	(!A0 * !B0 * B1 * !C1 * Y)	0.00028	0.00028	0.00028
	(!A0 * !B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * B1 * !C1 * Y)	-0.00004	-0.00004	-0.00003
	(!A0 * !B0 * B1 * !C1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	0.00028	0.00028	0.00028
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	-0.00004	-0.00004	-0.00003
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X1P4H7H	**(A0 * A1 * B1 * C0 * C1 * !Y)**	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * C0 * C1 * !Y)	-0.00009	-0.00009	-0.00009
	(A0 * A1 * B1 * C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B1 * C0 * C1 * !Y)	0.00029	0.00029	0.00029
	(A0 * A1 * B1 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * !C1 * !Y)	-0.00007	-0.00007	-0.00007
	(A0 * A1 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B1 * !C1 * !Y)	0.00029	0.00029	0.00029
	(A0 * A1 * B1 * !C0 * C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * !Y)	-0.00007	-0.00007	-0.00007
	(A0 * A1 * B1 * !C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B1 * !C0 * C1 * !Y)	0.00029	0.00029	0.00029
	(A0 * A1 * !B1 * C0 * C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * C1 * !Y)	-0.00009	-0.00009	-0.00008
	(A0 * A1 * !B1 * C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B1 * C0 * C1 * !Y)	0.00025	0.00025	0.00025
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00007	-0.00007	-0.00007
	(A0 * A1 * !B1 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B1 * !C1 * !Y)	0.00025	0.00026	0.00026
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00007	-0.00007	-0.00007
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00002	0.00002	0.00003
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00025	0.00025	0.00026
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	-0.00023	-0.00023	-0.00023
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	0.00023	0.00023	0.00023
	(!A1 * B1 * C0 * C1 * !Y)	-0.00018	-0.00015	-0.00013
	(!A1 * B1 * C0 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1 * B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B1 * C0 * C1 * !Y)	0.00027	0.00027	0.00028
	(!A1 * !B1 * !C1 * Y)	-0.00026	-0.00026	-0.00025
	(!A1 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B1 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B1 * !C1 * Y)	0.00020	0.00020	0.00021
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00026	-0.00026	-0.00025
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B1 * !C0 * C1 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B1 * !C0 * C1 * Y)	0.00020	0.00020	0.00021
	(!A0 * A1 * B1 * C0 * C1 * !Y)	-0.00018	-0.00015	-0.00013
	(!A0 * A1 * B1 * C0 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B1 * C0 * C1 * !Y)	0.00027	0.00027	0.00028
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00026	-0.00026	-0.00025
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B1 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B1 * !C1 * Y)	0.00020	0.00020	0.00020
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00026	-0.00026	-0.00025
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	0.00020	0.00020	0.00021

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X1P4H7H	**(A0 * A1 * B1 * C0 * C1 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * C1 * !Y)	0.00009	0.00009	0.00009
	(A0 * A1 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * B1 * C0 * C1 * !Y)	-0.00029	-0.00029	-0.00028
	(A0 * A1 * B1 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C1 * !Y)	0.00007	0.00007	0.00007
	(A0 * A1 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B1 * !C1 * !Y)	-0.00029	-0.00029	-0.00028
	(A0 * A1 * B1 * !C0 * C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * !Y)	0.00007	0.00007	0.00007
	(A0 * A1 * B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * B1 * !C0 * C1 * !Y)	-0.00029	-0.00029	-0.00029
	(A0 * A1 * !B1 * C0 * C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * C1 * !Y)	0.00008	0.00009	0.00009
	(A0 * A1 * !B1 * C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B1 * C0 * C1 * !Y)	-0.00025	-0.00024	-0.00023
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * !Y)	0.00007	0.00007	0.00007
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00025	-0.00024	-0.00023
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00007	0.00007	0.00007
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00003	-0.00002	-0.00002
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00026	-0.00024	-0.00023
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	0.00023	0.00023	0.00023
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	-0.00023	-0.00022	-0.00021
	(!A1 * B1 * C0 * C1 * !Y)	0.00018	0.00018	0.00018
	(!A1 * B1 * C0 * C1 * !Y)	0.00003	0.00003	0.00003
	(!A1 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B1 * C0 * C1 * !Y)	-0.00027	-0.00027	-0.00026
	(!A1 * !B1 * !C1 * Y)	0.00026	0.00026	0.00027
	(!A1 * !B1 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B1 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B1 * !C1 * Y)	-0.00020	-0.00019	-0.00017
	(!A1 * !B1 * !C0 * C1 * Y)	0.00026	0.00026	0.00027
	(!A1 * !B1 * !C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00020	-0.00019	-0.00017
	(!A0 * A1 * B1 * C0 * C1 * !Y)	0.00017	0.00017	0.00018
	(!A0 * A1 * B1 * C0 * C1 * !Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * B1 * C0 * C1 * !Y)	-0.00027	-0.00027	-0.00027
	(!A0 * A1 * !B1 * !C1 * Y)	0.00026	0.00026	0.00027
	(!A0 * A1 * !B1 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00020	-0.00019	-0.00017
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	0.00026	0.00026	0.00027
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00020	-0.00019	-0.00017

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X1P4H7H	**(A0 * A1 * B0 * C0 * C1 * !Y)**	-0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * C1 * !Y)	-0.00009	-0.00009	-0.00009
	(A0 * A1 * B0 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * C0 * C1 * !Y)	0.00029	0.00029	0.00029
	(A0 * A1 * B0 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C1 * !Y)	-0.00007	-0.00007	-0.00007
	(A0 * A1 * B0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * !C1 * !Y)	0.00029	0.00029	0.00029
	(A0 * A1 * B0 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * C1 * !Y)	-0.00007	-0.00007	-0.00007
	(A0 * A1 * B0 * !C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * !C0 * C1 * !Y)	0.00029	0.00029	0.00029
	(A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00009	-0.00009	-0.00009
	(A0 * A1 * !B0 * C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * C0 * C1 * !Y)	0.00025	0.00025	0.00026
	(A0 * A1 * !B0 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C1 * !Y)	-0.00007	-0.00007	-0.00007
	(A0 * A1 * !B0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * !C1 * !Y)	0.00025	0.00026	0.00026
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00007	-0.00007	-0.00007
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00001	0.00002	0.00003
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00025	0.00026	0.00026
	(!A1 * B0 * C0 * C1 * !Y)	-0.00018	-0.00016	-0.00013
	(!A1 * B0 * C0 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1 * B0 * C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * C0 * C1 * !Y)	0.00027	0.00027	0.00028
	(!A1 * !B0 * C0 * C1 * !Y)	-0.00023	-0.00023	-0.00023
	(!A1 * !B0 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * C0 * C1 * !Y)	0.00023	0.00023	0.00023
	(!A1 * !B0 * !C1 * Y)	-0.00035	-0.00035	-0.00034
	(!A1 * !B0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C1 * Y)	0.00004	0.00004	0.00004
	(!A1 * !B0 * !C1 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * !C0 * C1 * Y)	-0.00035	-0.00035	-0.00034
	(!A1 * !B0 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * C1 * Y)	0.00004	0.00004	0.00004
	(!A1 * !B0 * !C0 * C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * B0 * C0 * C1 * !Y)	-0.00018	-0.00016	-0.00013
	(!A0 * A1 * B0 * C0 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * B0 * C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * B0 * C0 * C1 * !Y)	0.00027	0.00027	0.00027
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00023	-0.00023	-0.00023
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	0.00023	0.00023	0.00023
	(!A0 * A1 * !B0 * !C1 * Y)	-0.00035	-0.00035	-0.00034
	(!A0 * A1 * !B0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * !C1 * Y)	0.00004	0.00004	0.00004
	(!A0 * A1 * !B0 * !C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00035	-0.00035	-0.00034
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	0.00004	0.00004	0.00004
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	0.00003	0.00003	0.00003

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X1P4H7H	**(A0 * A1 * B0 * C0 * C1 * !Y)**	-0.00000	-0.00000	0.00000
	(A0 * A1 * B0 * C0 * C1 * !Y)	0.00009	0.00009	0.00009
	(A0 * A1 * B0 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B0 * C0 * C1 * !Y)	-0.00029	-0.00029	-0.00029
	(A0 * A1 * B0 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C1 * !Y)	0.00007	0.00007	0.00007
	(A0 * A1 * B0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B0 * !C1 * !Y)	-0.00029	-0.00029	-0.00029
	(A0 * A1 * B0 * !C0 * C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * C1 * !Y)	0.00007	0.00007	0.00008
	(A0 * A1 * B0 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B0 * !C0 * C1 * !Y)	-0.00029	-0.00029	-0.00029
	(A0 * A1 * !B0 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * C0 * C1 * !Y)	0.00009	0.00009	0.00009
	(A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00026	-0.00024	-0.00023
	(A0 * A1 * !B0 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C1 * !Y)	0.00007	0.00007	0.00007
	(A0 * A1 * !B0 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * !B0 * !C1 * !Y)	-0.00026	-0.00025	-0.00023
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00007	0.00007	0.00007
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00003	-0.00002	-0.00001
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00026	-0.00024	-0.00023
	(!A1 * B0 * C0 * C1 * !Y)	0.00018	0.00018	0.00018
	(!A1 * B0 * C0 * C1 * !Y)	0.00003	0.00003	0.00003
	(!A1 * B0 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * C0 * C1 * !Y)	-0.00027	-0.00027	-0.00027
	(!A1 * !B0 * C0 * C1 * !Y)	0.00023	0.00023	0.00023
	(!A1 * !B0 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * C0 * C1 * !Y)	-0.00023	-0.00022	-0.00020
	(!A1 * !B0 * !C1 * Y)	0.00034	0.00035	0.00035
	(!A1 * !B0 * !C1 * Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * !C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * !B0 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * !C0 * C1 * Y)	0.00034	0.00035	0.00035
	(!A1 * !B0 * !C0 * C1 * Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * !C0 * C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * !B0 * !C0 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * B0 * C0 * C1 * !Y)	0.00018	0.00018	0.00018
	(!A0 * A1 * B0 * C0 * C1 * !Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * B0 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * B0 * C0 * C1 * !Y)	-0.00027	-0.00027	-0.00027
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	0.00023	0.00023	0.00023
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00023	-0.00022	-0.00021
	(!A0 * A1 * !B0 * !C1 * Y)	0.00034	0.00035	0.00035
	(!A0 * A1 * !B0 * !C1 * Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * !B0 * !C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A1 * !B0 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	0.00034	0.00035	0.00035
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00003	-0.00003	-0.00003

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X1P4H7H	**(A1 * B0 * B1 * C1 * !Y)**	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C1 * !Y)	-0.00004	-0.00004	-0.00004
	(A1 * B0 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * C1 * !Y)	0.00037	0.00037	0.00037
	(A1 * B0 * B1 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * !C1 * !Y)	-0.00004	-0.00004	-0.00004
	(A1 * B0 * B1 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * !C1 * !Y)	0.00034	0.00034	0.00034
	(A0 * A1 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C1 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * !B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * C1 * !Y)	0.00037	0.00037	0.00037
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * !B1 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B1 * !C1 * !Y)	0.00034	0.00034	0.00034
	(A0 * A1 * !B0 * B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C1 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * !B0 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * B1 * C1 * !Y)	0.00037	0.00037	0.00037
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00001	0.00002	0.00002
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00034	0.00034	0.00034
	(!A1 * B0 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * C1 * !Y)	-0.00004	-0.00004	-0.00004
	(!A1 * B0 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * C1 * !Y)	0.00036	0.00037	0.00037
	(!A1 * B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !C1 * !Y)	-0.00004	-0.00004	-0.00004
	(!A1 * B0 * B1 * !C1 * !Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * B1 * !C1 * !Y)	0.00034	0.00034	0.00034
	(!A1 * !B1 * !C1 * Y)	-0.00026	-0.00026	-0.00026
	(!A1 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B1 * !C1 * Y)	0.00020	0.00020	0.00020
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00026	-0.00026	-0.00026
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * B1 * !C1 * Y)	0.00020	0.00020	0.00020
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00026	-0.00026	-0.00026
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B1 * !C1 * Y)	0.00020	0.00020	0.00020
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00026	-0.00026	-0.00026
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	0.00020	0.00020	0.00020

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X1P4H7H	**(A1 * B0 * B1 * C1 * !Y)**	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C1 * !Y)	0.00005	0.00005	0.00005
	(A1 * B0 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * C1 * !Y)	-0.00037	-0.00037	-0.00036
	(A1 * B0 * B1 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C1 * !Y)	0.00004	0.00004	0.00004
	(A1 * B0 * B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * B1 * !C1 * !Y)	-0.00034	-0.00033	-0.00032
	(A0 * A1 * !B1 * C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C1 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * C1 * !Y)	-0.00037	-0.00037	-0.00036
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00034	-0.00033	-0.00032
	(A0 * A1 * !B0 * B1 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C1 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * !B0 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * B1 * C1 * !Y)	-0.00037	-0.00036	-0.00036
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00034	-0.00033	-0.00032
	(!A1 * B0 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * C1 * !Y)	0.00004	0.00004	0.00005
	(!A1 * B0 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * C1 * !Y)	-0.00037	-0.00037	-0.00036
	(!A1 * B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C1 * !Y)	0.00004	0.00004	0.00004
	(!A1 * B0 * B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * B1 * !C1 * !Y)	-0.00034	-0.00033	-0.00032
	(!A1 * !B1 * !C1 * Y)	0.00026	0.00026	0.00027
	(!A1 * !B1 * !C1 * Y)	0.00001	0.00001	0.00002
	(!A1 * !B1 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B1 * !C1 * Y)	-0.00020	-0.00019	-0.00017
	(!A1 * !B0 * B1 * !C1 * Y)	0.00026	0.00026	0.00027
	(!A1 * !B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00020	-0.00019	-0.00017
	(!A0 * A1 * !B1 * !C1 * Y)	0.00026	0.00026	0.00027
	(!A0 * A1 * !B1 * !C1 * Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00020	-0.00019	-0.00017
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	0.00026	0.00026	0.00027
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00020	-0.00019	-0.00017

Passive power(pJ) for C1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X1P4H7H	**(A1 * B0 * B1 * C0 * !Y)**	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C0 * !Y)	-0.00005	-0.00005	-0.00005
	(A1 * B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * C0 * !Y)	0.00039	0.00039	0.00039
	(A1 * B0 * B1 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C0 * !Y)	-0.00005	-0.00005	-0.00004
	(A1 * B0 * B1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * !C0 * !Y)	0.00036	0.00036	0.00036
	(A0 * A1 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * !Y)	-0.00005	-0.00005	-0.00004
	(A0 * A1 * !B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B1 * C0 * !Y)	0.00038	0.00039	0.00039
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * !B1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B1 * !C0 * !Y)	0.00036	0.00036	0.00036
	(A0 * A1 * !B0 * B1 * C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C0 * !Y)	-0.00005	-0.00005	-0.00004
	(A0 * A1 * !B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * B1 * C0 * !Y)	0.00039	0.00039	0.00039
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00001	0.00002	0.00003
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00035	0.00036	0.00036
	(!A1 * B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * C0 * !Y)	-0.00004	-0.00004	-0.00004
	(!A1 * B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * C0 * !Y)	0.00039	0.00039	0.00039
	(!A1 * B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !C0 * !Y)	-0.00004	-0.00004	-0.00004
	(!A1 * B0 * B1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * B1 * !C0 * !Y)	0.00035	0.00036	0.00036
	(!A1 * !B1 * !C0 * Y)	-0.00036	-0.00035	-0.00035
	(!A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C0 * Y)	0.00004	0.00004	0.00004
	(!A1 * !B1 * !C0 * Y)	0.00005	0.00005	0.00005
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00036	-0.00035	-0.00035
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C0 * Y)	0.00004	0.00004	0.00004
	(!A1 * !B0 * B1 * !C0 * Y)	0.00005	0.00005	0.00005
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00036	-0.00035	-0.00035
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C0 * Y)	0.00004	0.00004	0.00004
	(!A0 * A1 * !B1 * !C0 * Y)	0.00005	0.00005	0.00005
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00036	-0.00035	-0.00035
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	0.00004	0.00004	0.00004
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	0.00005	0.00005	0.00005

Passive power(pJ) for C1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

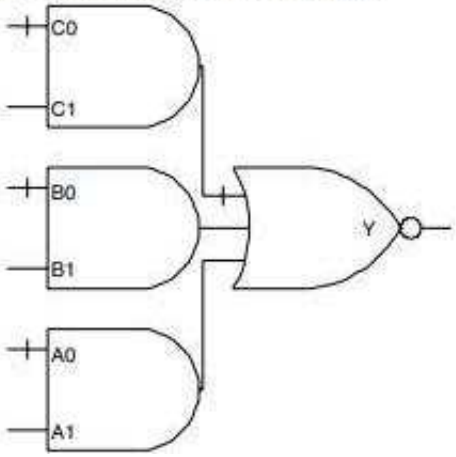
AOI222X1P4H7H	**(A1 * B0 * B1 * C0 * !Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C0 * !Y)	0.00005	0.00005	0.00005
	(A1 * B0 * B1 * C0 * !Y)	-0.00001	-0.00001	0.00000
	(A1 * B0 * B1 * C0 * !Y)	-0.00039	-0.00039	-0.00039
	(A1 * B0 * B1 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C0 * !Y)	0.00004	0.00005	0.00005
	(A1 * B0 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * B1 * !C0 * !Y)	-0.00036	-0.00035	-0.00033
	(A0 * A1 * !B1 * C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B1 * C0 * !Y)	-0.00039	-0.00039	-0.00038
	(A0 * A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00036	-0.00034	-0.00033
	(A0 * A1 * !B0 * B1 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C0 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * !B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * B1 * C0 * !Y)	-0.00039	-0.00039	-0.00038
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00004	0.00004	0.00005
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00003	-0.00002	-0.00001
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00036	-0.00035	-0.00033
	(!A1 * B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * C0 * !Y)	0.00005	0.00005	0.00005
	(!A1 * B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * C0 * !Y)	-0.00039	-0.00039	-0.00038
	(!A1 * B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C0 * !Y)	0.00004	0.00004	0.00004
	(!A1 * B0 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * B1 * !C0 * !Y)	-0.00036	-0.00034	-0.00033
	(!A1 * !B1 * !C0 * Y)	0.00035	0.00036	0.00036
	(!A1 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C0 * Y)	-0.00004	-0.00003	-0.00003
	(!A1 * !B1 * !C0 * Y)	-0.00005	-0.00005	-0.00004
	(!A1 * !B0 * B1 * !C0 * Y)	0.00035	0.00036	0.00036
	(!A1 * !B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00004	-0.00003	-0.00003
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00005	-0.00005	-0.00004
	(!A0 * A1 * !B1 * !C0 * Y)	0.00035	0.00035	0.00036
	(!A0 * A1 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00004	-0.00003	-0.00003
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00005	-0.00005	-0.00004
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	0.00035	0.00036	0.00036
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00004	-0.00003	-0.00003
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00005	-0.00005	-0.00004

AOI222X2H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI222 cell provides the logical inverted OR of three AND groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT						OUTPUT
A0	A1	B0	B1	C0	C1	Y
0	x	0	x	0	x	1
0	x	0	x	1	0	1
0	x	x	x	1	1	0
0	x	1	0	0	x	1
0	x	1	0	1	0	1
x	x	1	1	x	x	0
1	0	0	x	0	x	1
1	0	0	x	1	0	1
1	0	x	x	1	1	0
1	0	1	0	0	x	1
1	0	1	0	1	0	1
1	1	x	x	x	x	0

Footprint

Cell Name	Area
AOI222X2H7H	3.64000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	A1	B0	B1	C0	C1	Y
AOI222X2H7H	0.00108	0.00114	0.00108	0.00114	0.00109	0.00119	0.01680

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI222X2H7H	0.00000	0.03369	0.08162

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI222X2H7H	A0->Y (FR)	0.12148	0.29739	0.76597
	A1->Y (FR)	0.11346	0.28796	0.75583
	B0->Y (FR)	0.11189	0.28790	0.77395
	B1->Y (FR)	0.10378	0.27847	0.76464
	C0->Y (FR)	0.08487	0.25390	0.72972
	C1->Y (FR)	0.07912	0.24623	0.72350

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI222X2H7H	A0->Y (RF)	0.04935	0.16396	0.50120
	A1->Y (RF)	0.04663	0.15747	0.49651
	B0->Y (RF)	0.04305	0.15393	0.48985
	B1->Y (RF)	0.04026	0.14679	0.48453
	C0->Y (RF)	0.03291	0.13900	0.47490
	C1->Y (RF)	0.03030	0.13135	0.47010

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI222X2H7H	A0	0.00321	0.00324	0.00325
	A0	-0.00042	-0.00040	-0.00040
	A0	0.00035	0.00035	0.00035
	A0	0.00000	0.00003	0.00005
	A1	0.00299	0.00304	0.00307
	A1	-0.00040	-0.00040	-0.00039
	A1	0.00028	0.00028	0.00028
	A1	0.00002	0.00006	0.00010
	B0	0.00257	0.00261	0.00263
	B0	-0.00027	-0.00026	-0.00023
	B0	0.00035	0.00035	0.00035
	B0	-0.00004	-0.00001	0.00001
	B1	0.00238	0.00242	0.00246
	B1	-0.00027	-0.00026	-0.00023
	B1	0.00028	0.00028	0.00028
	B1	-0.00003	0.00002	0.00006
	C0	0.00187	0.00194	0.00198
	C0	-0.00010	-0.00010	-0.00009
	C0	0.00035	0.00035	0.00035
	C0	-0.00012	-0.00009	-0.00005
	C1	0.00175	0.00180	0.00185
	C1	-0.00010	-0.00010	-0.00002
	C1	0.00028	0.00028	0.00028
	C1	-0.00012	-0.00007	-0.00002

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI222X2H7H	A0	-0.00016	-0.00013	-0.00011
	A0	0.00042	0.00043	0.00043
	A0	-0.00021	-0.00021	-0.00021
	A0	0.00285	0.00291	0.00294
	A1	-0.00017	-0.00014	-0.00011
	A1	0.00042	0.00043	0.00043
	A1	-0.00014	-0.00014	-0.00013
	A1	0.00255	0.00262	0.00267
	B0	-0.00015	-0.00011	-0.00007
	B0	0.00024	0.00026	0.00029
	B0	-0.00021	-0.00021	-0.00021
	B0	0.00245	0.00250	0.00253
	B1	-0.00017	-0.00013	-0.00009
	B1	0.00026	0.00027	0.00029
	B1	-0.00014	-0.00014	-0.00013
	B1	0.00215	0.00222	0.00226
	C0	-0.00016	-0.00011	-0.00007
	C0	0.00010	0.00010	0.00011
	C0	-0.00021	-0.00021	-0.00021
	C0	0.00199	0.00204	0.00207
	C1	-0.00022	-0.00016	-0.00005
	C1	0.00009	0.00010	0.00012
	C1	-0.00014	-0.00013	-0.00013
	C1	0.00175	0.00179	0.00184

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X2H7H	**(A1 * B0 * B1 * C0 * C1 * !Y)**	-0.00018	-0.00015	-0.00012
	(A1 * B0 * B1 * C0 * C1 * !Y)	-0.00004	-0.00004	-0.00004
	(A1 * B0 * B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * C0 * C1 * !Y)	0.00031	0.00031	0.00032
	(A1 * B0 * B1 * !C1 * !Y)	-0.00018	-0.00015	-0.00012
	(A1 * B0 * B1 * !C1 * !Y)	-0.00004	-0.00004	-0.00004
	(A1 * B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !C1 * !Y)	0.00031	0.00031	0.00031
	(A1 * B0 * B1 * !C0 * C1 * !Y)	-0.00018	-0.00015	-0.00012
	(A1 * B0 * B1 * !C0 * C1 * !Y)	-0.00004	-0.00004	-0.00004
	(A1 * B0 * B1 * !C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * B1 * !C0 * C1 * !Y)	0.00031	0.00031	0.00032
	(A1 * !B1 * C0 * C1 * !Y)	-0.00017	-0.00014	-0.00011
	(A1 * !B1 * C0 * C1 * !Y)	-0.00005	-0.00004	-0.00003
	(A1 * !B1 * C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * !B1 * C0 * C1 * !Y)	0.00031	0.00031	0.00032
	(A1 * !B0 * B1 * C0 * C1 * !Y)	-0.00017	-0.00014	-0.00011
	(A1 * !B0 * B1 * C0 * C1 * !Y)	-0.00005	-0.00005	-0.00004
	(A1 * !B0 * B1 * C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * B1 * C0 * C1 * !Y)	0.00031	0.00031	0.00032
	(!A1 * B0 * B1 * !Y)	-0.00026	-0.00026	-0.00026
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00002	-0.00001
	(!A1 * B0 * B1 * !Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * B1 * !Y)	0.00026	0.00026	0.00026
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	-0.00026	-0.00026	-0.00026
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	-0.00002	-0.00001	-0.00000
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	0.00002	0.00002	0.00003
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	0.00026	0.00026	0.00027
	(!A1 * !B1 * !C1 * Y)	-0.00026	-0.00026	-0.00026
	(!A1 * !B1 * !C1 * Y)	-0.00002	-0.00001	-0.00001
	(!A1 * !B1 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B1 * !C1 * Y)	0.00027	0.00027	0.00027
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00026	-0.00026	-0.00026
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00002	-0.00001	-0.00001
	(!A1 * !B1 * !C0 * C1 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B1 * !C0 * C1 * Y)	0.00027	0.00027	0.00027
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00026	-0.00026	-0.00026
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00002	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * B1 * !C1 * Y)	0.00027	0.00027	0.00027
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	-0.00026	-0.00026	-0.00026
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	-0.00002	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	0.00027	0.00027	0.00027

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X2H7H	**(A1 * B0 * B1 * C0 * C1 * !Y)**	0.00018	0.00018	0.00018
	(A1 * B0 * B1 * C0 * C1 * !Y)	0.00004	0.00004	0.00004
	(A1 * B0 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * C0 * C1 * !Y)	-0.00031	-0.00031	-0.00031
	(A1 * B0 * B1 * !C1 * !Y)	0.00018	0.00018	0.00018
	(A1 * B0 * B1 * !C1 * !Y)	0.00004	0.00004	0.00004
	(A1 * B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !C1 * !Y)	-0.00031	-0.00031	-0.00031
	(A1 * B0 * B1 * !C0 * C1 * !Y)	0.00018	0.00018	0.00018
	(A1 * B0 * B1 * !C0 * C1 * !Y)	0.00004	0.00004	0.00004
	(A1 * B0 * B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * B1 * !C0 * C1 * !Y)	-0.00031	-0.00031	-0.00031
	(A1 * !B1 * C0 * C1 * !Y)	0.00017	0.00017	0.00017
	(A1 * !B1 * C0 * C1 * !Y)	0.00003	0.00004	0.00005
	(A1 * !B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B1 * C0 * C1 * !Y)	-0.00031	-0.00031	-0.00031
	(A1 * !B0 * B1 * C0 * C1 * !Y)	0.00017	0.00017	0.00017
	(A1 * !B0 * B1 * C0 * C1 * !Y)	0.00004	0.00005	0.00005
	(A1 * !B0 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * B1 * C0 * C1 * !Y)	-0.00031	-0.00031	-0.00031
	(!A1 * B0 * B1 * !Y)	0.00026	0.00026	0.00026
	(!A1 * B0 * B1 * !Y)	0.00001	0.00002	0.00002
	(!A1 * B0 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * B1 * !Y)	-0.00026	-0.00025	-0.00024
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	0.00026	0.00026	0.00026
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	0.00001	0.00002	0.00002
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	-0.00003	-0.00002	-0.00002
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	-0.00026	-0.00025	-0.00024
	(!A1 * !B1 * !C1 * Y)	0.00026	0.00026	0.00027
	(!A1 * !B1 * !C1 * Y)	0.00001	0.00002	0.00002
	(!A1 * !B1 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B1 * !C1 * Y)	-0.00026	-0.00025	-0.00023
	(!A1 * !B1 * !C0 * C1 * Y)	0.00026	0.00026	0.00027
	(!A1 * !B1 * !C0 * C1 * Y)	0.00001	0.00002	0.00002
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00026	-0.00025	-0.00023
	(!A1 * !B0 * B1 * !C1 * Y)	0.00026	0.00026	0.00027
	(!A1 * !B0 * B1 * !C1 * Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00026	-0.00025	-0.00023
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	0.00026	0.00026	0.00027
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	-0.00026	-0.00025	-0.00023

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X2H7H	**(A0 * B0 * B1 * C0 * C1 * !Y)**	-0.00018	-0.00015	-0.00011
	(A0 * B0 * B1 * C0 * C1 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * B0 * B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * C0 * C1 * !Y)	0.00030	0.00030	0.00030
	(A0 * B0 * B1 * !C1 * !Y)	-0.00018	-0.00015	-0.00011
	(A0 * B0 * B1 * !C1 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * !C1 * !Y)	0.00030	0.00030	0.00030
	(A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00018	-0.00015	-0.00012
	(A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * B0 * B1 * !C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * !C0 * C1 * !Y)	0.00030	0.00030	0.00031
	(A0 * !B1 * C0 * C1 * !Y)	-0.00017	-0.00014	-0.00011
	(A0 * !B1 * C0 * C1 * !Y)	-0.00005	-0.00004	-0.00004
	(A0 * !B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B1 * C0 * C1 * !Y)	0.00030	0.00030	0.00031
	(A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00017	-0.00014	-0.00011
	(A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * !B0 * B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * B1 * C0 * C1 * !Y)	0.00030	0.00030	0.00030
	(!A0 * B0 * B1 * C0 * C1 * !Y)	-0.00025	-0.00025	-0.00025
	(!A0 * B0 * B1 * C0 * C1 * !Y)	-0.00001	-0.00002	-0.00001
	(!A0 * B0 * B1 * C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * B0 * B1 * C0 * C1 * !Y)	0.00025	0.00025	0.00025
	(!A0 * B0 * B1 * !C1 * !Y)	-0.00025	-0.00025	-0.00025
	(!A0 * B0 * B1 * !C1 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * B0 * B1 * !C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * B0 * B1 * !C1 * !Y)	0.00025	0.00025	0.00025
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00025	-0.00025	-0.00025
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	0.00002	0.00002	0.00003
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	0.00025	0.00025	0.00025
	(!A0 * !B1 * C0 * C1 * !Y)	-0.00025	-0.00025	-0.00025
	(!A0 * !B1 * C0 * C1 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !B1 * C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !B1 * C0 * C1 * !Y)	0.00025	0.00025	0.00025
	(!A0 * !B1 * !C1 * Y)	-0.00035	-0.00034	-0.00034
	(!A0 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * !C1 * Y)	0.00004	0.00004	0.00004
	(!A0 * !B1 * !C1 * Y)	0.00006	0.00006	0.00006
	(!A0 * !B1 * !C0 * C1 * Y)	-0.00035	-0.00035	-0.00034
	(!A0 * !B1 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * !C0 * C1 * Y)	0.00004	0.00005	0.00004
	(!A0 * !B1 * !C0 * C1 * Y)	0.00006	0.00006	0.00006
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00025	-0.00025	-0.00025
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	0.00025	0.00025	0.00025
	(!A0 * !B0 * B1 * !C1 * Y)	-0.00035	-0.00034	-0.00034
	(!A0 * !B0 * B1 * !C1 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !B0 * B1 * !C1 * Y)	0.00004	0.00004	0.00004
	(!A0 * !B0 * B1 * !C1 * Y)	0.00006	0.00006	0.00006
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	-0.00035	-0.00035	-0.00034
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	0.00004	0.00005	0.00004
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X2H7H	**(A0 * B0 * B1 * C0 * C1 * !Y)**	0.00017	0.00018	0.00018
	(A0 * B0 * B1 * C0 * C1 * !Y)	0.00004	0.00004	0.00004
	(A0 * B0 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * C0 * C1 * !Y)	-0.00030	-0.00030	-0.00030
	(A0 * B0 * B1 * !C1 * !Y)	0.00017	0.00018	0.00018
	(A0 * B0 * B1 * !C1 * !Y)	0.00004	0.00004	0.00004
	(A0 * B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * !C1 * !Y)	-0.00030	-0.00030	-0.00030
	(A0 * B0 * B1 * !C0 * C1 * !Y)	0.00018	0.00018	0.00018
	(A0 * B0 * B1 * !C0 * C1 * !Y)	0.00004	0.00004	0.00004
	(A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00030	-0.00030	-0.00030
	(A0 * !B1 * C0 * C1 * !Y)	0.00017	0.00017	0.00017
	(A0 * !B1 * C0 * C1 * !Y)	0.00004	0.00004	0.00005
	(A0 * !B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B1 * C0 * C1 * !Y)	-0.00030	-0.00030	-0.00030
	(A0 * !B0 * B1 * C0 * C1 * !Y)	0.00017	0.00017	0.00017
	(A0 * !B0 * B1 * C0 * C1 * !Y)	0.00004	0.00004	0.00004
	(A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00030	-0.00030	-0.00030
	(!A0 * B0 * B1 * C0 * C1 * !Y)	0.00025	0.00025	0.00025
	(!A0 * B0 * B1 * C0 * C1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * B0 * B1 * C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * B0 * B1 * C0 * C1 * !Y)	-0.00025	-0.00024	-0.00023
	(!A0 * B0 * B1 * !C1 * !Y)	0.00025	0.00025	0.00025
	(!A0 * B0 * B1 * !C1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * B0 * B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * B0 * B1 * !C1 * !Y)	-0.00025	-0.00024	-0.00022
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	0.00025	0.00025	0.00025
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00025	-0.00024	-0.00023
	(!A0 * !B1 * C0 * C1 * !Y)	0.00025	0.00025	0.00025
	(!A0 * !B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !B1 * C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B1 * C0 * C1 * !Y)	-0.00025	-0.00024	-0.00023
	(!A0 * !B1 * !C1 * Y)	0.00034	0.00035	0.00035
	(!A0 * !B1 * !C1 * Y)	0.00001	0.00002	0.00002
	(!A0 * !B1 * !C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !B1 * !C1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !B1 * !C0 * C1 * Y)	0.00034	0.00035	0.00035
	(!A0 * !B1 * !C0 * C1 * Y)	0.00001	0.00002	0.00002
	(!A0 * !B1 * !C0 * C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !B1 * !C0 * C1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	0.00025	0.00025	0.00025
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00025	-0.00024	-0.00022
	(!A0 * !B0 * B1 * !C1 * Y)	0.00034	0.00035	0.00035
	(!A0 * !B0 * B1 * !C1 * Y)	0.00001	0.00002	0.00002
	(!A0 * !B0 * B1 * !C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !B0 * B1 * !C1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	0.00034	0.00035	0.00035
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	0.00001	0.00002	0.00002
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X2H7H	**(A0 * A1 * B1 * C0 * C1 * !Y)**	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * C0 * C1 * !Y)	-0.00010	-0.00010	-0.00010
	(A0 * A1 * B1 * C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B1 * C0 * C1 * !Y)	0.00032	0.00032	0.00032
	(A0 * A1 * B1 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C1 * !Y)	-0.00008	-0.00008	-0.00007
	(A0 * A1 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B1 * !C1 * !Y)	0.00032	0.00032	0.00032
	(A0 * A1 * B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * !Y)	-0.00008	-0.00008	-0.00008
	(A0 * A1 * B1 * !C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B1 * !C0 * C1 * !Y)	0.00032	0.00032	0.00032
	(A0 * A1 * !B1 * C0 * C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * C1 * !Y)	-0.00009	-0.00009	-0.00009
	(A0 * A1 * !B1 * C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B1 * C0 * C1 * !Y)	0.00028	0.00028	0.00028
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00007	-0.00007	-0.00007
	(A0 * A1 * !B1 * !C1 * !Y)	0.00002	0.00002	0.00003
	(A0 * A1 * !B1 * !C1 * !Y)	0.00028	0.00028	0.00028
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00007	-0.00007	-0.00007
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00002	0.00003	0.00003
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00028	0.00028	0.00028
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	-0.00025	-0.00025	-0.00025
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	0.00002	0.00002	0.00003
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	0.00025	0.00025	0.00026
	(!A1 * B1 * C0 * C1 * !Y)	-0.00019	-0.00017	-0.00014
	(!A1 * B1 * C0 * C1 * !Y)	-0.00004	-0.00004	-0.00003
	(!A1 * B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B1 * C0 * C1 * !Y)	0.00030	0.00030	0.00031
	(!A1 * !B1 * !C1 * Y)	-0.00028	-0.00028	-0.00028
	(!A1 * !B1 * !C1 * Y)	-0.00002	-0.00001	-0.00001
	(!A1 * !B1 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B1 * !C1 * Y)	0.00022	0.00023	0.00023
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00028	-0.00028	-0.00028
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00002	-0.00001	-0.00001
	(!A1 * !B1 * !C0 * C1 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B1 * !C0 * C1 * Y)	0.00022	0.00023	0.00023
	(!A0 * A1 * B1 * C0 * C1 * !Y)	-0.00019	-0.00017	-0.00014
	(!A0 * A1 * B1 * C0 * C1 * !Y)	-0.00004	-0.00004	-0.00003
	(!A0 * A1 * B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B1 * C0 * C1 * !Y)	0.00030	0.00030	0.00031
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00028	-0.00028	-0.00028
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B1 * !C1 * Y)	0.00023	0.00023	0.00023
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00028	-0.00028	-0.00028
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	0.00022	0.00023	0.00023

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X2H7H	**(A0 * A1 * B1 * C0 * C1 * !Y)**	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * C1 * !Y)	0.00010	0.00010	0.00010
	(A0 * A1 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * B1 * C0 * C1 * !Y)	-0.00032	-0.00032	-0.00032
	(A0 * A1 * B1 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * !C1 * !Y)	0.00008	0.00008	0.00008
	(A0 * A1 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B1 * !C1 * !Y)	-0.00032	-0.00032	-0.00032
	(A0 * A1 * B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * !Y)	0.00008	0.00008	0.00008
	(A0 * A1 * B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * B1 * !C0 * C1 * !Y)	-0.00032	-0.00032	-0.00032
	(A0 * A1 * !B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * C1 * !Y)	0.00009	0.00009	0.00009
	(A0 * A1 * !B1 * C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B1 * C0 * C1 * !Y)	-0.00028	-0.00027	-0.00026
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * !Y)	0.00007	0.00007	0.00007
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00003	-0.00002	-0.00002
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00028	-0.00027	-0.00026
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00007	0.00007	0.00007
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00003	-0.00002	-0.00002
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00028	-0.00027	-0.00026
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	0.00025	0.00025	0.00025
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	0.00001	0.00002	0.00002
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	-0.00003	-0.00002	-0.00002
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	-0.00025	-0.00024	-0.00023
	(!A1 * B1 * C0 * C1 * !Y)	0.00019	0.00019	0.00019
	(!A1 * B1 * C0 * C1 * !Y)	0.00003	0.00004	0.00004
	(!A1 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B1 * C0 * C1 * !Y)	-0.00030	-0.00030	-0.00030
	(!A1 * !B1 * !C1 * Y)	0.00028	0.00029	0.00029
	(!A1 * !B1 * !C1 * Y)	0.00001	0.00001	0.00002
	(!A1 * !B1 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B1 * !C1 * Y)	-0.00022	-0.00021	-0.00019
	(!A1 * !B1 * !C0 * C1 * Y)	0.00028	0.00029	0.00029
	(!A1 * !B1 * !C0 * C1 * Y)	0.00001	0.00001	0.00002
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00022	-0.00021	-0.00019
	(!A0 * A1 * B1 * C0 * C1 * !Y)	0.00019	0.00019	0.00019
	(!A0 * A1 * B1 * C0 * C1 * !Y)	0.00004	0.00004	0.00004
	(!A0 * A1 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B1 * C0 * C1 * !Y)	-0.00030	-0.00030	-0.00030
	(!A0 * A1 * !B1 * !C1 * Y)	0.00028	0.00029	0.00029
	(!A0 * A1 * !B1 * !C1 * Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00022	-0.00021	-0.00019
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	0.00028	0.00029	0.00029
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00022	-0.00021	-0.00019

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X2H7H	**(A0 * A1 * B0 * C0 * C1 * !Y)**	-0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * C1 * !Y)	-0.00011	-0.00010	-0.00010
	(A0 * A1 * B0 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * C0 * C1 * !Y)	0.00031	0.00031	0.00031
	(A0 * A1 * B0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B0 * !C1 * !Y)	-0.00008	-0.00008	-0.00008
	(A0 * A1 * B0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * !C1 * !Y)	0.00031	0.00031	0.00031
	(A0 * A1 * B0 * !C0 * C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * C1 * !Y)	-0.00008	-0.00008	-0.00008
	(A0 * A1 * B0 * !C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * !C0 * C1 * !Y)	0.00031	0.00031	0.00031
	(A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00010	-0.00010	-0.00010
	(A0 * A1 * !B0 * C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * C0 * C1 * !Y)	0.00027	0.00027	0.00027
	(A0 * A1 * !B0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C1 * !Y)	-0.00008	-0.00008	-0.00008
	(A0 * A1 * !B0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * !C1 * !Y)	0.00027	0.00027	0.00027
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00008	-0.00008	-0.00008
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00002	0.00002	0.00003
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00027	0.00027	0.00027
	(!A1 * B0 * C0 * C1 * !Y)	-0.00021	-0.00019	-0.00016
	(!A1 * B0 * C0 * C1 * !Y)	-0.00004	-0.00004	-0.00003
	(!A1 * B0 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * C0 * C1 * !Y)	0.00029	0.00029	0.00029
	(!A1 * !B0 * C0 * C1 * !Y)	-0.00027	-0.00027	-0.00027
	(!A1 * !B0 * C0 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * C0 * C1 * !Y)	0.00002	0.00002	0.00003
	(!A1 * !B0 * C0 * C1 * !Y)	0.00024	0.00024	0.00024
	(!A1 * !B0 * !C1 * Y)	-0.00039	-0.00039	-0.00038
	(!A1 * !B0 * !C1 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !C1 * Y)	0.00004	0.00004	0.00004
	(!A1 * !B0 * !C1 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * !C0 * C1 * Y)	-0.00039	-0.00039	-0.00038
	(!A1 * !B0 * !C0 * C1 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !C0 * C1 * Y)	0.00004	0.00004	0.00004
	(!A1 * !B0 * !C0 * C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * B0 * C0 * C1 * !Y)	-0.00021	-0.00019	-0.00015
	(!A0 * A1 * B0 * C0 * C1 * !Y)	-0.00004	-0.00004	-0.00003
	(!A0 * A1 * B0 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * C0 * C1 * !Y)	0.00029	0.00029	0.00029
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00027	-0.00027	-0.00027
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	0.00002	0.00003	0.00003
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	0.00024	0.00024	0.00024
	(!A0 * A1 * !B0 * !C1 * Y)	-0.00039	-0.00039	-0.00039
	(!A0 * A1 * !B0 * !C1 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * !B0 * !C1 * Y)	0.00004	0.00004	0.00005
	(!A0 * A1 * !B0 * !C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00039	-0.00039	-0.00039
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	0.00004	0.00004	0.00004
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	0.00003	0.00003	0.00003

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X2H7H	**(A0 * A1 * B0 * C0 * C1 * !Y)**	-0.00000	-0.00000	0.00000
	(A0 * A1 * B0 * C0 * C1 * !Y)	0.00010	0.00010	0.00011
	(A0 * A1 * B0 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B0 * C0 * C1 * !Y)	-0.00031	-0.00031	-0.00031
	(A0 * A1 * B0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C1 * !Y)	0.00008	0.00009	0.00009
	(A0 * A1 * B0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B0 * !C1 * !Y)	-0.00031	-0.00031	-0.00031
	(A0 * A1 * B0 * !C0 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B0 * !C0 * C1 * !Y)	0.00008	0.00009	0.00009
	(A0 * A1 * B0 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B0 * !C0 * C1 * !Y)	-0.00031	-0.00031	-0.00031
	(A0 * A1 * !B0 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * C0 * C1 * !Y)	0.00010	0.00010	0.00010
	(A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00027	-0.00026	-0.00024
	(A0 * A1 * !B0 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C1 * !Y)	0.00008	0.00008	0.00008
	(A0 * A1 * !B0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * !C1 * !Y)	-0.00027	-0.00026	-0.00024
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00008	0.00008	0.00008
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00003	-0.00002	-0.00002
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00027	-0.00026	-0.00024
	(!A1 * B0 * C0 * C1 * !Y)	0.00021	0.00021	0.00021
	(!A1 * B0 * C0 * C1 * !Y)	0.00004	0.00004	0.00004
	(!A1 * B0 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * C0 * C1 * !Y)	-0.00029	-0.00029	-0.00028
	(!A1 * !B0 * C0 * C1 * !Y)	0.00027	0.00027	0.00027
	(!A1 * !B0 * C0 * C1 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * C0 * C1 * !Y)	-0.00003	-0.00002	-0.00002
	(!A1 * !B0 * C0 * C1 * !Y)	-0.00024	-0.00023	-0.00021
	(!A1 * !B0 * !C1 * Y)	0.00039	0.00039	0.00039
	(!A1 * !B0 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * !B0 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * !C0 * C1 * Y)	0.00039	0.00039	0.00039
	(!A1 * !B0 * !C0 * C1 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !C0 * C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * !B0 * !C0 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * B0 * C0 * C1 * !Y)	0.00021	0.00021	0.00021
	(!A0 * A1 * B0 * C0 * C1 * !Y)	0.00003	0.00004	0.00004
	(!A0 * A1 * B0 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * C0 * C1 * !Y)	-0.00029	-0.00028	-0.00028
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	0.00027	0.00027	0.00027
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00024	-0.00023	-0.00021
	(!A0 * A1 * !B0 * !C1 * Y)	0.00039	0.00039	0.00039
	(!A0 * A1 * !B0 * !C1 * Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * !B0 * !C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A1 * !B0 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	0.00039	0.00039	0.00039
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00003	-0.00003	-0.00003

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X2H7H	**(A1 * B0 * B1 * C1 * !Y)**	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C1 * !Y)	-0.00005	-0.00005	-0.00005
	(A1 * B0 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * C1 * !Y)	0.00039	0.00039	0.00039
	(A1 * B0 * B1 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * !C1 * !Y)	-0.00005	-0.00005	-0.00005
	(A1 * B0 * B1 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * !C1 * !Y)	0.00035	0.00035	0.00035
	(A0 * A1 * !B1 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B1 * C1 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * !B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * C1 * !Y)	0.00039	0.00039	0.00039
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * !B1 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B1 * !C1 * !Y)	0.00035	0.00035	0.00036
	(A0 * A1 * !B0 * B1 * C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C1 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * !B0 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * B1 * C1 * !Y)	0.00039	0.00039	0.00039
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00002	0.00003	0.00003
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00035	0.00035	0.00035
	(!A1 * B0 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * C1 * !Y)	-0.00005	-0.00005	-0.00005
	(!A1 * B0 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * C1 * !Y)	0.00039	0.00039	0.00039
	(!A1 * B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !C1 * !Y)	-0.00005	-0.00005	-0.00005
	(!A1 * B0 * B1 * !C1 * !Y)	0.00002	0.00002	0.00003
	(!A1 * B0 * B1 * !C1 * !Y)	0.00035	0.00035	0.00035
	(!A1 * !B1 * !C1 * Y)	-0.00028	-0.00027	-0.00027
	(!A1 * !B1 * !C1 * Y)	-0.00002	-0.00001	-0.00001
	(!A1 * !B1 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B1 * !C1 * Y)	0.00022	0.00022	0.00022
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00028	-0.00027	-0.00027
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * B1 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * B1 * !C1 * Y)	0.00022	0.00022	0.00022
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00028	-0.00027	-0.00027
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B1 * !C1 * Y)	0.00022	0.00022	0.00022
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00028	-0.00027	-0.00027
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	0.00022	0.00022	0.00022

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X2H7H	**(A1 * B0 * B1 * C1 * !Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C1 * !Y)	0.00005	0.00005	0.00005
	(A1 * B0 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * C1 * !Y)	-0.00039	-0.00039	-0.00038
	(A1 * B0 * B1 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C1 * !Y)	0.00005	0.00005	0.00005
	(A1 * B0 * B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * B1 * !C1 * !Y)	-0.00035	-0.00034	-0.00033
	(A0 * A1 * !B1 * C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C1 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * C1 * !Y)	-0.00039	-0.00039	-0.00038
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00036	-0.00034	-0.00033
	(A0 * A1 * !B0 * B1 * C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C1 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * !B0 * B1 * C1 * !Y)	-0.00001	-0.00001	0.00000
	(A0 * A1 * !B0 * B1 * C1 * !Y)	-0.00039	-0.00039	-0.00038
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00003	-0.00003	-0.00002
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00035	-0.00034	-0.00033
	(!A1 * B0 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * C1 * !Y)	0.00005	0.00005	0.00005
	(!A1 * B0 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * C1 * !Y)	-0.00039	-0.00039	-0.00038
	(!A1 * B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C1 * !Y)	0.00005	0.00005	0.00005
	(!A1 * B0 * B1 * !C1 * !Y)	-0.00003	-0.00002	-0.00002
	(!A1 * B0 * B1 * !C1 * !Y)	-0.00035	-0.00034	-0.00033
	(!A1 * !B1 * !C1 * Y)	0.00028	0.00028	0.00029
	(!A1 * !B1 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B1 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B1 * !C1 * Y)	-0.00022	-0.00020	-0.00019
	(!A1 * !B0 * B1 * !C1 * Y)	0.00027	0.00028	0.00029
	(!A1 * !B0 * B1 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00022	-0.00020	-0.00019
	(!A0 * A1 * !B1 * !C1 * Y)	0.00028	0.00028	0.00029
	(!A0 * A1 * !B1 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00022	-0.00020	-0.00019
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	0.00028	0.00028	0.00029
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00022	-0.00020	-0.00019

Passive power(pJ) for C1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X2H7H	**(A1 * B0 * B1 * C0 * !Y)**	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C0 * !Y)	-0.00006	-0.00006	-0.00006
	(A1 * B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * C0 * !Y)	0.00042	0.00042	0.00042
	(A1 * B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * !C0 * !Y)	-0.00006	-0.00006	-0.00006
	(A1 * B0 * B1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * !C0 * !Y)	0.00038	0.00038	0.00038
	(A0 * A1 * !B1 * C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * A1 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * C0 * !Y)	0.00041	0.00042	0.00042
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * A1 * !B1 * !C0 * !Y)	0.00002	0.00003	0.00003
	(A0 * A1 * !B1 * !C0 * !Y)	0.00038	0.00038	0.00038
	(A0 * A1 * !B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C0 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * A1 * !B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * B1 * C0 * !Y)	0.00041	0.00042	0.00042
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00038	0.00038	0.00038
	(!A1 * B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * C0 * !Y)	-0.00006	-0.00006	-0.00006
	(!A1 * B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * C0 * !Y)	0.00041	0.00042	0.00042
	(!A1 * B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !C0 * !Y)	-0.00006	-0.00006	-0.00006
	(!A1 * B0 * B1 * !C0 * !Y)	0.00002	0.00002	0.00003
	(!A1 * B0 * B1 * !C0 * !Y)	0.00038	0.00038	0.00038
	(!A1 * !B1 * !C0 * Y)	-0.00042	-0.00042	-0.00042
	(!A1 * !B1 * !C0 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B1 * !C0 * Y)	0.00004	0.00004	0.00005
	(!A1 * !B1 * !C0 * Y)	0.00004	0.00004	0.00004
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00042	-0.00042	-0.00042
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * B1 * !C0 * Y)	0.00004	0.00004	0.00005
	(!A1 * !B0 * B1 * !C0 * Y)	0.00004	0.00004	0.00004
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00042	-0.00042	-0.00042
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * !B1 * !C0 * Y)	0.00004	0.00004	0.00005
	(!A0 * A1 * !B1 * !C0 * Y)	0.00004	0.00004	0.00004
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00042	-0.00042	-0.00042
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	0.00004	0.00004	0.00005
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	0.00004	0.00004	0.00004

Passive power(pJ) for C1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

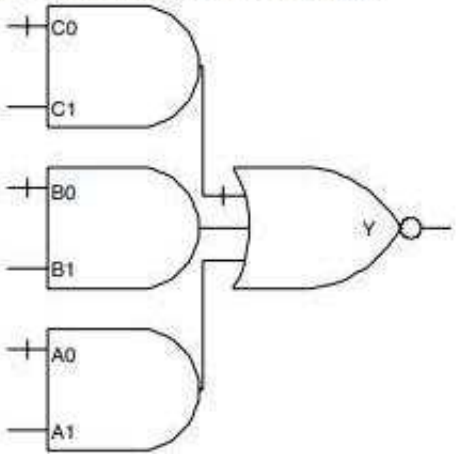
AOI222X2H7H	**(A1 * B0 * B1 * C0 * !Y)**	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C0 * !Y)	0.00007	0.00007	0.00007
	(A1 * B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * C0 * !Y)	-0.00042	-0.00042	-0.00041
	(A1 * B0 * B1 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C0 * !Y)	0.00006	0.00006	0.00006
	(A1 * B0 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * B1 * !C0 * !Y)	-0.00038	-0.00037	-0.00035
	(A0 * A1 * !B1 * C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * !Y)	0.00006	0.00006	0.00007
	(A0 * A1 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * C0 * !Y)	-0.00042	-0.00042	-0.00041
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * !Y)	0.00006	0.00006	0.00006
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00003	-0.00002	-0.00002
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00038	-0.00037	-0.00035
	(A0 * A1 * !B0 * B1 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C0 * !Y)	0.00006	0.00006	0.00006
	(A0 * A1 * !B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * B1 * C0 * !Y)	-0.00042	-0.00042	-0.00041
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00006	0.00006	0.00006
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00038	-0.00037	-0.00035
	(!A1 * B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * C0 * !Y)	0.00006	0.00006	0.00006
	(!A1 * B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * C0 * !Y)	-0.00042	-0.00042	-0.00041
	(!A1 * B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C0 * !Y)	0.00006	0.00006	0.00006
	(!A1 * B0 * B1 * !C0 * !Y)	-0.00003	-0.00002	-0.00002
	(!A1 * B0 * B1 * !C0 * !Y)	-0.00038	-0.00037	-0.00035
	(!A1 * !B1 * !C0 * Y)	0.00042	0.00042	0.00042
	(!A1 * !B1 * !C0 * Y)	0.00001	0.00002	0.00002
	(!A1 * !B1 * !C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * !B1 * !C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * !B0 * B1 * !C0 * Y)	0.00042	0.00042	0.00042
	(!A1 * !B0 * B1 * !C0 * Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A1 * !B1 * !C0 * Y)	0.00042	0.00042	0.00042
	(!A0 * A1 * !B1 * !C0 * Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	0.00042	0.00042	0.00042
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00004	-0.00004	-0.00004

AOI222X3H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI222 cell provides the logical inverted OR of three AND groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT						OUTPUT
A0	A1	B0	B1	C0	C1	Y
0	x	0	x	0	x	1
0	x	0	x	1	0	1
0	x	x	x	1	1	0
0	x	1	0	0	x	1
0	x	1	0	1	0	1
x	x	1	1	x	x	0
1	0	0	x	0	x	1
1	0	0	x	1	0	1
1	0	x	x	1	1	0
1	0	1	0	0	x	1
1	0	1	0	1	0	1
1	1	x	x	x	x	0

Footprint

Cell Name	Area
AOI222X3H7H	5.04000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	A1	B0	B1	C0	C1	Y
AOI222X3H7H	0.00187	0.00185	0.00176	0.00203	0.00187	0.00215	0.02648

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI222X3H7H	0.00000	0.04249	0.08349

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI222X3H7H	A0->Y (FR)	0.12095	0.29495	0.76013
	A1->Y (FR)	0.11309	0.28539	0.74967
	B0->Y (FR)	0.11095	0.28547	0.76826
	B1->Y (FR)	0.10412	0.27667	0.75865
	C0->Y (FR)	0.08562	0.25360	0.72687
	C1->Y (FR)	0.07991	0.24560	0.71888

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI222X3H7H	A0->Y (RF)	0.04908	0.16273	0.49774
	A1->Y (RF)	0.04622	0.15652	0.49522
	B0->Y (RF)	0.04251	0.15254	0.48582
	B1->Y (RF)	0.04022	0.14622	0.48386
	C0->Y (RF)	0.03320	0.13868	0.47204
	C1->Y (RF)	0.03142	0.13219	0.47023

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI222X3H7H	A0	0.00523	0.00528	0.00531
	A0	-0.00063	-0.00061	-0.00060
	A0	0.00053	0.00054	0.00054
	A0	-0.00001	0.00003	0.00007
	A1	0.00485	0.00494	0.00500
	A1	-0.00061	-0.00061	-0.00060
	A1	0.00042	0.00043	0.00043
	A1	0.00003	0.00012	0.00019
	B0	0.00427	0.00432	0.00436
	B0	-0.00040	-0.00039	-0.00021
	B0	0.00052	0.00054	0.00054
	B0	-0.00004	0.00001	0.00005
	B1	0.00400	0.00409	0.00415
	B1	-0.00045	-0.00039	-0.00031
	B1	0.00042	0.00043	0.00043
	B1	-0.00000	0.00008	0.00015
	C0	0.00318	0.00329	0.00335
	C0	-0.00015	-0.00015	-0.00010
	C0	0.00053	0.00053	0.00054
	C0	-0.00023	-0.00018	-0.00013
	C1	0.00294	0.00304	0.00314
	C1	-0.00016	-0.00015	-0.00005
	C1	0.00042	0.00042	0.00043
	C1	-0.00021	-0.00012	-0.00003

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI222X3H7H	A0	-0.00026	-0.00021	-0.00017
	A0	0.00064	0.00065	0.00065
	A0	-0.00032	-0.00032	-0.00031
	A0	0.00473	0.00481	0.00486
	A1	-0.00027	-0.00021	-0.00017
	A1	0.00064	0.00065	0.00065
	A1	-0.00021	-0.00021	-0.00020
	A1	0.00420	0.00430	0.00437
	B0	-0.00025	-0.00017	-0.00001
	B0	0.00030	0.00043	0.00212
	B0	-0.00032	-0.00032	-0.00031
	B0	0.00408	0.00415	0.00420
	B1	-0.00038	-0.00025	-0.00017
	B1	0.00039	0.00041	0.00051
	B1	-0.00021	-0.00020	-0.00020
	B1	0.00360	0.00370	0.00376
	C0	-0.00020	-0.00012	-0.00007
	C0	0.00014	0.00015	0.00017
	C0	-0.00032	-0.00032	-0.00031
	C0	0.00348	0.00355	0.00360
	C1	-0.00024	-0.00015	-0.00008
	C1	0.00005	0.00015	0.00017
	C1	-0.00021	-0.00020	-0.00020
	C1	0.00306	0.00314	0.00321

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X3H7H	**(A1 * B0 * B1 * C0 * C1 * !Y)**	-0.00028	-0.00024	-0.00018
	(A1 * B0 * B1 * C0 * C1 * !Y)	-0.00007	-0.00007	-0.00007
	(A1 * B0 * B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00002
	(A1 * B0 * B1 * C0 * C1 * !Y)	0.00056	0.00057	0.00057
	(A1 * B0 * B1 * !C1 * !Y)	-0.00028	-0.00024	-0.00018
	(A1 * B0 * B1 * !C1 * !Y)	-0.00007	-0.00007	-0.00007
	(A1 * B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !C1 * !Y)	0.00056	0.00057	0.00057
	(A1 * B0 * B1 * !C0 * C1 * !Y)	-0.00028	-0.00024	-0.00018
	(A1 * B0 * B1 * !C0 * C1 * !Y)	-0.00007	-0.00007	-0.00007
	(A1 * B0 * B1 * !C0 * C1 * !Y)	0.00001	0.00001	0.00002
	(A1 * B0 * B1 * !C0 * C1 * !Y)	0.00056	0.00057	0.00057
	(A1 * !B1 * C0 * C1 * !Y)	-0.00027	-0.00022	-0.00018
	(A1 * !B1 * C0 * C1 * !Y)	-0.00007	-0.00007	-0.00006
	(A1 * !B1 * C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * !B1 * C0 * C1 * !Y)	0.00057	0.00058	0.00059
	(A1 * !B0 * B1 * C0 * C1 * !Y)	-0.00027	-0.00022	-0.00017
	(A1 * !B0 * B1 * C0 * C1 * !Y)	-0.00008	-0.00007	-0.00007
	(A1 * !B0 * B1 * C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * B1 * C0 * C1 * !Y)	0.00057	0.00058	0.00059
	(!A1 * B0 * B1 * !Y)	-0.00040	-0.00040	-0.00040
	(!A1 * B0 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * B1 * !Y)	0.00004	0.00004	0.00004
	(!A1 * B0 * B1 * !Y)	0.00048	0.00049	0.00049
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	-0.00040	-0.00040	-0.00040
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	-0.00003	-0.00002	-0.00001
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	0.00004	0.00004	0.00004
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	0.00049	0.00049	0.00049
	(!A1 * !B1 * !C1 * Y)	-0.00043	-0.00042	-0.00042
	(!A1 * !B1 * !C1 * Y)	-0.00003	-0.00002	-0.00001
	(!A1 * !B1 * !C1 * Y)	0.00003	0.00003	0.00004
	(!A1 * !B1 * !C1 * Y)	0.00047	0.00048	0.00049
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00043	-0.00042	-0.00042
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00003	-0.00002	-0.00001
	(!A1 * !B1 * !C0 * C1 * Y)	0.00003	0.00003	0.00004
	(!A1 * !B1 * !C0 * C1 * Y)	0.00047	0.00048	0.00049
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00043	-0.00042	-0.00042
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * B1 * !C1 * Y)	0.00003	0.00003	0.00004
	(!A1 * !B0 * B1 * !C1 * Y)	0.00047	0.00048	0.00049
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	-0.00042	-0.00042	-0.00042
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	-0.00003	-0.00002	-0.00000
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	0.00003	0.00003	0.00004
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	0.00047	0.00048	0.00048

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X3H7H	**(A1 * B0 * B1 * C0 * C1 * !Y)**	0.00028	0.00028	0.00028
	(A1 * B0 * B1 * C0 * C1 * !Y)	0.00007	0.00007	0.00007
	(A1 * B0 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * C0 * C1 * !Y)	-0.00056	-0.00056	-0.00056
	(A1 * B0 * B1 * !C1 * !Y)	0.00028	0.00028	0.00028
	(A1 * B0 * B1 * !C1 * !Y)	0.00007	0.00007	0.00007
	(A1 * B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !C1 * !Y)	-0.00056	-0.00056	-0.00056
	(A1 * B0 * B1 * !C0 * C1 * !Y)	0.00028	0.00028	0.00028
	(A1 * B0 * B1 * !C0 * C1 * !Y)	0.00007	0.00007	0.00007
	(A1 * B0 * B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	0.00001
	(A1 * B0 * B1 * !C0 * C1 * !Y)	-0.00057	-0.00056	-0.00056
	(A1 * !B1 * C0 * C1 * !Y)	0.00027	0.00027	0.00027
	(A1 * !B1 * C0 * C1 * !Y)	0.00006	0.00007	0.00007
	(A1 * !B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B1 * C0 * C1 * !Y)	-0.00057	-0.00057	-0.00057
	(A1 * !B0 * B1 * C0 * C1 * !Y)	0.00027	0.00027	0.00027
	(A1 * !B0 * B1 * C0 * C1 * !Y)	0.00007	0.00007	0.00008
	(A1 * !B0 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * B1 * C0 * C1 * !Y)	-0.00057	-0.00057	-0.00056
	(!A1 * B0 * B1 * !Y)	0.00040	0.00040	0.00040
	(!A1 * B0 * B1 * !Y)	0.00002	0.00003	0.00003
	(!A1 * B0 * B1 * !Y)	-0.00004	-0.00004	-0.00004
	(!A1 * B0 * B1 * !Y)	-0.00049	-0.00047	-0.00045
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	0.00040	0.00040	0.00040
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	0.00002	0.00002	0.00003
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	-0.00004	-0.00004	-0.00004
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	-0.00049	-0.00047	-0.00045
	(!A1 * !B1 * !C1 * Y)	0.00042	0.00043	0.00045
	(!A1 * !B1 * !C1 * Y)	0.00001	0.00002	0.00003
	(!A1 * !B1 * !C1 * Y)	-0.00004	-0.00003	-0.00003
	(!A1 * !B1 * !C1 * Y)	-0.00047	-0.00045	-0.00043
	(!A1 * !B1 * !C0 * C1 * Y)	0.00042	0.00043	0.00045
	(!A1 * !B1 * !C0 * C1 * Y)	0.00001	0.00002	0.00003
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00004	-0.00003	-0.00003
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00047	-0.00045	-0.00043
	(!A1 * !B0 * B1 * !C1 * Y)	0.00042	0.00043	0.00045
	(!A1 * !B0 * B1 * !C1 * Y)	0.00001	0.00002	0.00003
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00004	-0.00003	-0.00003
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00047	-0.00045	-0.00043
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	0.00042	0.00043	0.00045
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	0.00001	0.00002	0.00003
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	-0.00004	-0.00003	-0.00003
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	-0.00047	-0.00045	-0.00043

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X3H7H	**(A0 * B0 * B1 * C0 * C1 * !Y)**	-0.00026	-0.00022	-0.00018
	(A0 * B0 * B1 * C0 * C1 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * B0 * B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * C0 * C1 * !Y)	0.00054	0.00054	0.00054
	(A0 * B0 * B1 * !C1 * !Y)	-0.00026	-0.00022	-0.00017
	(A0 * B0 * B1 * !C1 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * !C1 * !Y)	0.00054	0.00054	0.00054
	(A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00026	-0.00022	-0.00018
	(A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * B0 * B1 * !C0 * C1 * !Y)	0.00001	0.00001	0.00002
	(A0 * B0 * B1 * !C0 * C1 * !Y)	0.00054	0.00054	0.00054
	(A0 * !B1 * C0 * C1 * !Y)	-0.00025	-0.00021	-0.00017
	(A0 * !B1 * C0 * C1 * !Y)	-0.00006	-0.00006	-0.00005
	(A0 * !B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B1 * C0 * C1 * !Y)	0.00054	0.00055	0.00055
	(A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00025	-0.00021	-0.00017
	(A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00007	-0.00006	-0.00005
	(A0 * !B0 * B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00002
	(A0 * !B0 * B1 * C0 * C1 * !Y)	0.00054	0.00055	0.00055
	(!A0 * B0 * B1 * C0 * C1 * !Y)	-0.00035	-0.00035	-0.00035
	(!A0 * B0 * B1 * C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * B0 * B1 * C0 * C1 * !Y)	0.00004	0.00004	0.00004
	(!A0 * B0 * B1 * C0 * C1 * !Y)	0.00046	0.00046	0.00047
	(!A0 * B0 * B1 * !C1 * !Y)	-0.00035	-0.00035	-0.00035
	(!A0 * B0 * B1 * !C1 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * B0 * B1 * !C1 * !Y)	0.00003	0.00004	0.00004
	(!A0 * B0 * B1 * !C1 * !Y)	0.00046	0.00046	0.00046
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00035	-0.00035	-0.00035
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	0.00003	0.00004	0.00005
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	0.00046	0.00046	0.00046
	(!A0 * !B1 * C0 * C1 * !Y)	-0.00035	-0.00035	-0.00035
	(!A0 * !B1 * C0 * C1 * !Y)	-0.00003	-0.00002	-0.00001
	(!A0 * !B1 * C0 * C1 * !Y)	0.00003	0.00004	0.00004
	(!A0 * !B1 * C0 * C1 * !Y)	0.00046	0.00046	0.00047
	(!A0 * !B1 * !C1 * Y)	-0.00056	-0.00056	-0.00055
	(!A0 * !B1 * !C1 * Y)	-0.00003	-0.00002	-0.00002
	(!A0 * !B1 * !C1 * Y)	0.00007	0.00007	0.00007
	(!A0 * !B1 * !C1 * Y)	0.00010	0.00010	0.00011
	(!A0 * !B1 * !C0 * C1 * Y)	-0.00056	-0.00056	-0.00055
	(!A0 * !B1 * !C0 * C1 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !B1 * !C0 * C1 * Y)	0.00007	0.00007	0.00007
	(!A0 * !B1 * !C0 * C1 * Y)	0.00010	0.00010	0.00011
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00035	-0.00035	-0.00035
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	0.00003	0.00004	0.00005
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	0.00046	0.00046	0.00047
	(!A0 * !B0 * B1 * !C1 * Y)	-0.00056	-0.00056	-0.00055
	(!A0 * !B0 * B1 * !C1 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !B0 * B1 * !C1 * Y)	0.00007	0.00007	0.00007
	(!A0 * !B0 * B1 * !C1 * Y)	0.00010	0.00010	0.00011
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	-0.00056	-0.00055	-0.00055
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	0.00007	0.00007	0.00007
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	0.00010	0.00010	0.00011

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X3H7H	**(A0 * B0 * B1 * C0 * C1 * !Y)**	0.00026	0.00026	0.00026
	(A0 * B0 * B1 * C0 * C1 * !Y)	0.00006	0.00006	0.00006
	(A0 * B0 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * C0 * C1 * !Y)	-0.00054	-0.00053	-0.00053
	(A0 * B0 * B1 * !C1 * !Y)	0.00026	0.00026	0.00026
	(A0 * B0 * B1 * !C1 * !Y)	0.00006	0.00006	0.00006
	(A0 * B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * !C1 * !Y)	-0.00054	-0.00054	-0.00054
	(A0 * B0 * B1 * !C0 * C1 * !Y)	0.00025	0.00026	0.00026
	(A0 * B0 * B1 * !C0 * C1 * !Y)	0.00006	0.00006	0.00006
	(A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00054	-0.00054	-0.00053
	(A0 * !B1 * C0 * C1 * !Y)	0.00025	0.00025	0.00025
	(A0 * !B1 * C0 * C1 * !Y)	0.00005	0.00006	0.00006
	(A0 * !B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B1 * C0 * C1 * !Y)	-0.00054	-0.00054	-0.00054
	(A0 * !B0 * B1 * C0 * C1 * !Y)	0.00025	0.00025	0.00025
	(A0 * !B0 * B1 * C0 * C1 * !Y)	0.00005	0.00006	0.00007
	(A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00054	-0.00054	-0.00054
	(!A0 * B0 * B1 * C0 * C1 * !Y)	0.00035	0.00035	0.00035
	(!A0 * B0 * B1 * C0 * C1 * !Y)	0.00002	0.00002	0.00003
	(!A0 * B0 * B1 * C0 * C1 * !Y)	-0.00004	-0.00004	-0.00003
	(!A0 * B0 * B1 * C0 * C1 * !Y)	-0.00047	-0.00045	-0.00042
	(!A0 * B0 * B1 * !C1 * !Y)	0.00035	0.00035	0.00035
	(!A0 * B0 * B1 * !C1 * !Y)	0.00002	0.00003	0.00003
	(!A0 * B0 * B1 * !C1 * !Y)	-0.00004	-0.00004	-0.00003
	(!A0 * B0 * B1 * !C1 * !Y)	-0.00046	-0.00044	-0.00042
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	0.00035	0.00035	0.00035
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00005	-0.00004	-0.00003
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00046	-0.00044	-0.00042
	(!A0 * !B1 * C0 * C1 * !Y)	0.00035	0.00035	0.00035
	(!A0 * !B1 * C0 * C1 * !Y)	0.00001	0.00002	0.00003
	(!A0 * !B1 * C0 * C1 * !Y)	-0.00004	-0.00004	-0.00003
	(!A0 * !B1 * C0 * C1 * !Y)	-0.00047	-0.00044	-0.00042
	(!A0 * !B1 * !C1 * Y)	0.00055	0.00056	0.00056
	(!A0 * !B1 * !C1 * Y)	0.00002	0.00003	0.00003
	(!A0 * !B1 * !C1 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !B1 * !C1 * Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !B1 * !C0 * C1 * Y)	0.00055	0.00056	0.00056
	(!A0 * !B1 * !C0 * C1 * Y)	0.00002	0.00003	0.00003
	(!A0 * !B1 * !C0 * C1 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !B1 * !C0 * C1 * Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	0.00035	0.00035	0.00035
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	0.00002	0.00003	0.00004
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00005	-0.00004	-0.00003
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00047	-0.00044	-0.00041
	(!A0 * !B0 * B1 * !C1 * Y)	0.00055	0.00056	0.00056
	(!A0 * !B0 * B1 * !C1 * Y)	0.00002	0.00003	0.00003
	(!A0 * !B0 * B1 * !C1 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !B0 * B1 * !C1 * Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	0.00055	0.00056	0.00056
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	0.00002	0.00003	0.00003
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	-0.00010	-0.00010	-0.00010

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X3H7H	**(A0 * A1 * B1 * C0 * C1 * !Y)**	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * C0 * C1 * !Y)	-0.00015	-0.00015	-0.00015
	(A0 * A1 * B1 * C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B1 * C0 * C1 * !Y)	0.00057	0.00057	0.00058
	(A0 * A1 * B1 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C1 * !Y)	-0.00012	-0.00012	-0.00012
	(A0 * A1 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B1 * !C1 * !Y)	0.00057	0.00057	0.00057
	(A0 * A1 * B1 * !C0 * C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * !Y)	-0.00012	-0.00012	-0.00012
	(A0 * A1 * B1 * !C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B1 * !C0 * C1 * !Y)	0.00057	0.00057	0.00057
	(A0 * A1 * !B1 * C0 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B1 * C0 * C1 * !Y)	-0.00015	-0.00015	-0.00014
	(A0 * A1 * !B1 * C0 * C1 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * !B1 * C0 * C1 * !Y)	0.00051	0.00051	0.00051
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00012	-0.00012	-0.00011
	(A0 * A1 * !B1 * !C1 * !Y)	0.00003	0.00004	0.00004
	(A0 * A1 * !B1 * !C1 * !Y)	0.00050	0.00051	0.00051
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00012	-0.00012	-0.00011
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00003	0.00004	0.00005
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00050	0.00051	0.00051
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	-0.00040	-0.00040	-0.00039
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	-0.00003	-0.00002	-0.00002
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	0.00003	0.00004	0.00004
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	0.00045	0.00045	0.00046
	(!A1 * B1 * C0 * C1 * !Y)	-0.00031	-0.00027	-0.00022
	(!A1 * B1 * C0 * C1 * !Y)	-0.00006	-0.00006	-0.00005
	(!A1 * B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B1 * C0 * C1 * !Y)	0.00054	0.00054	0.00055
	(!A1 * !B1 * !C1 * Y)	-0.00044	-0.00043	-0.00043
	(!A1 * !B1 * !C1 * Y)	-0.00003	-0.00002	-0.00001
	(!A1 * !B1 * !C1 * Y)	0.00003	0.00003	0.00004
	(!A1 * !B1 * !C1 * Y)	0.00042	0.00042	0.00043
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00044	-0.00043	-0.00043
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00002	-0.00002	-0.00000
	(!A1 * !B1 * !C0 * C1 * Y)	0.00003	0.00003	0.00004
	(!A1 * !B1 * !C0 * C1 * Y)	0.00042	0.00042	0.00042
	(!A0 * A1 * B1 * C0 * C1 * !Y)	-0.00031	-0.00027	-0.00022
	(!A0 * A1 * B1 * C0 * C1 * !Y)	-0.00006	-0.00006	-0.00005
	(!A0 * A1 * B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * B1 * C0 * C1 * !Y)	0.00054	0.00054	0.00055
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00044	-0.00043	-0.00043
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00003	-0.00002	-0.00001
	(!A0 * A1 * !B1 * !C1 * Y)	0.00003	0.00003	0.00004
	(!A0 * A1 * !B1 * !C1 * Y)	0.00042	0.00042	0.00043
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00044	-0.00043	-0.00043
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00002	-0.00002	-0.00000
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	0.00003	0.00003	0.00004
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	0.00042	0.00042	0.00042

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X3H7H	**(A0 * A1 * B1 * C0 * C1 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * C1 * !Y)	0.00015	0.00015	0.00015
	(A0 * A1 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * B1 * C0 * C1 * !Y)	-0.00057	-0.00057	-0.00057
	(A0 * A1 * B1 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C1 * !Y)	0.00012	0.00012	0.00012
	(A0 * A1 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B1 * !C1 * !Y)	-0.00057	-0.00057	-0.00056
	(A0 * A1 * B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * !Y)	0.00012	0.00012	0.00012
	(A0 * A1 * B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	0.00000
	(A0 * A1 * B1 * !C0 * C1 * !Y)	-0.00057	-0.00057	-0.00056
	(A0 * A1 * !B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * C1 * !Y)	0.00014	0.00015	0.00015
	(A0 * A1 * !B1 * C0 * C1 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * !B1 * C0 * C1 * !Y)	-0.00051	-0.00049	-0.00045
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * !Y)	0.00011	0.00012	0.00012
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00004	-0.00004	-0.00003
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00051	-0.00049	-0.00046
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00011	0.00012	0.00012
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00004	-0.00004	-0.00003
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00051	-0.00049	-0.00046
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	0.00039	0.00040	0.00040
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	0.00002	0.00003	0.00003
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	-0.00004	-0.00004	-0.00003
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	-0.00046	-0.00044	-0.00042
	(!A1 * B1 * C0 * C1 * !Y)	0.00030	0.00030	0.00031
	(!A1 * B1 * C0 * C1 * !Y)	0.00006	0.00006	0.00006
	(!A1 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B1 * C0 * C1 * !Y)	-0.00054	-0.00054	-0.00053
	(!A1 * !B1 * !C1 * Y)	0.00043	0.00044	0.00045
	(!A1 * !B1 * !C1 * Y)	0.00002	0.00003	0.00004
	(!A1 * !B1 * !C1 * Y)	-0.00004	-0.00003	-0.00003
	(!A1 * !B1 * !C1 * Y)	-0.00042	-0.00040	-0.00036
	(!A1 * !B1 * !C0 * C1 * Y)	0.00044	0.00044	0.00045
	(!A1 * !B1 * !C0 * C1 * Y)	0.00001	0.00002	0.00003
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00004	-0.00003	-0.00003
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00042	-0.00040	-0.00036
	(!A0 * A1 * B1 * C0 * C1 * !Y)	0.00030	0.00030	0.00031
	(!A0 * A1 * B1 * C0 * C1 * !Y)	0.00005	0.00006	0.00006
	(!A0 * A1 * B1 * C0 * C1 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * A1 * B1 * C0 * C1 * !Y)	-0.00054	-0.00053	-0.00053
	(!A0 * A1 * !B1 * !C1 * Y)	0.00043	0.00044	0.00045
	(!A0 * A1 * !B1 * !C1 * Y)	0.00001	0.00002	0.00003
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00004	-0.00003	-0.00003
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00042	-0.00040	-0.00036
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	0.00044	0.00044	0.00045
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	0.00002	0.00003	0.00004
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00004	-0.00003	-0.00003
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00042	-0.00040	-0.00037

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X3H7H	**(A0 * A1 * B0 * C0 * C1 * !Y)**	-0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * C1 * !Y)	-0.00017	-0.00017	-0.00017
	(A0 * A1 * B0 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * C0 * C1 * !Y)	0.00057	0.00057	0.00058
	(A0 * A1 * B0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C1 * !Y)	-0.00013	-0.00013	-0.00013
	(A0 * A1 * B0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * !C1 * !Y)	0.00056	0.00057	0.00057
	(A0 * A1 * B0 * !C0 * C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * C1 * !Y)	-0.00013	-0.00013	-0.00013
	(A0 * A1 * B0 * !C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * !C0 * C1 * !Y)	0.00056	0.00057	0.00057
	(A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00016	-0.00016	-0.00016
	(A0 * A1 * !B0 * C0 * C1 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * !B0 * C0 * C1 * !Y)	0.00050	0.00051	0.00051
	(A0 * A1 * !B0 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C1 * !Y)	-0.00013	-0.00013	-0.00012
	(A0 * A1 * !B0 * !C1 * !Y)	0.00003	0.00004	0.00004
	(A0 * A1 * !B0 * !C1 * !Y)	0.00050	0.00050	0.00051
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00013	-0.00013	-0.00012
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00003	0.00004	0.00005
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00050	0.00050	0.00051
	(!A1 * B0 * C0 * C1 * !Y)	-0.00036	-0.00032	-0.00027
	(!A1 * B0 * C0 * C1 * !Y)	-0.00006	-0.00006	-0.00005
	(!A1 * B0 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * C0 * C1 * !Y)	0.00053	0.00054	0.00055
	(!A1 * !B0 * C0 * C1 * !Y)	-0.00045	-0.00044	-0.00044
	(!A1 * !B0 * C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * C0 * C1 * !Y)	0.00004	0.00004	0.00004
	(!A1 * !B0 * C0 * C1 * !Y)	0.00044	0.00044	0.00045
	(!A1 * !B0 * !C1 * Y)	-0.00067	-0.00067	-0.00067
	(!A1 * !B0 * !C1 * Y)	-0.00003	-0.00003	-0.00002
	(!A1 * !B0 * !C1 * Y)	0.00007	0.00007	0.00007
	(!A1 * !B0 * !C1 * Y)	0.00006	0.00006	0.00007
	(!A1 * !B0 * !C0 * C1 * Y)	-0.00067	-0.00067	-0.00067
	(!A1 * !B0 * !C0 * C1 * Y)	-0.00003	-0.00003	-0.00002
	(!A1 * !B0 * !C0 * C1 * Y)	0.00007	0.00007	0.00007
	(!A1 * !B0 * !C0 * C1 * Y)	0.00006	0.00006	0.00007
	(!A0 * A1 * B0 * C0 * C1 * !Y)	-0.00036	-0.00032	-0.00027
	(!A0 * A1 * B0 * C0 * C1 * !Y)	-0.00006	-0.00006	-0.00005
	(!A0 * A1 * B0 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * C0 * C1 * !Y)	0.00053	0.00054	0.00054
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00045	-0.00044	-0.00044
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	0.00004	0.00004	0.00005
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	0.00044	0.00044	0.00045
	(!A0 * A1 * !B0 * !C1 * Y)	-0.00067	-0.00067	-0.00066
	(!A0 * A1 * !B0 * !C1 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * A1 * !B0 * !C1 * Y)	0.00007	0.00007	0.00007
	(!A0 * A1 * !B0 * !C1 * Y)	0.00006	0.00006	0.00007
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00067	-0.00067	-0.00066
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	0.00007	0.00007	0.00007
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	0.00006	0.00006	0.00007

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X3H7H	**(A0 * A1 * B0 * C0 * C1 * !Y)**	-0.00000	-0.00000	0.00000
	(A0 * A1 * B0 * C0 * C1 * !Y)	0.00017	0.00017	0.00017
	(A0 * A1 * B0 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B0 * C0 * C1 * !Y)	-0.00057	-0.00057	-0.00057
	(A0 * A1 * B0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C1 * !Y)	0.00014	0.00014	0.00014
	(A0 * A1 * B0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B0 * !C1 * !Y)	-0.00057	-0.00057	-0.00056
	(A0 * A1 * B0 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * C1 * !Y)	0.00014	0.00014	0.00014
	(A0 * A1 * B0 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B0 * !C0 * C1 * !Y)	-0.00057	-0.00057	-0.00056
	(A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * C0 * C1 * !Y)	0.00016	0.00016	0.00016
	(A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00051	-0.00049	-0.00046
	(A0 * A1 * !B0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * !C1 * !Y)	0.00012	0.00013	0.00013
	(A0 * A1 * !B0 * !C1 * !Y)	-0.00004	-0.00004	-0.00003
	(A0 * A1 * !B0 * !C1 * !Y)	-0.00050	-0.00048	-0.00045
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00012	0.00013	0.00013
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00005	-0.00004	-0.00003
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00051	-0.00048	-0.00045
	(!A1 * B0 * C0 * C1 * !Y)	0.00035	0.00036	0.00036
	(!A1 * B0 * C0 * C1 * !Y)	0.00006	0.00006	0.00006
	(!A1 * B0 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * C0 * C1 * !Y)	-0.00054	-0.00053	-0.00053
	(!A1 * !B0 * C0 * C1 * !Y)	0.00044	0.00044	0.00045
	(!A1 * !B0 * C0 * C1 * !Y)	0.00002	0.00003	0.00003
	(!A1 * !B0 * C0 * C1 * !Y)	-0.00004	-0.00004	-0.00004
	(!A1 * !B0 * C0 * C1 * !Y)	-0.00045	-0.00042	-0.00039
	(!A1 * !B0 * !C1 * Y)	0.00067	0.00067	0.00067
	(!A1 * !B0 * !C1 * Y)	0.00002	0.00003	0.00003
	(!A1 * !B0 * !C1 * Y)	-0.00007	-0.00007	-0.00007
	(!A1 * !B0 * !C1 * Y)	-0.00007	-0.00006	-0.00006
	(!A1 * !B0 * !C0 * C1 * Y)	0.00067	0.00067	0.00067
	(!A1 * !B0 * !C0 * C1 * Y)	0.00002	0.00003	0.00003
	(!A1 * !B0 * !C0 * C1 * Y)	-0.00007	-0.00007	-0.00007
	(!A1 * !B0 * !C0 * C1 * Y)	-0.00007	-0.00006	-0.00006
	(!A0 * A1 * B0 * C0 * C1 * !Y)	0.00035	0.00036	0.00036
	(!A0 * A1 * B0 * C0 * C1 * !Y)	0.00005	0.00006	0.00006
	(!A0 * A1 * B0 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * C0 * C1 * !Y)	-0.00053	-0.00053	-0.00052
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	0.00044	0.00045	0.00045
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	0.00002	0.00003	0.00003
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00005	-0.00004	-0.00004
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00045	-0.00043	-0.00040
	(!A0 * A1 * !B0 * !C1 * Y)	0.00067	0.00067	0.00067
	(!A0 * A1 * !B0 * !C1 * Y)	0.00002	0.00003	0.00003
	(!A0 * A1 * !B0 * !C1 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * A1 * !B0 * !C1 * Y)	-0.00007	-0.00006	-0.00006
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	0.00067	0.00067	0.00067
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	0.00002	0.00003	0.00003
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00007	-0.00006	-0.00006

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X3H7H	**(A1 * B0 * B1 * C1 * !Y)**	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * C1 * !Y)	-0.00008	-0.00008	-0.00008
	(A1 * B0 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * C1 * !Y)	0.00071	0.00071	0.00072
	(A1 * B0 * B1 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C1 * !Y)	-0.00008	-0.00007	-0.00007
	(A1 * B0 * B1 * !C1 * !Y)	0.00003	0.00004	0.00004
	(A1 * B0 * B1 * !C1 * !Y)	0.00064	0.00065	0.00065
	(A0 * A1 * !B1 * C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C1 * !Y)	-0.00008	-0.00008	-0.00007
	(A0 * A1 * !B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * C1 * !Y)	0.00070	0.00071	0.00072
	(A0 * A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00008	-0.00007	-0.00007
	(A0 * A1 * !B1 * !C1 * !Y)	0.00003	0.00004	0.00004
	(A0 * A1 * !B1 * !C1 * !Y)	0.00064	0.00065	0.00065
	(A0 * A1 * !B0 * B1 * C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C1 * !Y)	-0.00008	-0.00008	-0.00008
	(A0 * A1 * !B0 * B1 * C1 * !Y)	0.00001	0.00001	0.00002
	(A0 * A1 * !B0 * B1 * C1 * !Y)	0.00071	0.00071	0.00072
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00007	-0.00007	-0.00007
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00002	0.00003	0.00004
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00064	0.00065	0.00065
	(!A1 * B0 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * C1 * !Y)	-0.00007	-0.00007	-0.00007
	(!A1 * B0 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * C1 * !Y)	0.00070	0.00071	0.00071
	(!A1 * B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !C1 * !Y)	-0.00007	-0.00007	-0.00007
	(!A1 * B0 * B1 * !C1 * !Y)	0.00003	0.00004	0.00004
	(!A1 * B0 * B1 * !C1 * !Y)	0.00064	0.00065	0.00065
	(!A1 * !B1 * !C1 * Y)	-0.00044	-0.00044	-0.00044
	(!A1 * !B1 * !C1 * Y)	-0.00003	-0.00003	-0.00002
	(!A1 * !B1 * !C1 * Y)	0.00003	0.00003	0.00004
	(!A1 * !B1 * !C1 * Y)	0.00042	0.00042	0.00043
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00044	-0.00044	-0.00044
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00003	-0.00003	-0.00002
	(!A1 * !B0 * B1 * !C1 * Y)	0.00003	0.00003	0.00004
	(!A1 * !B0 * B1 * !C1 * Y)	0.00042	0.00042	0.00043
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00044	-0.00044	-0.00044
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * A1 * !B1 * !C1 * Y)	0.00003	0.00003	0.00004
	(!A0 * A1 * !B1 * !C1 * Y)	0.00042	0.00042	0.00043
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00044	-0.00044	-0.00044
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	0.00003	0.00003	0.00004
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	0.00041	0.00042	0.00043

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X3H7H	**(A1 * B0 * B1 * C1 * !Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C1 * !Y)	0.00008	0.00008	0.00008
	(A1 * B0 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * C1 * !Y)	-0.00071	-0.00071	-0.00070
	(A1 * B0 * B1 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C1 * !Y)	0.00008	0.00008	0.00008
	(A1 * B0 * B1 * !C1 * !Y)	-0.00004	-0.00004	-0.00003
	(A1 * B0 * B1 * !C1 * !Y)	-0.00065	-0.00063	-0.00061
	(A0 * A1 * !B1 * C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C1 * !Y)	0.00008	0.00008	0.00008
	(A0 * A1 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * C1 * !Y)	-0.00071	-0.00070	-0.00069
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * !Y)	0.00007	0.00007	0.00008
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00004	-0.00004	-0.00003
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00065	-0.00063	-0.00060
	(A0 * A1 * !B0 * B1 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C1 * !Y)	0.00008	0.00008	0.00008
	(A0 * A1 * !B0 * B1 * C1 * !Y)	-0.00002	-0.00001	-0.00001
	(A0 * A1 * !B0 * B1 * C1 * !Y)	-0.00071	-0.00070	-0.00069
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00007	0.00007	0.00008
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00004	-0.00003	-0.00002
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00065	-0.00063	-0.00060
	(!A1 * B0 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * C1 * !Y)	0.00008	0.00008	0.00008
	(!A1 * B0 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * C1 * !Y)	-0.00071	-0.00071	-0.00070
	(!A1 * B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C1 * !Y)	0.00007	0.00007	0.00007
	(!A1 * B0 * B1 * !C1 * !Y)	-0.00004	-0.00004	-0.00003
	(!A1 * B0 * B1 * !C1 * !Y)	-0.00065	-0.00063	-0.00061
	(!A1 * !B1 * !C1 * Y)	0.00044	0.00044	0.00046
	(!A1 * !B1 * !C1 * Y)	0.00002	0.00003	0.00003
	(!A1 * !B1 * !C1 * Y)	-0.00004	-0.00003	-0.00003
	(!A1 * !B1 * !C1 * Y)	-0.00042	-0.00040	-0.00036
	(!A1 * !B0 * B1 * !C1 * Y)	0.00044	0.00044	0.00046
	(!A1 * !B0 * B1 * !C1 * Y)	0.00002	0.00003	0.00003
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00004	-0.00003	-0.00003
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00042	-0.00040	-0.00036
	(!A0 * A1 * !B1 * !C1 * Y)	0.00044	0.00044	0.00046
	(!A0 * A1 * !B1 * !C1 * Y)	0.00002	0.00003	0.00003
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00004	-0.00003	-0.00003
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00042	-0.00040	-0.00036
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	0.00044	0.00044	0.00046
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00004	-0.00003	-0.00003
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00042	-0.00040	-0.00037

Passive power(pJ) for C1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X3H7H	**(A1 * B0 * B1 * C0 * !Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C0 * !Y)	-0.00008	-0.00008	-0.00008
	(A1 * B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * C0 * !Y)	0.00075	0.00076	0.00076
	(A1 * B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * !C0 * !Y)	-0.00008	-0.00008	-0.00008
	(A1 * B0 * B1 * !C0 * !Y)	0.00004	0.00004	0.00004
	(A1 * B0 * B1 * !C0 * !Y)	0.00069	0.00069	0.00070
	(A0 * A1 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * !Y)	-0.00008	-0.00008	-0.00008
	(A0 * A1 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * C0 * !Y)	0.00075	0.00076	0.00076
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00008	-0.00008	-0.00008
	(A0 * A1 * !B1 * !C0 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * !B1 * !C0 * !Y)	0.00069	0.00069	0.00070
	(A0 * A1 * !B0 * B1 * C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C0 * !Y)	-0.00008	-0.00008	-0.00008
	(A0 * A1 * !B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * B1 * C0 * !Y)	0.00075	0.00076	0.00076
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00008	-0.00007	-0.00007
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00003	0.00004	0.00004
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00069	0.00069	0.00069
	(!A1 * B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * C0 * !Y)	-0.00008	-0.00007	-0.00007
	(!A1 * B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * C0 * !Y)	0.00075	0.00076	0.00076
	(!A1 * B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !C0 * !Y)	-0.00008	-0.00007	-0.00007
	(!A1 * B0 * B1 * !C0 * !Y)	0.00004	0.00004	0.00004
	(!A1 * B0 * B1 * !C0 * !Y)	0.00069	0.00069	0.00070
	(!A1 * !B1 * !C0 * Y)	-0.00068	-0.00067	-0.00067
	(!A1 * !B1 * !C0 * Y)	-0.00003	-0.00002	-0.00002
	(!A1 * !B1 * !C0 * Y)	0.00007	0.00007	0.00008
	(!A1 * !B1 * !C0 * Y)	0.00007	0.00007	0.00007
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00068	-0.00067	-0.00067
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00003	-0.00002	-0.00002
	(!A1 * !B0 * B1 * !C0 * Y)	0.00007	0.00007	0.00008
	(!A1 * !B0 * B1 * !C0 * Y)	0.00007	0.00007	0.00007
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00068	-0.00067	-0.00067
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00003	-0.00002	-0.00002
	(!A0 * A1 * !B1 * !C0 * Y)	0.00007	0.00007	0.00008
	(!A0 * A1 * !B1 * !C0 * Y)	0.00007	0.00007	0.00007
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00068	-0.00067	-0.00067
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00003	-0.00002	-0.00002
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	0.00007	0.00007	0.00008
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	0.00007	0.00007	0.00007

Passive power(pJ) for C1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

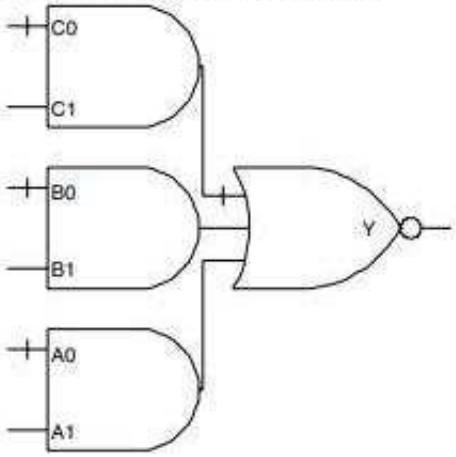
AOI222X3H7H	**(A1 * B0 * B1 * C0 * !Y)**	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C0 * !Y)	0.00008	0.00008	0.00009
	(A1 * B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * C0 * !Y)	-0.00076	-0.00076	-0.00075
	(A1 * B0 * B1 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C0 * !Y)	0.00008	0.00008	0.00008
	(A1 * B0 * B1 * !C0 * !Y)	-0.00004	-0.00004	-0.00004
	(A1 * B0 * B1 * !C0 * !Y)	-0.00070	-0.00068	-0.00065
	(A0 * A1 * !B1 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B1 * C0 * !Y)	0.00008	0.00008	0.00008
	(A0 * A1 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * C0 * !Y)	-0.00076	-0.00075	-0.00074
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * !Y)	0.00008	0.00008	0.00008
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00070	-0.00067	-0.00065
	(A0 * A1 * !B0 * B1 * C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C0 * !Y)	0.00008	0.00008	0.00008
	(A0 * A1 * !B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * B1 * C0 * !Y)	-0.00076	-0.00075	-0.00074
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00007	0.00007	0.00008
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00004	-0.00004	-0.00003
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00069	-0.00067	-0.00064
	(!A1 * B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * C0 * !Y)	0.00008	0.00008	0.00008
	(!A1 * B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * C0 * !Y)	-0.00076	-0.00075	-0.00074
	(!A1 * B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C0 * !Y)	0.00007	0.00007	0.00008
	(!A1 * B0 * B1 * !C0 * !Y)	-0.00004	-0.00004	-0.00004
	(!A1 * B0 * B1 * !C0 * !Y)	-0.00070	-0.00067	-0.00065
	(!A1 * !B1 * !C0 * Y)	0.00067	0.00067	0.00068
	(!A1 * !B1 * !C0 * Y)	0.00002	0.00003	0.00003
	(!A1 * !B1 * !C0 * Y)	-0.00007	-0.00007	-0.00006
	(!A1 * !B1 * !C0 * Y)	-0.00007	-0.00007	-0.00006
	(!A1 * !B0 * B1 * !C0 * Y)	0.00067	0.00067	0.00068
	(!A1 * !B0 * B1 * !C0 * Y)	0.00002	0.00003	0.00003
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00007	-0.00007	-0.00007
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00007	-0.00007	-0.00006
	(!A0 * A1 * !B1 * !C0 * Y)	0.00067	0.00067	0.00068
	(!A0 * A1 * !B1 * !C0 * Y)	0.00002	0.00003	0.00003
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00007	-0.00007	-0.00006
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00007	-0.00007	-0.00006
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	0.00067	0.00067	0.00068
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	0.00002	0.00003	0.00003
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00007	-0.00007	-0.00006
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00007	-0.00007	-0.00006

AOI222X4H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI222 cell provides the logical inverted OR of three AND groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT						OUTPUT
A0	A1	B0	B1	C0	C1	Y
0	x	0	x	0	x	1
0	x	0	x	1	0	1
0	x	x	x	1	1	0
0	x	1	0	0	x	1
0	x	1	0	1	0	1
x	x	1	1	x	x	0
1	0	0	x	0	x	1
1	0	0	x	1	0	1
1	0	x	x	1	1	0
1	0	1	0	0	x	1
1	0	1	0	1	0	1
1	1	x	x	x	x	0

Footprint

Cell Name	Area
AOI222X4H7H	6.44000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	A1	B0	B1	C0	C1	Y
AOI222X4H7H	0.00220	0.00216	0.00204	0.00237	0.00217	0.00249	0.03316

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI222X4H7H	0.00000	0.06737	0.16324

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI222X4H7H	A0->Y (FR)	0.11566	0.29181	0.76270
	A1->Y (FR)	0.10744	0.28188	0.75222
	B0->Y (FR)	0.10536	0.28171	0.77052
	B1->Y (FR)	0.09832	0.27276	0.76083
	C0->Y (FR)	0.08125	0.25122	0.73044
	C1->Y (FR)	0.07529	0.24298	0.72165

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI222X4H7H	A0->Y (RF)	0.04671	0.16073	0.49849
	A1->Y (RF)	0.04347	0.15367	0.49322
	B0->Y (RF)	0.03996	0.15014	0.48591
	B1->Y (RF)	0.03769	0.14334	0.48171
	C0->Y (RF)	0.03116	0.13674	0.47288
	C1->Y (RF)	0.02925	0.12975	0.46851

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI222X4H7H	A0	0.00636	0.00641	0.00645
	A0	-0.00081	-0.00081	-0.00079
	A0	0.00070	0.00070	0.00071
	A0	-0.00003	0.00003	0.00007
	A1	0.00587	0.00597	0.00604
	A1	-0.00081	-0.00081	-0.00078
	A1	0.00055	0.00056	0.00056
	A1	0.00002	0.00012	0.00020
	B0	0.00513	0.00519	0.00524
	B0	-0.00060	-0.00051	-0.00027
	B0	0.00069	0.00070	0.00071
	B0	-0.00005	0.00001	0.00006
	B1	0.00481	0.00490	0.00498
	B1	-0.00060	-0.00051	-0.00035
	B1	0.00055	0.00056	0.00056
	B1	-0.00005	0.00005	0.00013
	C0	0.00382	0.00395	0.00403
	C0	-0.00021	-0.00020	-0.00000
	C0	0.00069	0.00070	0.00070
	C0	-0.00025	-0.00018	-0.00011
	C1	0.00350	0.00365	0.00376
	C1	-0.00021	-0.00020	0.00000
	C1	0.00055	0.00056	0.00056
	C1	-0.00026	-0.00014	-0.00003

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI222X4H7H	A0	-0.00034	-0.00027	-0.00022
	A0	0.00084	0.00086	0.00086
	A0	-0.00042	-0.00041	-0.00041
	A0	0.00570	0.00582	0.00589
	A1	-0.00034	-0.00027	-0.00021
	A1	0.00084	0.00085	0.00086
	A1	-0.00027	-0.00027	-0.00026
	A1	0.00505	0.00520	0.00528
	B0	-0.00035	-0.00024	0.00001
	B0	0.00030	0.00054	0.00062
	B0	-0.00042	-0.00041	-0.00041
	B0	0.00489	0.00497	0.00502
	B1	-0.00050	-0.00034	-0.00023
	B1	0.00038	0.00054	0.00066
	B1	-0.00028	-0.00027	-0.00026
	B1	0.00434	0.00446	0.00453
	C0	-0.00026	-0.00016	0.00008
	C0	0.00019	0.00021	0.00026
	C0	-0.00041	-0.00041	-0.00041
	C0	0.00414	0.00422	0.00429
	C1	-0.00032	-0.00021	0.00004
	C1	0.00019	0.00020	0.00023
	C1	-0.00027	-0.00027	-0.00026
	C1	0.00365	0.00374	0.00383

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X4H7H	**(A1 * B0 * B1 * C0 * C1 * !Y)**	-0.00037	-0.00031	-0.00024
	(A1 * B0 * B1 * C0 * C1 * !Y)	-0.00009	-0.00009	-0.00009
	(A1 * B0 * B1 * C0 * C1 * !Y)	0.00001	0.00002	0.00002
	(A1 * B0 * B1 * C0 * C1 * !Y)	0.00062	0.00062	0.00062
	(A1 * B0 * B1 * !C1 * !Y)	-0.00036	-0.00031	-0.00023
	(A1 * B0 * B1 * !C1 * !Y)	-0.00009	-0.00009	-0.00009
	(A1 * B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00002
	(A1 * B0 * B1 * !C1 * !Y)	0.00062	0.00062	0.00063
	(A1 * B0 * B1 * !C0 * C1 * !Y)	-0.00037	-0.00031	-0.00024
	(A1 * B0 * B1 * !C0 * C1 * !Y)	-0.00009	-0.00009	-0.00009
	(A1 * B0 * B1 * !C0 * C1 * !Y)	0.00001	0.00001	0.00002
	(A1 * B0 * B1 * !C0 * C1 * !Y)	0.00062	0.00062	0.00063
	(A1 * !B1 * C0 * C1 * !Y)	-0.00035	-0.00029	-0.00023
	(A1 * !B1 * C0 * C1 * !Y)	-0.00010	-0.00009	-0.00008
	(A1 * !B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00002
	(A1 * !B1 * C0 * C1 * !Y)	0.00063	0.00064	0.00065
	(A1 * !B0 * B1 * C0 * C1 * !Y)	-0.00035	-0.00029	-0.00023
	(A1 * !B0 * B1 * C0 * C1 * !Y)	-0.00009	-0.00009	-0.00009
	(A1 * !B0 * B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * B1 * C0 * C1 * !Y)	0.00063	0.00064	0.00065
	(!A1 * B0 * B1 * !Y)	-0.00052	-0.00052	-0.00051
	(!A1 * B0 * B1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1 * B0 * B1 * !Y)	0.00004	0.00005	0.00005
	(!A1 * B0 * B1 * !Y)	0.00052	0.00053	0.00053
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	-0.00052	-0.00052	-0.00051
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	0.00004	0.00005	0.00005
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	0.00053	0.00053	0.00053
	(!A1 * !B1 * !C1 * Y)	-0.00054	-0.00054	-0.00053
	(!A1 * !B1 * !C1 * Y)	-0.00004	-0.00003	-0.00002
	(!A1 * !B1 * !C1 * Y)	0.00004	0.00004	0.00005
	(!A1 * !B1 * !C1 * Y)	0.00052	0.00053	0.00053
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00054	-0.00054	-0.00053
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00003	-0.00003	-0.00001
	(!A1 * !B1 * !C0 * C1 * Y)	0.00004	0.00004	0.00005
	(!A1 * !B1 * !C0 * C1 * Y)	0.00052	0.00052	0.00053
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00054	-0.00053	-0.00053
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00003	-0.00003	-0.00001
	(!A1 * !B0 * B1 * !C1 * Y)	0.00004	0.00004	0.00005
	(!A1 * !B0 * B1 * !C1 * Y)	0.00052	0.00052	0.00053
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	-0.00054	-0.00053	-0.00053
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	-0.00003	-0.00003	-0.00001
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	0.00004	0.00004	0.00005
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	0.00052	0.00052	0.00053

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X4H7H	**(A1 * B0 * B1 * C0 * C1 * !Y)**	0.00036	0.00036	0.00037
	(A1 * B0 * B1 * C0 * C1 * !Y)	0.00009	0.00009	0.00009
	(A1 * B0 * B1 * C0 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * B0 * B1 * C0 * C1 * !Y)	-0.00062	-0.00062	-0.00061
	(A1 * B0 * B1 * !C1 * !Y)	0.00036	0.00036	0.00036
	(A1 * B0 * B1 * !C1 * !Y)	0.00009	0.00009	0.00009
	(A1 * B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !C1 * !Y)	-0.00062	-0.00062	-0.00062
	(A1 * B0 * B1 * !C0 * C1 * !Y)	0.00036	0.00036	0.00037
	(A1 * B0 * B1 * !C0 * C1 * !Y)	0.00009	0.00009	0.00009
	(A1 * B0 * B1 * !C0 * C1 * !Y)	-0.00002	-0.00001	-0.00001
	(A1 * B0 * B1 * !C0 * C1 * !Y)	-0.00062	-0.00062	-0.00061
	(A1 * !B1 * C0 * C1 * !Y)	0.00035	0.00035	0.00035
	(A1 * !B1 * C0 * C1 * !Y)	0.00008	0.00009	0.00010
	(A1 * !B1 * C0 * C1 * !Y)	-0.00002	-0.00001	-0.00001
	(A1 * !B1 * C0 * C1 * !Y)	-0.00063	-0.00063	-0.00062
	(A1 * !B0 * B1 * C0 * C1 * !Y)	0.00035	0.00035	0.00035
	(A1 * !B0 * B1 * C0 * C1 * !Y)	0.00009	0.00009	0.00009
	(A1 * !B0 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * B1 * C0 * C1 * !Y)	-0.00063	-0.00063	-0.00062
	(!A1 * B0 * B1 * !Y)	0.00052	0.00052	0.00052
	(!A1 * B0 * B1 * !Y)	0.00003	0.00003	0.00003
	(!A1 * B0 * B1 * !Y)	-0.00005	-0.00005	-0.00004
	(!A1 * B0 * B1 * !Y)	-0.00053	-0.00051	-0.00048
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	0.00052	0.00052	0.00052
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	0.00003	0.00003	0.00003
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	-0.00005	-0.00005	-0.00004
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	-0.00053	-0.00051	-0.00048
	(!A1 * !B1 * !C1 * Y)	0.00054	0.00055	0.00056
	(!A1 * !B1 * !C1 * Y)	0.00002	0.00003	0.00004
	(!A1 * !B1 * !C1 * Y)	-0.00005	-0.00004	-0.00004
	(!A1 * !B1 * !C1 * Y)	-0.00052	-0.00049	-0.00046
	(!A1 * !B1 * !C0 * C1 * Y)	0.00054	0.00055	0.00056
	(!A1 * !B1 * !C0 * C1 * Y)	0.00002	0.00003	0.00004
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00005	-0.00004	-0.00004
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00052	-0.00049	-0.00046
	(!A1 * !B0 * B1 * !C1 * Y)	0.00054	0.00055	0.00056
	(!A1 * !B0 * B1 * !C1 * Y)	0.00002	0.00003	0.00005
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00005	-0.00004	-0.00004
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00052	-0.00049	-0.00045
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	0.00054	0.00055	0.00056
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	0.00002	0.00003	0.00005
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	-0.00005	-0.00004	-0.00004
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	-0.00052	-0.00049	-0.00046

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X4H7H	**(A0 * B0 * B1 * C0 * C1 * !Y)**	-0.00033	-0.00029	-0.00022
	(A0 * B0 * B1 * C0 * C1 * !Y)	-0.00008	-0.00007	-0.00007
	(A0 * B0 * B1 * C0 * C1 * !Y)	0.00001	0.00002	0.00002
	(A0 * B0 * B1 * C0 * C1 * !Y)	0.00059	0.00059	0.00059
	(A0 * B0 * B1 * !C1 * !Y)	-0.00033	-0.00029	-0.00023
	(A0 * B0 * B1 * !C1 * !Y)	-0.00008	-0.00007	-0.00007
	(A0 * B0 * B1 * !C1 * !Y)	0.00001	0.00002	0.00002
	(A0 * B0 * B1 * !C1 * !Y)	0.00059	0.00059	0.00059
	(A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00033	-0.00029	-0.00022
	(A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00008	-0.00007	-0.00007
	(A0 * B0 * B1 * !C0 * C1 * !Y)	0.00001	0.00002	0.00002
	(A0 * B0 * B1 * !C0 * C1 * !Y)	0.00059	0.00059	0.00059
	(A0 * !B1 * C0 * C1 * !Y)	-0.00032	-0.00027	-0.00022
	(A0 * !B1 * C0 * C1 * !Y)	-0.00009	-0.00007	-0.00007
	(A0 * !B1 * C0 * C1 * !Y)	0.00001	0.00002	0.00002
	(A0 * !B1 * C0 * C1 * !Y)	0.00060	0.00060	0.00061
	(A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00032	-0.00027	-0.00022
	(A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00009	-0.00008	-0.00007
	(A0 * !B0 * B1 * C0 * C1 * !Y)	0.00000	0.00001	0.00002
	(A0 * !B0 * B1 * C0 * C1 * !Y)	0.00060	0.00060	0.00060
	(!A0 * B0 * B1 * C0 * C1 * !Y)	-0.00044	-0.00044	-0.00044
	(!A0 * B0 * B1 * C0 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * B0 * B1 * C0 * C1 * !Y)	0.00004	0.00005	0.00005
	(!A0 * B0 * B1 * C0 * C1 * !Y)	0.00050	0.00051	0.00051
	(!A0 * B0 * B1 * !C1 * !Y)	-0.00045	-0.00044	-0.00044
	(!A0 * B0 * B1 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * B0 * B1 * !C1 * !Y)	0.00005	0.00005	0.00005
	(!A0 * B0 * B1 * !C1 * !Y)	0.00050	0.00051	0.00051
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00045	-0.00044	-0.00044
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	0.00003	0.00005	0.00006
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	0.00050	0.00050	0.00051
	(!A0 * !B1 * C0 * C1 * !Y)	-0.00045	-0.00044	-0.00044
	(!A0 * !B1 * C0 * C1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !B1 * C0 * C1 * !Y)	0.00004	0.00005	0.00005
	(!A0 * !B1 * C0 * C1 * !Y)	0.00050	0.00051	0.00051
	(!A0 * !B1 * !C1 * Y)	-0.00067	-0.00067	-0.00066
	(!A0 * !B1 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !B1 * !C1 * Y)	0.00008	0.00009	0.00009
	(!A0 * !B1 * !C1 * Y)	0.00009	0.00009	0.00009
	(!A0 * !B1 * !C0 * C1 * Y)	-0.00067	-0.00067	-0.00066
	(!A0 * !B1 * !C0 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !B1 * !C0 * C1 * Y)	0.00008	0.00009	0.00009
	(!A0 * !B1 * !C0 * C1 * Y)	0.00009	0.00009	0.00009
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00045	-0.00044	-0.00044
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	0.00005	0.00005	0.00007
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	0.00050	0.00050	0.00051
	(!A0 * !B0 * B1 * !C1 * Y)	-0.00067	-0.00067	-0.00066
	(!A0 * !B0 * B1 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !B0 * B1 * !C1 * Y)	0.00008	0.00009	0.00009
	(!A0 * !B0 * B1 * !C1 * Y)	0.00009	0.00009	0.00009
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	-0.00067	-0.00067	-0.00066
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	0.00008	0.00009	0.00009
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	0.00009	0.00009	0.00009

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X4H7H	**(A0 * B0 * B1 * C0 * C1 * !Y)**	0.00032	0.00033	0.00033
	(A0 * B0 * B1 * C0 * C1 * !Y)	0.00007	0.00007	0.00008
	(A0 * B0 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * C0 * C1 * !Y)	-0.00059	-0.00059	-0.00058
	(A0 * B0 * B1 * !C1 * !Y)	0.00033	0.00033	0.00033
	(A0 * B0 * B1 * !C1 * !Y)	0.00007	0.00007	0.00008
	(A0 * B0 * B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * B0 * B1 * !C1 * !Y)	-0.00059	-0.00059	-0.00059
	(A0 * B0 * B1 * !C0 * C1 * !Y)	0.00032	0.00033	0.00033
	(A0 * B0 * B1 * !C0 * C1 * !Y)	0.00007	0.00008	0.00008
	(A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00002	-0.00001	-0.00001
	(A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00059	-0.00059	-0.00059
	(A0 * !B1 * C0 * C1 * !Y)	0.00031	0.00032	0.00032
	(A0 * !B1 * C0 * C1 * !Y)	0.00007	0.00008	0.00009
	(A0 * !B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B1 * C0 * C1 * !Y)	-0.00060	-0.00060	-0.00059
	(A0 * !B0 * B1 * C0 * C1 * !Y)	0.00031	0.00032	0.00032
	(A0 * !B0 * B1 * C0 * C1 * !Y)	0.00007	0.00008	0.00009
	(A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00060	-0.00060	-0.00059
	(!A0 * B0 * B1 * C0 * C1 * !Y)	0.00044	0.00044	0.00045
	(!A0 * B0 * B1 * C0 * C1 * !Y)	0.00003	0.00003	0.00003
	(!A0 * B0 * B1 * C0 * C1 * !Y)	-0.00005	-0.00004	0.00003
	(!A0 * B0 * B1 * C0 * C1 * !Y)	-0.00051	-0.00049	-0.00045
	(!A0 * B0 * B1 * !C1 * !Y)	0.00044	0.00044	0.00045
	(!A0 * B0 * B1 * !C1 * !Y)	0.00003	0.00003	0.00003
	(!A0 * B0 * B1 * !C1 * !Y)	-0.00005	-0.00005	-0.00004
	(!A0 * B0 * B1 * !C1 * !Y)	-0.00051	-0.00048	-0.00045
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	0.00044	0.00044	0.00045
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	0.00003	0.00003	0.00003
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00006	-0.00005	-0.00003
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00051	-0.00048	-0.00045
	(!A0 * !B1 * C0 * C1 * !Y)	0.00044	0.00044	0.00045
	(!A0 * !B1 * C0 * C1 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !B1 * C0 * C1 * !Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !B1 * C0 * C1 * !Y)	-0.00051	-0.00048	-0.00046
	(!A0 * !B1 * !C1 * Y)	0.00067	0.00067	0.00067
	(!A0 * !B1 * !C1 * Y)	0.00003	0.00003	0.00004
	(!A0 * !B1 * !C1 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !B1 * !C1 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !B1 * !C0 * C1 * Y)	0.00067	0.00067	0.00067
	(!A0 * !B1 * !C0 * C1 * Y)	0.00003	0.00003	0.00004
	(!A0 * !B1 * !C0 * C1 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !B1 * !C0 * C1 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	0.00044	0.00044	0.00045
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00007	-0.00005	-0.00004
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00051	-0.00048	-0.00046
	(!A0 * !B0 * B1 * !C1 * Y)	0.00067	0.00067	0.00068
	(!A0 * !B0 * B1 * !C1 * Y)	0.00003	0.00003	0.00004
	(!A0 * !B0 * B1 * !C1 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !B0 * B1 * !C1 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	0.00067	0.00067	0.00068
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	0.00003	0.00003	0.00004
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	-0.00009	-0.00009	-0.00009

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X4H7H	**(A0 * A1 * B1 * C0 * C1 * !Y)**	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * C0 * C1 * !Y)	-0.00020	-0.00019	-0.00019
	(A0 * A1 * B1 * C0 * C1 * !Y)	0.00001	0.00002	0.00002
	(A0 * A1 * B1 * C0 * C1 * !Y)	0.00062	0.00063	0.00063
	(A0 * A1 * B1 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * !C1 * !Y)	-0.00015	-0.00015	-0.00015
	(A0 * A1 * B1 * !C1 * !Y)	0.00001	0.00002	0.00002
	(A0 * A1 * B1 * !C1 * !Y)	0.00062	0.00063	0.00063
	(A0 * A1 * B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * !Y)	-0.00015	-0.00015	-0.00015
	(A0 * A1 * B1 * !C0 * C1 * !Y)	0.00001	0.00002	0.00002
	(A0 * A1 * B1 * !C0 * C1 * !Y)	0.00062	0.00063	0.00063
	(A0 * A1 * !B1 * C0 * C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * C1 * !Y)	-0.00019	-0.00019	-0.00019
	(A0 * A1 * !B1 * C0 * C1 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * !B1 * C0 * C1 * !Y)	0.00054	0.00055	0.00055
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00015	-0.00015	-0.00015
	(A0 * A1 * !B1 * !C1 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * !B1 * !C1 * !Y)	0.00055	0.00055	0.00055
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00015	-0.00015	-0.00015
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00004	0.00005	0.00005
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00055	0.00055	0.00055
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	-0.00048	-0.00048	-0.00047
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	0.00005	0.00005	0.00005
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	0.00049	0.00050	0.00050
	(!A1 * B1 * C0 * C1 * !Y)	-0.00037	-0.00033	-0.00027
	(!A1 * B1 * C0 * C1 * !Y)	-0.00007	-0.00007	-0.00007
	(!A1 * B1 * C0 * C1 * !Y)	0.00001	0.00002	0.00002
	(!A1 * B1 * C0 * C1 * !Y)	0.00059	0.00060	0.00061
	(!A1 * !B1 * !C1 * Y)	-0.00052	-0.00052	-0.00052
	(!A1 * !B1 * !C1 * Y)	-0.00003	-0.00003	-0.00001
	(!A1 * !B1 * !C1 * Y)	0.00004	0.00004	0.00004
	(!A1 * !B1 * !C1 * Y)	0.00045	0.00046	0.00046
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00052	-0.00052	-0.00052
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00003	-0.00003	-0.00001
	(!A1 * !B1 * !C0 * C1 * Y)	0.00004	0.00004	0.00005
	(!A1 * !B1 * !C0 * C1 * Y)	0.00046	0.00046	0.00047
	(!A0 * A1 * B1 * C0 * C1 * !Y)	-0.00037	-0.00032	-0.00026
	(!A0 * A1 * B1 * C0 * C1 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0 * A1 * B1 * C0 * C1 * !Y)	0.00000	0.00001	0.00002
	(!A0 * A1 * B1 * C0 * C1 * !Y)	0.00059	0.00060	0.00062
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00052	-0.00052	-0.00052
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00003	-0.00003	-0.00001
	(!A0 * A1 * !B1 * !C1 * Y)	0.00004	0.00004	0.00004
	(!A0 * A1 * !B1 * !C1 * Y)	0.00045	0.00046	0.00046
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00052	-0.00052	-0.00052
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00003	-0.00002	-0.00001
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	0.00004	0.00004	0.00005
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	0.00046	0.00046	0.00047

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X4H7H	**(A0 * A1 * B1 * C0 * C1 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * C1 * !Y)	0.00019	0.00019	0.00020
	(A0 * A1 * B1 * C0 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * B1 * C0 * C1 * !Y)	-0.00063	-0.00063	-0.00062
	(A0 * A1 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C1 * !Y)	0.00016	0.00016	0.00016
	(A0 * A1 * B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * B1 * !C1 * !Y)	-0.00063	-0.00062	-0.00062
	(A0 * A1 * B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * !Y)	0.00016	0.00016	0.00016
	(A0 * A1 * B1 * !C0 * C1 * !Y)	-0.00002	-0.00001	0.00000
	(A0 * A1 * B1 * !C0 * C1 * !Y)	-0.00062	-0.00062	-0.00062
	(A0 * A1 * !B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * C1 * !Y)	0.00019	0.00019	0.00019
	(A0 * A1 * !B1 * C0 * C1 * !Y)	-0.00005	-0.00005	-0.00004
	(A0 * A1 * !B1 * C0 * C1 * !Y)	-0.00055	-0.00053	-0.00050
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * !Y)	0.00015	0.00015	0.00015
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00005	-0.00005	-0.00004
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00055	-0.00053	-0.00050
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00015	0.00015	0.00015
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00005	-0.00005	-0.00004
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00055	-0.00053	-0.00050
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	0.00047	0.00048	0.00048
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	0.00003	0.00003	0.00003
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	-0.00005	-0.00005	-0.00004
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	-0.00050	-0.00048	-0.00045
	(!A1 * B1 * C0 * C1 * !Y)	0.00037	0.00037	0.00037
	(!A1 * B1 * C0 * C1 * !Y)	0.00007	0.00007	0.00007
	(!A1 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B1 * C0 * C1 * !Y)	-0.00059	-0.00059	-0.00058
	(!A1 * !B1 * !C1 * Y)	0.00052	0.00053	0.00054
	(!A1 * !B1 * !C1 * Y)	0.00001	0.00003	0.00004
	(!A1 * !B1 * !C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * !B1 * !C1 * Y)	-0.00046	-0.00043	-0.00039
	(!A1 * !B1 * !C0 * C1 * Y)	0.00052	0.00053	0.00054
	(!A1 * !B1 * !C0 * C1 * Y)	0.00001	0.00003	0.00003
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00005	-0.00004	-0.00004
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00046	-0.00043	-0.00039
	(!A0 * A1 * B1 * C0 * C1 * !Y)	0.00037	0.00037	0.00037
	(!A0 * A1 * B1 * C0 * C1 * !Y)	0.00007	0.00007	0.00007
	(!A0 * A1 * B1 * C0 * C1 * !Y)	-0.00002	-0.00001	-0.00000
	(!A0 * A1 * B1 * C0 * C1 * !Y)	-0.00059	-0.00059	-0.00059
	(!A0 * A1 * !B1 * !C1 * Y)	0.00052	0.00053	0.00054
	(!A0 * A1 * !B1 * !C1 * Y)	0.00001	0.00003	0.00004
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00046	-0.00043	-0.00039
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	0.00052	0.00053	0.00054
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	0.00001	0.00003	0.00003
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00005	-0.00004	-0.00004
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00046	-0.00043	-0.00039

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X4H7H	**(A0 * A1 * B0 * C0 * C1 * !Y)**	-0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * C1 * !Y)	-0.00022	-0.00022	-0.00022
	(A0 * A1 * B0 * C0 * C1 * !Y)	0.00001	0.00002	0.00002
	(A0 * A1 * B0 * C0 * C1 * !Y)	0.00065	0.00066	0.00067
	(A0 * A1 * B0 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C1 * !Y)	-0.00018	-0.00018	-0.00018
	(A0 * A1 * B0 * !C1 * !Y)	0.00001	0.00002	0.00002
	(A0 * A1 * B0 * !C1 * !Y)	0.00066	0.00066	0.00066
	(A0 * A1 * B0 * !C0 * C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * C1 * !Y)	-0.00018	-0.00018	-0.00017
	(A0 * A1 * B0 * !C0 * C1 * !Y)	0.00001	0.00002	0.00002
	(A0 * A1 * B0 * !C0 * C1 * !Y)	0.00065	0.00066	0.00066
	(A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00022	-0.00021	-0.00021
	(A0 * A1 * !B0 * C0 * C1 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * !B0 * C0 * C1 * !Y)	0.00058	0.00058	0.00059
	(A0 * A1 * !B0 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C1 * !Y)	-0.00017	-0.00017	-0.00017
	(A0 * A1 * !B0 * !C1 * !Y)	0.00004	0.00005	0.00005
	(A0 * A1 * !B0 * !C1 * !Y)	0.00058	0.00058	0.00058
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00017	-0.00017	-0.00017
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00004	0.00005	0.00006
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00058	0.00058	0.00059
	(!A1 * B0 * C0 * C1 * !Y)	-0.00045	-0.00040	-0.00034
	(!A1 * B0 * C0 * C1 * !Y)	-0.00008	-0.00007	-0.00007
	(!A1 * B0 * C0 * C1 * !Y)	0.00001	0.00002	0.00002
	(!A1 * B0 * C0 * C1 * !Y)	0.00062	0.00063	0.00064
	(!A1 * !B0 * C0 * C1 * !Y)	-0.00057	-0.00056	-0.00056
	(!A1 * !B0 * C0 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * C0 * C1 * !Y)	0.00005	0.00005	0.00005
	(!A1 * !B0 * C0 * C1 * !Y)	0.00052	0.00052	0.00052
	(!A1 * !B0 * !C1 * Y)	-0.00081	-0.00081	-0.00081
	(!A1 * !B0 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * !C1 * Y)	0.00009	0.00009	0.00009
	(!A1 * !B0 * !C1 * Y)	0.00008	0.00008	0.00009
	(!A1 * !B0 * !C0 * C1 * Y)	-0.00082	-0.00081	-0.00081
	(!A1 * !B0 * !C0 * C1 * Y)	-0.00004	-0.00003	-0.00003
	(!A1 * !B0 * !C0 * C1 * Y)	0.00009	0.00009	0.00009
	(!A1 * !B0 * !C0 * C1 * Y)	0.00008	0.00008	0.00009
	(!A0 * A1 * B0 * C0 * C1 * !Y)	-0.00045	-0.00040	-0.00034
	(!A0 * A1 * B0 * C0 * C1 * !Y)	-0.00008	-0.00007	-0.00007
	(!A0 * A1 * B0 * C0 * C1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * B0 * C0 * C1 * !Y)	0.00062	0.00063	0.00063
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00057	-0.00056	-0.00056
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	0.00003	0.00005	0.00006
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	0.00052	0.00052	0.00053
	(!A0 * A1 * !B0 * !C1 * Y)	-0.00082	-0.00081	-0.00080
	(!A0 * A1 * !B0 * !C1 * Y)	-0.00004	-0.00003	-0.00003
	(!A0 * A1 * !B0 * !C1 * Y)	0.00009	0.00009	0.00009
	(!A0 * A1 * !B0 * !C1 * Y)	0.00008	0.00008	0.00009
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00082	-0.00081	-0.00081
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00004	-0.00003	-0.00003
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	0.00009	0.00009	0.00009
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	0.00008	0.00008	0.00009

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X4H7H	**(A0 * A1 * B0 * C0 * C1 * !Y)**	-0.00000	-0.00000	0.00000
	(A0 * A1 * B0 * C0 * C1 * !Y)	0.00022	0.00022	0.00022
	(A0 * A1 * B0 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B0 * C0 * C1 * !Y)	-0.00066	-0.00066	-0.00065
	(A0 * A1 * B0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C1 * !Y)	0.00018	0.00018	0.00019
	(A0 * A1 * B0 * !C1 * !Y)	-0.00002	-0.00001	-0.00001
	(A0 * A1 * B0 * !C1 * !Y)	-0.00066	-0.00066	-0.00065
	(A0 * A1 * B0 * !C0 * C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * C1 * !Y)	0.00018	0.00018	0.00019
	(A0 * A1 * B0 * !C0 * C1 * !Y)	-0.00002	-0.00001	-0.00001
	(A0 * A1 * B0 * !C0 * C1 * !Y)	-0.00066	-0.00066	-0.00065
	(A0 * A1 * !B0 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * C0 * C1 * !Y)	0.00021	0.00021	0.00022
	(A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00059	-0.00056	-0.00053
	(A0 * A1 * !B0 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C1 * !Y)	0.00017	0.00017	0.00017
	(A0 * A1 * !B0 * !C1 * !Y)	-0.00005	-0.00005	-0.00004
	(A0 * A1 * !B0 * !C1 * !Y)	-0.00058	-0.00056	-0.00053
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00017	0.00017	0.00017
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00006	-0.00005	-0.00004
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00059	-0.00056	-0.00052
	(!A1 * B0 * C0 * C1 * !Y)	0.00045	0.00045	0.00045
	(!A1 * B0 * C0 * C1 * !Y)	0.00007	0.00007	0.00008
	(!A1 * B0 * C0 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * B0 * C0 * C1 * !Y)	-0.00062	-0.00062	-0.00062
	(!A1 * !B0 * C0 * C1 * !Y)	0.00056	0.00056	0.00057
	(!A1 * !B0 * C0 * C1 * !Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * C0 * C1 * !Y)	-0.00005	-0.00005	-0.00005
	(!A1 * !B0 * C0 * C1 * !Y)	-0.00052	-0.00050	-0.00046
	(!A1 * !B0 * !C1 * Y)	0.00081	0.00081	0.00082
	(!A1 * !B0 * !C1 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * !C1 * Y)	-0.00009	-0.00009	-0.00009
	(!A1 * !B0 * !C1 * Y)	-0.00009	-0.00008	-0.00008
	(!A1 * !B0 * !C0 * C1 * Y)	0.00081	0.00081	0.00082
	(!A1 * !B0 * !C0 * C1 * Y)	0.00003	0.00003	0.00004
	(!A1 * !B0 * !C0 * C1 * Y)	-0.00009	-0.00009	-0.00008
	(!A1 * !B0 * !C0 * C1 * Y)	-0.00009	-0.00008	-0.00008
	(!A0 * A1 * B0 * C0 * C1 * !Y)	0.00045	0.00045	0.00045
	(!A0 * A1 * B0 * C0 * C1 * !Y)	0.00007	0.00007	0.00008
	(!A0 * A1 * B0 * C0 * C1 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * A1 * B0 * C0 * C1 * !Y)	-0.00062	-0.00062	-0.00062
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	0.00056	0.00056	0.00057
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00006	-0.00005	-0.00003
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00053	-0.00050	-0.00046
	(!A0 * A1 * !B0 * !C1 * Y)	0.00081	0.00081	0.00082
	(!A0 * A1 * !B0 * !C1 * Y)	0.00003	0.00003	0.00004
	(!A0 * A1 * !B0 * !C1 * Y)	-0.00009	-0.00009	-0.00008
	(!A0 * A1 * !B0 * !C1 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	0.00081	0.00081	0.00082
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	0.00003	0.00003	0.00004
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00009	-0.00009	-0.00008
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00009	-0.00008	-0.00008

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X4H7H	**(A1 * B0 * B1 * C1 * !Y)**	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C1 * !Y)	-0.00010	-0.00010	-0.00010
	(A1 * B0 * B1 * C1 * !Y)	0.00001	0.00002	0.00002
	(A1 * B0 * B1 * C1 * !Y)	0.00079	0.00080	0.00080
	(A1 * B0 * B1 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * !C1 * !Y)	-0.00010	-0.00010	-0.00009
	(A1 * B0 * B1 * !C1 * !Y)	0.00005	0.00005	0.00005
	(A1 * B0 * B1 * !C1 * !Y)	0.00073	0.00073	0.00073
	(A0 * A1 * !B1 * C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C1 * !Y)	-0.00010	-0.00010	-0.00009
	(A0 * A1 * !B1 * C1 * !Y)	0.00001	0.00002	0.00002
	(A0 * A1 * !B1 * C1 * !Y)	0.00079	0.00080	0.00080
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00010	-0.00009	-0.00009
	(A0 * A1 * !B1 * !C1 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * !B1 * !C1 * !Y)	0.00072	0.00073	0.00073
	(A0 * A1 * !B0 * B1 * C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C1 * !Y)	-0.00010	-0.00010	-0.00009
	(A0 * A1 * !B0 * B1 * C1 * !Y)	0.00001	0.00002	0.00002
	(A0 * A1 * !B0 * B1 * C1 * !Y)	0.00079	0.00080	0.00080
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00009	-0.00009	-0.00009
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00003	0.00004	0.00005
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00072	0.00073	0.00073
	(!A1 * B0 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * C1 * !Y)	-0.00009	-0.00009	-0.00009
	(!A1 * B0 * B1 * C1 * !Y)	0.00001	0.00002	0.00002
	(!A1 * B0 * B1 * C1 * !Y)	0.00079	0.00080	0.00080
	(!A1 * B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !C1 * !Y)	-0.00009	-0.00009	-0.00009
	(!A1 * B0 * B1 * !C1 * !Y)	0.00005	0.00005	0.00005
	(!A1 * B0 * B1 * !C1 * !Y)	0.00072	0.00072	0.00073
	(!A1 * !B1 * !C1 * Y)	-0.00053	-0.00052	-0.00052
	(!A1 * !B1 * !C1 * Y)	-0.00004	-0.00003	-0.00003
	(!A1 * !B1 * !C1 * Y)	0.00004	0.00004	0.00005
	(!A1 * !B1 * !C1 * Y)	0.00046	0.00046	0.00047
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00053	-0.00052	-0.00052
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00004	-0.00003	-0.00003
	(!A1 * !B0 * B1 * !C1 * Y)	0.00004	0.00004	0.00005
	(!A1 * !B0 * B1 * !C1 * Y)	0.00046	0.00046	0.00047
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00053	-0.00052	-0.00052
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00004	-0.00003	-0.00003
	(!A0 * A1 * !B1 * !C1 * Y)	0.00004	0.00004	0.00005
	(!A0 * A1 * !B1 * !C1 * Y)	0.00046	0.00046	0.00047
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00053	-0.00052	-0.00052
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00004	-0.00003	-0.00003
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	0.00004	0.00004	0.00005
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	0.00046	0.00046	0.00047

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X4H7H	**(A1 * B0 * B1 * C1 * !Y)**	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * C1 * !Y)	0.00010	0.00010	0.00010
	(A1 * B0 * B1 * C1 * !Y)	-0.00002	-0.00001	-0.00001
	(A1 * B0 * B1 * C1 * !Y)	-0.00080	-0.00079	-0.00078
	(A1 * B0 * B1 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C1 * !Y)	0.00009	0.00010	0.00010
	(A1 * B0 * B1 * !C1 * !Y)	-0.00005	-0.00005	-0.00004
	(A1 * B0 * B1 * !C1 * !Y)	-0.00073	-0.00071	-0.00068
	(A0 * A1 * !B1 * C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C1 * !Y)	0.00010	0.00010	0.00010
	(A0 * A1 * !B1 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * !B1 * C1 * !Y)	-0.00079	-0.00079	-0.00078
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * !Y)	0.00009	0.00009	0.00010
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00005	-0.00005	-0.00004
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00073	-0.00071	-0.00068
	(A0 * A1 * !B0 * B1 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C1 * !Y)	0.00010	0.00010	0.00010
	(A0 * A1 * !B0 * B1 * C1 * !Y)	-0.00002	-0.00001	-0.00001
	(A0 * A1 * !B0 * B1 * C1 * !Y)	-0.00080	-0.00079	-0.00078
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00009	0.00009	0.00009
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00005	-0.00004	-0.00003
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00073	-0.00070	-0.00067
	(!A1 * B0 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * C1 * !Y)	0.00010	0.00010	0.00010
	(!A1 * B0 * B1 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * B0 * B1 * C1 * !Y)	-0.00080	-0.00079	-0.00079
	(!A1 * B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C1 * !Y)	0.00009	0.00009	0.00009
	(!A1 * B0 * B1 * !C1 * !Y)	-0.00005	-0.00005	-0.00004
	(!A1 * B0 * B1 * !C1 * !Y)	-0.00073	-0.00071	-0.00068
	(!A1 * !B1 * !C1 * Y)	0.00053	0.00053	0.00054
	(!A1 * !B1 * !C1 * Y)	0.00003	0.00003	0.00004
	(!A1 * !B1 * !C1 * Y)	-0.00005	-0.00004	-0.00004
	(!A1 * !B1 * !C1 * Y)	-0.00046	-0.00043	-0.00040
	(!A1 * !B0 * B1 * !C1 * Y)	0.00053	0.00053	0.00054
	(!A1 * !B0 * B1 * !C1 * Y)	0.00003	0.00003	0.00004
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00005	-0.00004	-0.00004
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00046	-0.00043	-0.00040
	(!A0 * A1 * !B1 * !C1 * Y)	0.00053	0.00053	0.00054
	(!A0 * A1 * !B1 * !C1 * Y)	0.00003	0.00003	0.00004
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00005	-0.00004	-0.00004
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00046	-0.00043	-0.00040
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	0.00053	0.00053	0.00055
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	0.00003	0.00003	0.00004
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00005	-0.00004	-0.00004
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00046	-0.00043	-0.00040

Passive power(pJ) for C1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X4H7H	**(A1 * B0 * B1 * C0 * !Y)**	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C0 * !Y)	-0.00010	-0.00010	-0.00010
	(A1 * B0 * B1 * C0 * !Y)	0.00001	0.00002	0.00002
	(A1 * B0 * B1 * C0 * !Y)	0.00088	0.00088	0.00089
	(A1 * B0 * B1 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C0 * !Y)	-0.00010	-0.00010	-0.00010
	(A1 * B0 * B1 * !C0 * !Y)	0.00005	0.00005	0.00005
	(A1 * B0 * B1 * !C0 * !Y)	0.00080	0.00081	0.00081
	(A0 * A1 * !B1 * C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * !Y)	-0.00010	-0.00010	-0.00010
	(A0 * A1 * !B1 * C0 * !Y)	0.00001	0.00002	0.00002
	(A0 * A1 * !B1 * C0 * !Y)	0.00087	0.00088	0.00089
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00010	-0.00010	-0.00010
	(A0 * A1 * !B1 * !C0 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * !B1 * !C0 * !Y)	0.00080	0.00081	0.00081
	(A0 * A1 * !B0 * B1 * C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C0 * !Y)	-0.00010	-0.00010	-0.00010
	(A0 * A1 * !B0 * B1 * C0 * !Y)	0.00001	0.00002	0.00002
	(A0 * A1 * !B0 * B1 * C0 * !Y)	0.00087	0.00088	0.00089
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00010	-0.00010	-0.00009
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00005	0.00005	0.00006
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00079	0.00080	0.00081
	(!A1 * B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * C0 * !Y)	-0.00010	-0.00010	-0.00010
	(!A1 * B0 * B1 * C0 * !Y)	0.00001	0.00002	0.00002
	(!A1 * B0 * B1 * C0 * !Y)	0.00087	0.00088	0.00089
	(!A1 * B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !C0 * !Y)	-0.00010	-0.00010	-0.00010
	(!A1 * B0 * B1 * !C0 * !Y)	0.00005	0.00005	0.00005
	(!A1 * B0 * B1 * !C0 * !Y)	0.00080	0.00081	0.00081
	(!A1 * !B1 * !C0 * Y)	-0.00080	-0.00080	-0.00079
	(!A1 * !B1 * !C0 * Y)	-0.00003	-0.00003	-0.00002
	(!A1 * !B1 * !C0 * Y)	0.00009	0.00009	0.00009
	(!A1 * !B1 * !C0 * Y)	0.00008	0.00008	0.00008
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00080	-0.00080	-0.00079
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00003	-0.00003	-0.00002
	(!A1 * !B0 * B1 * !C0 * Y)	0.00009	0.00009	0.00009
	(!A1 * !B0 * B1 * !C0 * Y)	0.00008	0.00008	0.00008
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00080	-0.00080	-0.00079
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * A1 * !B1 * !C0 * Y)	0.00009	0.00009	0.00009
	(!A0 * A1 * !B1 * !C0 * Y)	0.00008	0.00008	0.00008
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00080	-0.00080	-0.00079
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	0.00009	0.00009	0.00009
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	0.00008	0.00008	0.00008

Passive power(pJ) for C1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

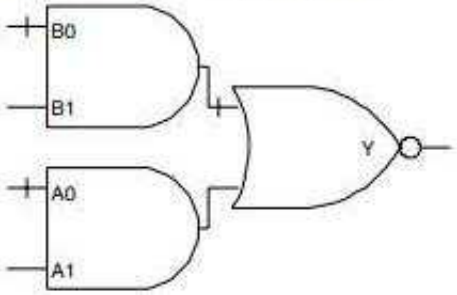
AOI222X4H7H	**(A1 * B0 * B1 * C0 * !Y)**	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C0 * !Y)	0.00011	0.00011	0.00011
	(A1 * B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * C0 * !Y)	-0.00088	-0.00088	-0.00088
	(A1 * B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * !C0 * !Y)	0.00010	0.00010	0.00010
	(A1 * B0 * B1 * !C0 * !Y)	-0.00005	-0.00005	-0.00005
	(A1 * B0 * B1 * !C0 * !Y)	-0.00081	-0.00078	-0.00075
	(A0 * A1 * !B1 * C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * !Y)	0.00011	0.00011	0.00011
	(A0 * A1 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * C0 * !Y)	-0.00088	-0.00087	-0.00087
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * !Y)	0.00010	0.00010	0.00010
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00081	-0.00078	-0.00075
	(A0 * A1 * !B0 * B1 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C0 * !Y)	0.00010	0.00011	0.00011
	(A0 * A1 * !B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * B1 * C0 * !Y)	-0.00088	-0.00087	-0.00086
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00010	0.00010	0.00010
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00006	-0.00005	-0.00005
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00081	-0.00078	-0.00075
	(!A1 * B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * C0 * !Y)	0.00010	0.00011	0.00011
	(!A1 * B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * C0 * !Y)	-0.00088	-0.00088	-0.00087
	(!A1 * B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C0 * !Y)	0.00010	0.00010	0.00010
	(!A1 * B0 * B1 * !C0 * !Y)	-0.00005	-0.00005	-0.00005
	(!A1 * B0 * B1 * !C0 * !Y)	-0.00081	-0.00078	-0.00075
	(!A1 * !B1 * !C0 * Y)	0.00080	0.00080	0.00081
	(!A1 * !B1 * !C0 * Y)	0.00002	0.00003	0.00003
	(!A1 * !B1 * !C0 * Y)	-0.00009	-0.00009	-0.00008
	(!A1 * !B1 * !C0 * Y)	-0.00008	-0.00008	-0.00007
	(!A1 * !B0 * B1 * !C0 * Y)	0.00080	0.00080	0.00080
	(!A1 * !B0 * B1 * !C0 * Y)	0.00002	0.00003	0.00003
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00009	-0.00009	-0.00008
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00008	-0.00008	-0.00007
	(!A0 * A1 * !B1 * !C0 * Y)	0.00080	0.00080	0.00080
	(!A0 * A1 * !B1 * !C0 * Y)	0.00002	0.00003	0.00003
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00009	-0.00009	-0.00008
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00008	-0.00008	-0.00007
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	0.00080	0.00080	0.00080
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00009	-0.00009	-0.00008
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00008	-0.00008	-0.00007

AOI22X0P5H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI22 cell provides the logical inverted OR of two AND groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	Y
0	x	0	x	1
0	x	1	0	1
x	x	1	1	0
1	0	0	x	1
1	0	1	0	1
1	1	x	x	0

Footprint

Cell Name	Area
AOI22X0P5H7H	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	B1	Y
AOI22X0P5H7H	0.00076	0.00087	0.00092	0.00083	0.01482

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI22X0P5H7H	0.00000	0.01030	0.01676

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI22X0P5H7H	A0->Y (FR)	0.07647	0.25599	0.75719
	A1->Y (FR)	0.07208	0.25004	0.75211
	B0->Y (FR)	0.05915	0.22974	0.72903
	B1->Y (FR)	0.06363	0.23582	0.73367

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI22X0P5H7H	A0->Y (RF)	0.04708	0.17940	0.57071
	A1->Y (RF)	0.04594	0.17701	0.58234
	B0->Y (RF)	0.03629	0.16250	0.57062
	B1->Y (RF)	0.03759	0.16571	0.55782

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI22X0P5H7H	A0	0.00143	0.00145	0.00146
	A0	-0.00013	-0.00013	-0.00012
	A0	0.00012	0.00012	0.00012
	A0	-0.00007	-0.00006	-0.00005
	A1	0.00132	0.00136	0.00138
	A1	-0.00013	-0.00013	-0.00012
	A1	0.00008	0.00008	0.00009
	A1	-0.00002	0.00001	0.00003
	B0	0.00089	0.00092	0.00096
	B0	-0.00005	-0.00005	-0.00004
	B0	0.00008	0.00008	0.00009
	B0	-0.00012	-0.00007	-0.00004
	B1	0.00098	0.00103	0.00105
	B1	-0.00005	-0.00005	-0.00002
	B1	0.00012	0.00012	0.00012
	B1	-0.00016	-0.00013	-0.00011

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI22X0P5H7H	A0	-0.00009	-0.00007	-0.00006
	A0	0.00014	0.00014	0.00014
	A0	-0.00008	-0.00008	-0.00008
	A0	0.00137	0.00140	0.00142
	A1	-0.00011	-0.00008	-0.00006
	A1	0.00014	0.00014	0.00014
	A1	-0.00005	-0.00005	-0.00005
	A1	0.00117	0.00120	0.00123
	B0	-0.00009	-0.00005	-0.00002
	B0	0.00005	0.00005	0.00005
	B0	-0.00005	-0.00005	-0.00004
	B0	0.00093	0.00097	0.00100
	B1	-0.00009	-0.00005	-0.00003
	B1	0.00005	0.00005	0.00005
	B1	-0.00008	-0.00008	-0.00008
	B1	0.00112	0.00115	0.00118

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X0P5H7H	(A1 * B0 * B1 * !Y)	-0.00010	-0.00008	-0.00006
	(A1 * B0 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !Y)	0.00028	0.00028	0.00029
	(!A1 * B0 * B1 * !Y)	-0.00014	-0.00014	-0.00014
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	0.00024	0.00024	0.00024
	(!A1 * B0 * !B1 * Y)	-0.00014	-0.00014	-0.00014
	(!A1 * B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !B1 * Y)	0.00024	0.00024	0.00024
	(!A1 * !B0 * Y)	-0.00014	-0.00014	-0.00014
	(!A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * Y)	0.00024	0.00024	0.00024

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X0P5H7H	(A1 * B0 * B1 * !Y)	0.00010	0.00010	0.00010
	(A1 * B0 * B1 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * !Y)	-0.00028	-0.00028	-0.00028
	(!A1 * B0 * B1 * !Y)	0.00014	0.00014	0.00014
	(!A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !Y)	-0.00024	-0.00023	-0.00022
	(!A1 * B0 * !B1 * Y)	0.00014	0.00015	0.00015
	(!A1 * B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !B1 * Y)	-0.00024	-0.00023	-0.00022
	(!A1 * !B0 * Y)	0.00014	0.00015	0.00015
	(!A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * Y)	-0.00024	-0.00023	-0.00022

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X0P5H7H	(A0 * B0 * B1 * !Y)	-0.00011	-0.00009	-0.00006
	(A0 * B0 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !Y)	0.00024	0.00024	0.00025
	(!A0 * B0 * B1 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * !Y)	0.00020	0.00020	0.00020
	(!A0 * B0 * !B1 * Y)	-0.00024	-0.00024	-0.00024
	(!A0 * B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !B1 * Y)	0.00003	0.00003	0.00003
	(!A0 * B0 * !B1 * Y)	0.00005	0.00006	0.00006
	(!A0 * !B0 * Y)	-0.00024	-0.00024	-0.00024
	(!A0 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !B0 * Y)	0.00005	0.00006	0.00006

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X0P5H7H	(A0 * B0 * B1 * !Y)	0.00011	0.00011	0.00011
	(A0 * B0 * B1 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * !Y)	-0.00024	-0.00024	-0.00024
	(!A0 * B0 * B1 * !Y)	0.00016	0.00016	0.00016
	(!A0 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * !Y)	-0.00020	-0.00019	-0.00018
	(!A0 * B0 * !B1 * Y)	0.00024	0.00024	0.00024
	(!A0 * B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * !B1 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * B0 * !B1 * Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !B0 * Y)	0.00024	0.00024	0.00024
	(!A0 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !B0 * Y)	-0.00006	-0.00006	-0.00005

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X0P5H7H	(A0 * A1 * B1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !Y)	0.00032	0.00033	0.00033
	(A0 * A1 * !B1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !Y)	0.00030	0.00030	0.00030
	(!A1 * !B1 * Y)	-0.00028	-0.00028	-0.00028
	(!A1 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * Y)	0.00002	0.00003	0.00003
	(!A1 * !B1 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * !B1 * Y)	-0.00028	-0.00028	-0.00028
	(!A0 * A1 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * Y)	0.00002	0.00003	0.00003
	(!A0 * A1 * !B1 * Y)	0.00003	0.00003	0.00003

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X0P5H7H	(A0 * A1 * B1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * !Y)	-0.00033	-0.00032	-0.00032
	(A0 * A1 * !B1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !Y)	-0.00030	-0.00029	-0.00028
	(!A1 * !B1 * Y)	0.00028	0.00028	0.00028
	(!A1 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * !B1 * Y)	0.00028	0.00028	0.00028
	(!A0 * A1 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B1 * Y)	-0.00003	-0.00003	-0.00003

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X0P5H7H	(A0 * A1 * B0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !Y)	0.00034	0.00034	0.00034
	(A0 * A1 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * !Y)	0.00032	0.00032	0.00032
	(!A1 * !B0 * Y)	-0.00020	-0.00020	-0.00020
	(!A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * Y)	0.00020	0.00020	0.00021
	(!A0 * A1 * !B0 * Y)	-0.00020	-0.00020	-0.00020
	(!A0 * A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * Y)	0.00020	0.00020	0.00021

Passive power(pJ) for B1 falling (conditional):

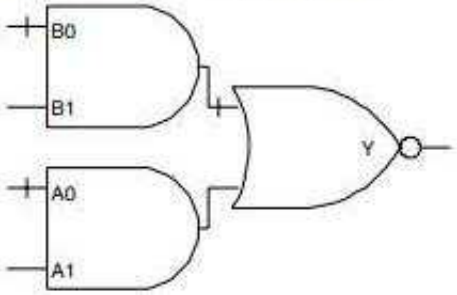
Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X0P5H7H	(A0 * A1 * B0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B0 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * !Y)	-0.00034	-0.00034	-0.00034
	(A0 * A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * !Y)	-0.00032	-0.00031	-0.00030
	(!A1 * !B0 * Y)	0.00020	0.00020	0.00021
	(!A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * Y)	-0.00020	-0.00019	-0.00018
	(!A0 * A1 * !B0 * Y)	0.00020	0.00020	0.00021
	(!A0 * A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * Y)	-0.00020	-0.00019	-0.00018

AOI22X0P7H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI22 cell provides the logical inverted OR of two AND groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	Y
0	x	0	x	1
0	x	1	0	1
x	x	1	1	0
1	0	0	x	1
1	0	1	0	1
1	1	x	x	0

Footprint

Cell Name	Area
AOI22X0P7H7H	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	B1	Y
AOI22X0P7H7H	0.00082	0.00090	0.00094	0.00088	0.01692

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI22X0P7H7H	0.00000	0.01169	0.01596

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI22X0P7H7H	A0->Y (FR)	0.07186	0.25247	0.75772
	A1->Y (FR)	0.06715	0.24578	0.75225
	B0->Y (FR)	0.05393	0.22541	0.72913
	B1->Y (FR)	0.05895	0.23226	0.73525

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI22X0P7H7H	A0->Y (RF)	0.04535	0.18020	0.57999
	A1->Y (RF)	0.04306	0.17548	0.58637
	B0->Y (RF)	0.03284	0.16015	0.57379
	B1->Y (RF)	0.03518	0.16546	0.56715

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI22X0P7H7H	A0	0.00155	0.00157	0.00159
	A0	-0.00015	-0.00015	-0.00015
	A0	0.00014	0.00014	0.00014
	A0	-0.00007	-0.00006	-0.00004
	A1	0.00140	0.00144	0.00147
	A1	-0.00015	-0.00015	-0.00015
	A1	0.00010	0.00010	0.00011
	A1	-0.00005	-0.00001	0.00002
	B0	0.00095	0.00099	0.00103
	B0	-0.00006	-0.00006	-0.00005
	B0	0.00010	0.00010	0.00010
	B0	-0.00012	-0.00008	-0.00004
	B1	0.00106	0.00110	0.00113
	B1	-0.00006	-0.00006	-0.00005
	B1	0.00014	0.00014	0.00014
	B1	-0.00017	-0.00014	-0.00012

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI22X0P7H7H	A0	-0.00011	-0.00008	-0.00007
	A0	0.00016	0.00016	0.00016
	A0	-0.00010	-0.00010	-0.00010
	A0	0.00148	0.00151	0.00153
	A1	-0.00012	-0.00009	-0.00006
	A1	0.00016	0.00016	0.00016
	A1	-0.00005	-0.00005	-0.00005
	A1	0.00126	0.00130	0.00133
	B0	-0.00012	-0.00008	-0.00005
	B0	0.00006	0.00006	0.00006
	B0	-0.00005	-0.00005	-0.00005
	B0	0.00098	0.00101	0.00105
	B1	-0.00010	-0.00006	-0.00004
	B1	0.00006	0.00006	0.00006
	B1	-0.00010	-0.00010	-0.00010
	B1	0.00120	0.00123	0.00126

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X0P7H7H	(A1 * B0 * B1 * !Y)	-0.00012	-0.00010	-0.00007
	(A1 * B0 * B1 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00001
	(A1 * B0 * B1 * !Y)	0.00027	0.00028	0.00028
	(!A1 * B0 * B1 * !Y)	-0.00017	-0.00017	-0.00017
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !Y)	0.00001	0.00002	0.00002
	(!A1 * B0 * B1 * !Y)	0.00023	0.00023	0.00023
	(!A1 * B0 * !B1 * Y)	-0.00017	-0.00017	-0.00017
	(!A1 * B0 * !B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !B1 * Y)	0.00023	0.00023	0.00024
	(!A1 * !B0 * Y)	-0.00017	-0.00017	-0.00017
	(!A1 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * Y)	0.00023	0.00023	0.00024

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X0P7H7H	(A1 * B0 * B1 * !Y)	0.00012	0.00012	0.00012
	(A1 * B0 * B1 * !Y)	0.00003	0.00003	0.00003
	(A1 * B0 * B1 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * !Y)	-0.00027	-0.00027	-0.00027
	(!A1 * B0 * B1 * !Y)	0.00017	0.00017	0.00017
	(!A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * B0 * B1 * !Y)	-0.00023	-0.00022	-0.00021
	(!A1 * B0 * !B1 * Y)	0.00017	0.00018	0.00018
	(!A1 * B0 * !B1 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !B1 * Y)	-0.00023	-0.00022	-0.00021
	(!A1 * !B0 * Y)	0.00017	0.00018	0.00019
	(!A1 * !B0 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * Y)	-0.00023	-0.00022	-0.00021

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X0P7H7H	(A0 * B0 * B1 * !Y)	-0.00011	-0.00009	-0.00007
	(A0 * B0 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * B1 * !Y)	0.00000	0.00001	0.00001
	(A0 * B0 * B1 * !Y)	0.00027	0.00027	0.00028
	(!A0 * B0 * B1 * !Y)	-0.00015	-0.00015	-0.00015
	(!A0 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * B0 * B1 * !Y)	0.00023	0.00023	0.00023
	(!A0 * B0 * !B1 * Y)	-0.00025	-0.00025	-0.00025
	(!A0 * B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !B1 * Y)	0.00003	0.00003	0.00003
	(!A0 * B0 * !B1 * Y)	0.00006	0.00006	0.00006
	(!A0 * !B0 * Y)	-0.00025	-0.00025	-0.00025
	(!A0 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !B0 * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X0P7H7H	(A0 * B0 * B1 * !Y)	0.00011	0.00011	0.00011
	(A0 * B0 * B1 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * !Y)	-0.00027	-0.00027	-0.00027
	(!A0 * B0 * B1 * !Y)	0.00015	0.00015	0.00015
	(!A0 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * B0 * B1 * !Y)	-0.00023	-0.00022	-0.00021
	(!A0 * B0 * !B1 * Y)	0.00025	0.00025	0.00025
	(!A0 * B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * B0 * !B1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !B0 * Y)	0.00025	0.00025	0.00025
	(!A0 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !B0 * Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X0P7H7H	(A0 * A1 * B1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !Y)	0.00032	0.00032	0.00033
	(A0 * A1 * !B1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B1 * !Y)	0.00001	0.00002	0.00002
	(A0 * A1 * !B1 * !Y)	0.00030	0.00030	0.00030
	(!A1 * !B1 * Y)	-0.00030	-0.00030	-0.00030
	(!A1 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B1 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * !B1 * Y)	-0.00030	-0.00030	-0.00030
	(!A0 * A1 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * !B1 * Y)	0.00003	0.00003	0.00003

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X0P7H7H	(A0 * A1 * B1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !Y)	0.00003	0.00003	0.00004
	(A0 * A1 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * !Y)	-0.00033	-0.00032	-0.00031
	(A0 * A1 * !B1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B1 * !Y)	-0.00002	-0.00001	-0.00001
	(A0 * A1 * !B1 * !Y)	-0.00030	-0.00029	-0.00028
	(!A1 * !B1 * Y)	0.00030	0.00030	0.00030
	(!A1 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * !B1 * Y)	0.00030	0.00030	0.00030
	(!A0 * A1 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * !B1 * Y)	-0.00003	-0.00003	-0.00003

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X0P7H7H	(A0 * A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !Y)	0.00035	0.00036	0.00036
	(A0 * A1 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B0 * !Y)	0.00001	0.00002	0.00002
	(A0 * A1 * !B0 * !Y)	0.00033	0.00033	0.00033
	(!A1 * !B0 * Y)	-0.00021	-0.00021	-0.00021
	(!A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * Y)	0.00021	0.00021	0.00021
	(!A0 * A1 * !B0 * Y)	-0.00021	-0.00021	-0.00021
	(!A0 * A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * !B0 * Y)	0.00021	0.00021	0.00021

Passive power(pJ) for B1 falling (conditional):

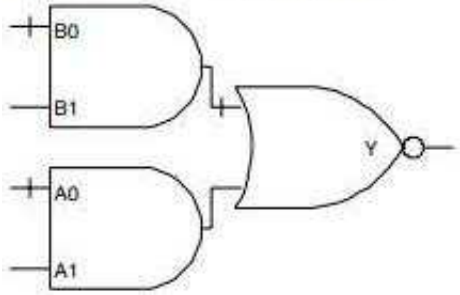
Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X0P7H7H	(A0 * A1 * B0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * !Y)	-0.00036	-0.00035	-0.00035
	(A0 * A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * !B0 * !Y)	-0.00033	-0.00032	-0.00031
	(!A1 * !B0 * Y)	0.00021	0.00022	0.00022
	(!A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * Y)	-0.00002	-0.00001	-0.00001
	(!A1 * !B0 * Y)	-0.00021	-0.00020	-0.00019
	(!A0 * A1 * !B0 * Y)	0.00021	0.00022	0.00022
	(!A0 * A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * A1 * !B0 * Y)	-0.00021	-0.00020	-0.00019

AOI22X1H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI22 cell provides the logical inverted OR of two AND groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	Y
0	x	0	x	1
0	x	1	0	1
x	x	1	1	0
1	0	0	x	1
1	0	1	0	1
1	1	x	x	0

Footprint

Cell Name	Area
AOI22X1H7H	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	B1	Y
AOI22X1H7H	0.00088	0.00091	0.00093	0.00100	0.02036

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI22X1H7H	0.00000	0.01490	0.02317

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI22X1H7H	A0->Y (FR)	0.06463	0.24661	0.75842
	A1->Y (FR)	0.05929	0.23946	0.75202
	B0->Y (FR)	0.05161	0.22659	0.73735
	B1->Y (FR)	0.04744	0.22050	0.73143

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI22X1H7H	A0->Y (RF)	0.04256	0.18202	0.59636
	A1->Y (RF)	0.03953	0.17570	0.59854
	B0->Y (RF)	0.03212	0.16698	0.58388
	B1->Y (RF)	0.03016	0.16118	0.58684

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI22X1H7H	A0	0.00169	0.00171	0.00173
	A0	-0.00019	-0.00019	-0.00018
	A0	0.00016	0.00017	0.00017
	A0	-0.00009	-0.00007	-0.00006
	A1	0.00151	0.00155	0.00157
	A1	-0.00021	-0.00019	-0.00019
	A1	0.00011	0.00012	0.00012
	A1	-0.00006	-0.00003	0.00000
	B0	0.00113	0.00117	0.00120
	B0	-0.00007	-0.00007	-0.00007
	B0	0.00016	0.00017	0.00017
	B0	-0.00019	-0.00016	-0.00014
	B1	0.00100	0.00104	0.00109
	B1	-0.00007	-0.00007	-0.00006
	B1	0.00011	0.00011	0.00012
	B1	-0.00014	-0.00010	-0.00006

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI22X1H7H	A0	-0.00013	-0.00010	-0.00008
	A0	0.00019	0.00020	0.00020
	A0	-0.00011	-0.00011	-0.00011
	A0	0.00159	0.00165	0.00167
	A1	-0.00013	-0.00010	-0.00008
	A1	0.00019	0.00019	0.00021
	A1	-0.00006	-0.00006	-0.00006
	A1	0.00134	0.00140	0.00144
	B0	-0.00012	-0.00008	-0.00006
	B0	0.00007	0.00007	0.00007
	B0	-0.00011	-0.00011	-0.00011
	B0	0.00128	0.00131	0.00134
	B1	-0.00014	-0.00009	-0.00006
	B1	0.00006	0.00007	0.00008
	B1	-0.00006	-0.00006	-0.00006
	B1	0.00102	0.00108	0.00111

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X1H7H	(A1 * B0 * B1 * !Y)	-0.00014	-0.00012	-0.00009
	(A1 * B0 * B1 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * B1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * B1 * !Y)	0.00028	0.00029	0.00029
	(!A1 * B0 * B1 * !Y)	-0.00020	-0.00020	-0.00020
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * B1 * !Y)	0.00024	0.00024	0.00024
	(!A1 * !B1 * Y)	-0.00020	-0.00020	-0.00020
	(!A1 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B1 * Y)	0.00024	0.00024	0.00025
	(!A1 * !B0 * B1 * Y)	-0.00020	-0.00020	-0.00020
	(!A1 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * B1 * Y)	0.00024	0.00024	0.00025

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X1H7H	(A1 * B0 * B1 * !Y)	0.00014	0.00014	0.00014
	(A1 * B0 * B1 * !Y)	0.00003	0.00003	0.00003
	(A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * B1 * !Y)	-0.00028	-0.00028	-0.00028
	(!A1 * B0 * B1 * !Y)	0.00020	0.00020	0.00020
	(!A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * B1 * !Y)	-0.00024	-0.00023	-0.00022
	(!A1 * !B1 * Y)	0.00020	0.00020	0.00021
	(!A1 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B1 * Y)	-0.00024	-0.00023	-0.00022
	(!A1 * !B0 * B1 * Y)	0.00020	0.00020	0.00021
	(!A1 * !B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * B1 * Y)	-0.00024	-0.00023	-0.00022

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X1H7H	(A0 * B0 * B1 * !Y)	-0.00013	-0.00011	-0.00008
	(A0 * B0 * B1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * B1 * !Y)	0.00000	0.00001	0.00001
	(A0 * B0 * B1 * !Y)	0.00026	0.00027	0.00027
	(!A0 * B0 * B1 * !Y)	-0.00018	-0.00018	-0.00018
	(!A0 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * B0 * B1 * !Y)	0.00022	0.00022	0.00022
	(!A0 * !B1 * Y)	-0.00026	-0.00026	-0.00026
	(!A0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * Y)	0.00003	0.00003	0.00004
	(!A0 * !B1 * Y)	0.00005	0.00006	0.00006
	(!A0 * !B0 * B1 * Y)	-0.00026	-0.00026	-0.00026
	(!A0 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * B1 * Y)	0.00003	0.00003	0.00004
	(!A0 * !B0 * B1 * Y)	0.00005	0.00006	0.00006

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X1H7H	(A0 * B0 * B1 * !Y)	0.00013	0.00013	0.00013
	(A0 * B0 * B1 * !Y)	0.00003	0.00003	0.00003
	(A0 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * B1 * !Y)	-0.00026	-0.00026	-0.00026
	(!A0 * B0 * B1 * !Y)	0.00018	0.00018	0.00018
	(!A0 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * B0 * B1 * !Y)	-0.00022	-0.00021	-0.00020
	(!A0 * !B1 * Y)	0.00026	0.00026	0.00026
	(!A0 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !B1 * Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !B0 * B1 * Y)	0.00026	0.00026	0.00026
	(!A0 * !B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !B0 * B1 * Y)	-0.00006	-0.00006	-0.00005

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X1H7H	(A0 * A1 * B1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * B1 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B1 * !Y)	0.00037	0.00037	0.00037
	(A0 * A1 * !B1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B1 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * !B1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B1 * !Y)	0.00034	0.00034	0.00034
	(!A1 * !B1 * Y)	-0.00023	-0.00022	-0.00022
	(!A1 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B1 * Y)	0.00023	0.00023	0.00023
	(!A0 * A1 * !B1 * Y)	-0.00023	-0.00022	-0.00022
	(!A0 * A1 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B1 * Y)	0.00023	0.00023	0.00023

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X1H7H	(A0 * A1 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * B1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * B1 * !Y)	-0.00037	-0.00037	-0.00037
	(A0 * A1 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * !B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B1 * !Y)	-0.00034	-0.00033	-0.00032
	(!A1 * !B1 * Y)	0.00023	0.00023	0.00023
	(!A1 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B1 * Y)	-0.00023	-0.00022	-0.00020
	(!A0 * A1 * !B1 * Y)	0.00023	0.00023	0.00023
	(!A0 * A1 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B1 * Y)	-0.00023	-0.00022	-0.00020

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X1H7H	(A0 * A1 * B0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * B0 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B0 * !Y)	0.00034	0.00035	0.00035
	(A0 * A1 * !B0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * !B0 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * !Y)	0.00032	0.00032	0.00032
	(!A1 * !B0 * Y)	-0.00032	-0.00032	-0.00032
	(!A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * !B0 * Y)	-0.00032	-0.00032	-0.00032
	(!A0 * A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * !B0 * Y)	0.00003	0.00003	0.00003

Passive power(pJ) for B1 falling (conditional):

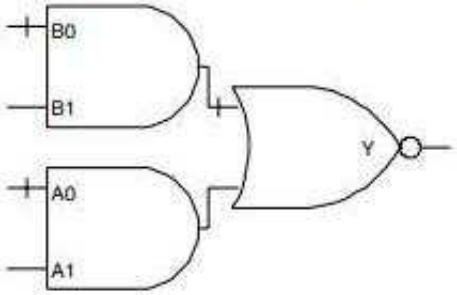
Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X1H7H	(A0 * A1 * B0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * B0 * !Y)	-0.00035	-0.00035	-0.00034
	(A0 * A1 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * !Y)	-0.00032	-0.00031	-0.00029
	(!A1 * !B0 * Y)	0.00032	0.00032	0.00032
	(!A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * !B0 * Y)	0.00032	0.00032	0.00033
	(!A0 * A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * !B0 * Y)	-0.00003	-0.00003	-0.00003

AOI22X1P4H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI22 cell provides the logical inverted OR of two AND groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	Y
0	x	0	x	1
0	x	1	0	1
x	x	1	1	0
1	0	0	x	1
1	0	1	0	1
1	1	x	x	0

Footprint

Cell Name	Area
AOI22X1P4H7H	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	B1	Y
AOI22X1P4H7H	0.00095	0.00098	0.00108	0.00099	0.02317

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI22X1P4H7H	0.00000	0.01912	0.03453

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI22X1P4H7H	A0->Y (FR)	0.06119	0.24386	0.75895
	A1->Y (FR)	0.05589	0.23674	0.75158
	B0->Y (FR)	0.04452	0.21840	0.73180
	B1->Y (FR)	0.04871	0.22450	0.73805

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI22X1P4H7H	A0->Y (RF)	0.04068	0.18134	0.60060
	A1->Y (RF)	0.03758	0.17452	0.60109
	B0->Y (RF)	0.02815	0.15966	0.58922
	B1->Y (RF)	0.03052	0.16649	0.58820

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI22X1P4H7H	A0	0.00184	0.00187	0.00189
	A0	-0.00022	-0.00022	-0.00021
	A0	0.00019	0.00019	0.00019
	A0	-0.00011	-0.00009	-0.00008
	A1	0.00165	0.00168	0.00171
	A1	-0.00022	-0.00022	-0.00022
	A1	0.00010	0.00013	0.00013
	A1	-0.00009	-0.00005	-0.00001
	B0	0.00107	0.00114	0.00119
	B0	-0.00009	-0.00008	-0.00008
	B0	0.00013	0.00013	0.00013
	B0	-0.00015	-0.00010	-0.00006
	B1	0.00123	0.00128	0.00131
	B1	-0.00009	-0.00008	-0.00007
	B1	0.00019	0.00019	0.00019
	B1	-0.00020	-0.00017	-0.00014

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI22X1P4H7H	A0	-0.00014	-0.00011	-0.00009
	A0	0.00023	0.00023	0.00023
	A0	-0.00013	-0.00013	-0.00013
	A0	0.00174	0.00181	0.00183
	A1	-0.00015	-0.00011	-0.00009
	A1	0.00023	0.00023	0.00023
	A1	-0.00007	-0.00007	-0.00007
	A1	0.00147	0.00153	0.00157
	B0	-0.00016	-0.00011	-0.00008
	B0	0.00008	0.00008	0.00009
	B0	-0.00007	-0.00007	-0.00007
	B0	0.00112	0.00116	0.00120
	B1	-0.00014	-0.00010	-0.00007
	B1	0.00008	0.00009	0.00009
	B1	-0.00013	-0.00013	-0.00013
	B1	0.00138	0.00142	0.00145

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X1P4H7H	(A1 * B0 * B1 * !Y)	-0.00015	-0.00013	-0.00010
	(A1 * B0 * B1 * !Y)	-0.00004	-0.00003	-0.00003
	(A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !Y)	0.00029	0.00030	0.00030
	(!A1 * B0 * B1 * !Y)	-0.00022	-0.00022	-0.00022
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * B1 * !Y)	0.00025	0.00025	0.00025
	(!A1 * B0 * !B1 * Y)	-0.00022	-0.00022	-0.00022
	(!A1 * B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !B1 * Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * !B1 * Y)	0.00025	0.00026	0.00026
	(!A1 * !B0 * Y)	-0.00022	-0.00022	-0.00022
	(!A1 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * Y)	0.00025	0.00026	0.00026

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X1P4H7H	(A1 * B0 * B1 * !Y)	0.00015	0.00015	0.00015
	(A1 * B0 * B1 * !Y)	0.00003	0.00004	0.00004
	(A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !Y)	-0.00029	-0.00029	-0.00029
	(!A1 * B0 * B1 * !Y)	0.00022	0.00022	0.00022
	(!A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * B1 * !Y)	-0.00025	-0.00024	-0.00023
	(!A1 * B0 * !B1 * Y)	0.00022	0.00022	0.00023
	(!A1 * B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * !B1 * Y)	-0.00025	-0.00024	-0.00022
	(!A1 * !B0 * Y)	0.00022	0.00023	0.00023
	(!A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * Y)	-0.00025	-0.00024	-0.00023

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X1P4H7H	(A0 * B0 * B1 * !Y)	-0.00014	-0.00012	-0.00010
	(A0 * B0 * B1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * !Y)	0.00027	0.00028	0.00028
	(!A0 * B0 * B1 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * B0 * B1 * !Y)	0.00023	0.00023	0.00023
	(!A0 * B0 * !B1 * Y)	-0.00029	-0.00029	-0.00028
	(!A0 * B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !B1 * Y)	0.00004	0.00004	0.00004
	(!A0 * B0 * !B1 * Y)	0.00005	0.00005	0.00005
	(!A0 * !B0 * Y)	-0.00029	-0.00029	-0.00028
	(!A0 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !B0 * Y)	0.00005	0.00005	0.00005

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X1P4H7H	(A0 * B0 * B1 * !Y)	0.00014	0.00014	0.00014
	(A0 * B0 * B1 * !Y)	0.00003	0.00003	0.00003
	(A0 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * !Y)	-0.00028	-0.00027	-0.00027
	(!A0 * B0 * B1 * !Y)	0.00020	0.00020	0.00020
	(!A0 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * B0 * B1 * !Y)	-0.00023	-0.00022	-0.00021
	(!A0 * B0 * !B1 * Y)	0.00029	0.00029	0.00029
	(!A0 * B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * !B1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * B0 * !B1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !B0 * Y)	0.00029	0.00029	0.00029
	(!A0 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !B0 * Y)	-0.00005	-0.00005	-0.00005

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X1P4H7H	(A0 * A1 * B1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * !Y)	-0.00005	-0.00005	-0.00004
	(A0 * A1 * B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B1 * !Y)	0.00036	0.00037	0.00037
	(A0 * A1 * !B1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B1 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * !B1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B1 * !Y)	0.00033	0.00033	0.00033
	(!A1 * !B1 * Y)	-0.00035	-0.00035	-0.00035
	(!A1 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * Y)	0.00004	0.00004	0.00004
	(!A1 * !B1 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * !B1 * Y)	-0.00035	-0.00035	-0.00035
	(!A0 * A1 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * Y)	0.00004	0.00004	0.00004
	(!A0 * A1 * !B1 * Y)	0.00003	0.00003	0.00003

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X1P4H7H	(A0 * A1 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B1 * !Y)	-0.00037	-0.00036	-0.00036
	(A0 * A1 * !B1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * !B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B1 * !Y)	-0.00033	-0.00032	-0.00031
	(!A1 * !B1 * Y)	0.00035	0.00035	0.00035
	(!A1 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * Y)	-0.00004	-0.00003	-0.00003
	(!A1 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * !B1 * Y)	0.00035	0.00035	0.00036
	(!A0 * A1 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * Y)	-0.00004	-0.00003	-0.00003
	(!A0 * A1 * !B1 * Y)	-0.00003	-0.00003	-0.00003

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X1P4H7H	(A0 * A1 * B0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B0 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * !Y)	0.00039	0.00039	0.00039
	(A0 * A1 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * !B0 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * !Y)	0.00035	0.00036	0.00036
	(!A1 * !B0 * Y)	-0.00025	-0.00025	-0.00025
	(!A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * Y)	0.00024	0.00024	0.00024
	(!A0 * A1 * !B0 * Y)	-0.00025	-0.00025	-0.00025
	(!A0 * A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B0 * Y)	0.00024	0.00024	0.00024

Passive power(pJ) for B1 falling (conditional):

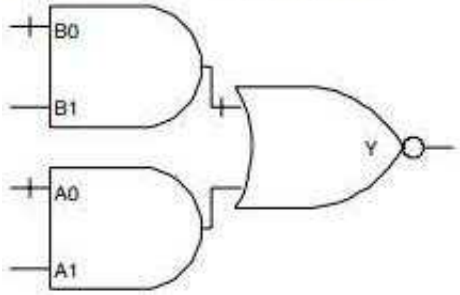
Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X1P4H7H	(A0 * A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B0 * !Y)	-0.00039	-0.00039	-0.00038
	(A0 * A1 * !B0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * !Y)	-0.00036	-0.00035	-0.00034
	(!A1 * !B0 * Y)	0.00025	0.00025	0.00026
	(!A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * Y)	-0.00024	-0.00023	-0.00021
	(!A0 * A1 * !B0 * Y)	0.00025	0.00025	0.00026
	(!A0 * A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B0 * Y)	-0.00024	-0.00023	-0.00021

AOI22X2H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI22 cell provides the logical inverted OR of two AND groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	Y
0	x	0	x	1
0	x	1	0	1
x	x	1	1	0
1	0	0	x	1
1	0	1	0	1
1	1	x	x	0

Footprint

Cell Name	Area
AOI22X2H7H	3.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	B1	Y
AOI22X2H7H	0.00164	0.00177	0.00168	0.00159	0.02970

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI22X2H7H	0.00000	0.02060	0.03352

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI22X2H7H	A0->Y (FR)	0.05026	0.22219	0.72959
	A1->Y (FR)	0.05686	0.23027	0.73552
	B0->Y (FR)	0.06986	0.25002	0.75721
	B1->Y (FR)	0.06290	0.24184	0.75090

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI22X2H7H	A0->Y (RF)	0.03042	0.15633	0.56916
	A1->Y (RF)	0.03344	0.16159	0.55882
	B0->Y (RF)	0.04272	0.17524	0.57097
	B1->Y (RF)	0.03973	0.17061	0.58203

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI22X2H7H	A0	0.00174	0.00181	0.00188
	A0	-0.00010	-0.00010	-0.00008
	A0	0.00017	0.00017	0.00017
	A0	-0.00023	-0.00016	-0.00009
	A1	0.00200	0.00206	0.00212
	A1	-0.00010	-0.00010	-0.00003
	A1	0.00024	0.00024	0.00025
	A1	-0.00033	-0.00027	-0.00022
	B0	0.00282	0.00287	0.00291
	B0	-0.00027	-0.00027	-0.00026
	B0	0.00024	0.00024	0.00025
	B0	-0.00018	-0.00014	-0.00010
	B1	0.00254	0.00260	0.00266
	B1	-0.00027	-0.00026	-0.00025
	B1	0.00017	0.00017	0.00017
	B1	-0.00010	-0.00004	0.00002

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI22X2H7H	A0	-0.00018	-0.00011	-0.00006
	A0	0.00010	0.00010	0.00010
	A0	-0.00009	-0.00009	-0.00009
	A0	0.00184	0.00190	0.00196
	A1	-0.00017	-0.00010	-0.00005
	A1	0.00003	0.00010	0.00014
	A1	-0.00017	-0.00017	-0.00017
	A1	0.00227	0.00233	0.00238
	B0	-0.00020	-0.00015	-0.00011
	B0	0.00028	0.00028	0.00028
	B0	-0.00017	-0.00017	-0.00017
	B0	0.00274	0.00280	0.00284
	B1	-0.00021	-0.00016	-0.00012
	B1	0.00028	0.00028	0.00028
	B1	-0.00009	-0.00009	-0.00009
	B1	0.00230	0.00237	0.00243

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X2H7H	(A1 * B0 * B1 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !Y)	-0.00005	-0.00005	-0.00005
	(A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !Y)	0.00058	0.00058	0.00059
	(!A1 * B0 * B1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * B0 * B1 * !Y)	-0.00005	-0.00005	-0.00005
	(!A1 * B0 * B1 * !Y)	0.00003	0.00003	0.00003
	(!A1 * B0 * B1 * !Y)	0.00053	0.00053	0.00053
	(!A1 * !B1 * Y)	-0.00051	-0.00050	-0.00050
	(!A1 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B1 * Y)	0.00005	0.00005	0.00005
	(!A1 * !B1 * Y)	0.00006	0.00006	0.00006
	(!A1 * !B0 * B1 * Y)	-0.00051	-0.00050	-0.00050
	(!A1 * !B0 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * B1 * Y)	0.00005	0.00005	0.00005
	(!A1 * !B0 * B1 * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X2H7H	(A1 * B0 * B1 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * !Y)	0.00006	0.00006	0.00006
	(A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !Y)	-0.00059	-0.00058	-0.00057
	(!A1 * B0 * B1 * !Y)	-0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * !Y)	0.00005	0.00005	0.00005
	(!A1 * B0 * B1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A1 * B0 * B1 * !Y)	-0.00053	-0.00052	-0.00050
	(!A1 * !B1 * Y)	0.00050	0.00050	0.00051
	(!A1 * !B1 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B1 * Y)	-0.00005	-0.00005	-0.00005
	(!A1 * !B1 * Y)	-0.00006	-0.00006	-0.00005
	(!A1 * !B0 * B1 * Y)	0.00050	0.00050	0.00051
	(!A1 * !B0 * B1 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * B1 * Y)	-0.00005	-0.00005	-0.00005
	(!A1 * !B0 * B1 * Y)	-0.00006	-0.00006	-0.00005

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X2H7H	(A0 * B0 * B1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * !Y)	0.00067	0.00068	0.00068
	(!A0 * B0 * B1 * !Y)	-0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * B0 * B1 * !Y)	0.00003	0.00003	0.00003
	(!A0 * B0 * B1 * !Y)	0.00062	0.00063	0.00063
	(!A0 * !B1 * Y)	-0.00039	-0.00039	-0.00039
	(!A0 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B1 * Y)	0.00002	0.00003	0.00003
	(!A0 * !B1 * Y)	0.00039	0.00040	0.00040
	(!A0 * !B0 * B1 * Y)	-0.00039	-0.00039	-0.00039
	(!A0 * !B0 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * B1 * Y)	0.00002	0.00003	0.00003
	(!A0 * !B0 * B1 * Y)	0.00039	0.00040	0.00040

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X2H7H	(A0 * B0 * B1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * B1 * !Y)	0.00006	0.00006	0.00006
	(A0 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * !Y)	-0.00068	-0.00068	-0.00067
	(!A0 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * !Y)	0.00005	0.00005	0.00005
	(!A0 * B0 * B1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * B0 * B1 * !Y)	-0.00063	-0.00061	-0.00059
	(!A0 * !B1 * Y)	0.00039	0.00040	0.00041
	(!A0 * !B1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B1 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !B1 * Y)	-0.00039	-0.00037	-0.00035
	(!A0 * !B0 * B1 * Y)	0.00039	0.00040	0.00041
	(!A0 * !B0 * B1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * B1 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !B0 * B1 * Y)	-0.00039	-0.00037	-0.00035

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X2H7H	(A0 * A1 * B1 * !Y)	-0.00019	-0.00016	-0.00012
	(A0 * A1 * B1 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * B1 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B1 * !Y)	0.00056	0.00057	0.00058
	(A0 * A1 * !B1 * !Y)	-0.00028	-0.00028	-0.00027
	(A0 * A1 * !B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B1 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B1 * !Y)	0.00048	0.00049	0.00049
	(A0 * !A1 * !B1 * Y)	-0.00034	-0.00034	-0.00034
	(A0 * !A1 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * !B1 * Y)	0.00002	0.00003	0.00003
	(A0 * !A1 * !B1 * Y)	0.00042	0.00043	0.00043
	(!A0 * !B1 * Y)	-0.00034	-0.00034	-0.00034
	(!A0 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B1 * Y)	0.00002	0.00003	0.00003
	(!A0 * !B1 * Y)	0.00042	0.00043	0.00043

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X2H7H	(A0 * A1 * B1 * !Y)	0.00019	0.00019	0.00019
	(A0 * A1 * B1 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * B1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * B1 * !Y)	-0.00057	-0.00056	-0.00056
	(A0 * A1 * !B1 * !Y)	0.00027	0.00028	0.00028
	(A0 * A1 * !B1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B1 * !Y)	-0.00049	-0.00047	-0.00046
	(A0 * !A1 * !B1 * Y)	0.00034	0.00035	0.00037
	(A0 * !A1 * !B1 * Y)	0.00002	0.00002	0.00003
	(A0 * !A1 * !B1 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * !A1 * !B1 * Y)	-0.00042	-0.00041	-0.00039
	(!A0 * !B1 * Y)	0.00034	0.00035	0.00037
	(!A0 * !B1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B1 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !B1 * Y)	-0.00042	-0.00041	-0.00039

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X2H7H	(A0 * A1 * B0 * !Y)	-0.00020	-0.00017	-0.00013
	(A0 * A1 * B0 * !Y)	-0.00005	-0.00005	-0.00004
	(A0 * A1 * B0 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B0 * !Y)	0.00046	0.00047	0.00048
	(A0 * A1 * !B0 * !Y)	-0.00029	-0.00029	-0.00028
	(A0 * A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * !Y)	0.00002	0.00003	0.00003
	(A0 * A1 * !B0 * !Y)	0.00039	0.00039	0.00039
	(A0 * !A1 * !B0 * Y)	-0.00045	-0.00045	-0.00045
	(A0 * !A1 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * !B0 * Y)	0.00005	0.00005	0.00005
	(A0 * !A1 * !B0 * Y)	0.00010	0.00010	0.00010
	(!A0 * !B0 * Y)	-0.00045	-0.00045	-0.00045
	(!A0 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * Y)	0.00005	0.00005	0.00005
	(!A0 * !B0 * Y)	0.00010	0.00010	0.00010

Passive power(pJ) for B1 falling (conditional):

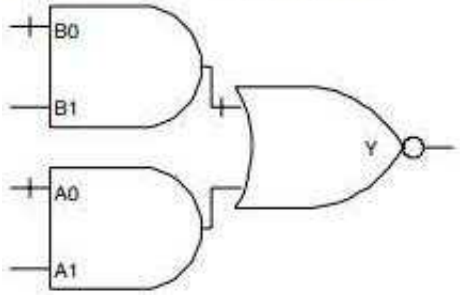
Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X2H7H	(A0 * A1 * B0 * !Y)	0.00020	0.00020	0.00020
	(A0 * A1 * B0 * !Y)	0.00004	0.00005	0.00005
	(A0 * A1 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * B0 * !Y)	-0.00047	-0.00047	-0.00046
	(A0 * A1 * !B0 * !Y)	0.00028	0.00029	0.00029
	(A0 * A1 * !B0 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * !Y)	-0.00003	-0.00003	-0.00002
	(A0 * A1 * !B0 * !Y)	-0.00039	-0.00037	-0.00035
	(A0 * !A1 * !B0 * Y)	0.00045	0.00045	0.00045
	(A0 * !A1 * !B0 * Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * !B0 * Y)	-0.00005	-0.00005	-0.00005
	(A0 * !A1 * !B0 * Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !B0 * Y)	0.00045	0.00045	0.00045
	(!A0 * !B0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !B0 * Y)	-0.00010	-0.00010	-0.00010

AOI22X3H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI22 cell provides the logical inverted OR of two AND groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	Y
0	x	0	x	1
0	x	1	0	1
x	x	1	1	0
1	0	0	x	1
1	0	1	0	1
1	1	x	x	0

Footprint

Cell Name	Area
AOI22X3H7H	3.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	B1	Y
AOI22X3H7H	0.00207	0.00190	0.00187	0.00196	0.04263

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI22X3H7H	0.00000	0.03314	0.05566

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI22X3H7H	A0->Y (FR)	0.04791	0.22347	0.73806
	A1->Y (FR)	0.04182	0.21599	0.73267
	B0->Y (FR)	0.05328	0.23430	0.75234
	B1->Y (FR)	0.05938	0.24157	0.75792

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI22X3H7H	A0->Y (RF)	0.02968	0.16427	0.58370
	A1->Y (RF)	0.02609	0.15635	0.58515
	B0->Y (RF)	0.03528	0.17071	0.59657
	B1->Y (RF)	0.03851	0.17766	0.59496

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI22X3H7H	A0	0.00245	0.00254	0.00261
	A0	-0.00015	-0.00015	-0.00014
	A0	0.00035	0.00035	0.00035
	A0	-0.00038	-0.00031	-0.00025
	A1	0.00209	0.00219	0.00229
	A1	-0.00015	-0.00015	-0.00013
	A1	0.00024	0.00024	0.00024
	A1	-0.00028	-0.00019	-0.00011
	B0	0.00313	0.00321	0.00327
	B0	-0.00044	-0.00040	-0.00039
	B0	0.00024	0.00024	0.00025
	B0	-0.00016	-0.00009	-0.00002
	B1	0.00350	0.00355	0.00360
	B1	-0.00040	-0.00040	-0.00038
	B1	0.00035	0.00035	0.00036
	B1	-0.00025	-0.00019	-0.00014

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI22X3H7H	A0	-0.00025	-0.00015	-0.00010
	A0	0.00015	0.00015	0.00016
	A0	-0.00024	-0.00024	-0.00024
	A0	0.00275	0.00283	0.00290
	A1	-0.00025	-0.00016	-0.00010
	A1	0.00015	0.00015	0.00016
	A1	-0.00014	-0.00013	-0.00013
	A1	0.00221	0.00228	0.00235
	B0	-0.00028	-0.00021	-0.00016
	B0	0.00039	0.00040	0.00044
	B0	-0.00014	-0.00014	-0.00013
	B0	0.00284	0.00293	0.00300
	B1	-0.00027	-0.00021	-0.00016
	B1	0.00041	0.00042	0.00042
	B1	-0.00024	-0.00024	-0.00024
	B1	0.00335	0.00347	0.00353

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X3H7H	(A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !Y)	-0.00008	-0.00008	-0.00008
	(A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !Y)	0.00077	0.00077	0.00078
	(!A1 * B0 * B1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * B0 * B1 * !Y)	-0.00008	-0.00007	-0.00007
	(!A1 * B0 * B1 * !Y)	0.00004	0.00004	0.00004
	(!A1 * B0 * B1 * !Y)	0.00071	0.00071	0.00071
	(!A1 * B0 * !B1 * Y)	-0.00049	-0.00049	-0.00048
	(!A1 * B0 * !B1 * Y)	-0.00003	-0.00003	-0.00002
	(!A1 * B0 * !B1 * Y)	0.00003	0.00003	0.00004
	(!A1 * B0 * !B1 * Y)	0.00044	0.00045	0.00045
	(!A1 * !B0 * Y)	-0.00049	-0.00049	-0.00048
	(!A1 * !B0 * Y)	-0.00003	-0.00002	-0.00002
	(!A1 * !B0 * Y)	0.00003	0.00003	0.00004
	(!A1 * !B0 * Y)	0.00044	0.00045	0.00045

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X3H7H	(A1 * B0 * B1 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * !Y)	0.00008	0.00008	0.00008
	(A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !Y)	-0.00078	-0.00077	-0.00076
	(!A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * !Y)	0.00007	0.00007	0.00008
	(!A1 * B0 * B1 * !Y)	-0.00004	-0.00004	-0.00004
	(!A1 * B0 * B1 * !Y)	-0.00071	-0.00069	-0.00067
	(!A1 * B0 * !B1 * Y)	0.00049	0.00049	0.00051
	(!A1 * B0 * !B1 * Y)	0.00002	0.00003	0.00003
	(!A1 * B0 * !B1 * Y)	-0.00004	-0.00003	-0.00003
	(!A1 * B0 * !B1 * Y)	-0.00044	-0.00042	-0.00039
	(!A1 * !B0 * Y)	0.00049	0.00049	0.00051
	(!A1 * !B0 * Y)	0.00002	0.00003	0.00003
	(!A1 * !B0 * Y)	-0.00004	-0.00003	-0.00003
	(!A1 * !B0 * Y)	-0.00044	-0.00042	-0.00039

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X3H7H	(A0 * B0 * B1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !Y)	-0.00008	-0.00008	-0.00008
	(A0 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * !Y)	0.00066	0.00066	0.00067
	(!A0 * B0 * B1 * !Y)	-0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * !Y)	-0.00008	-0.00008	-0.00007
	(!A0 * B0 * B1 * !Y)	0.00003	0.00004	0.00004
	(!A0 * B0 * B1 * !Y)	0.00059	0.00060	0.00060
	(!A0 * B0 * !B1 * Y)	-0.00061	-0.00061	-0.00061
	(!A0 * B0 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * B0 * !B1 * Y)	0.00007	0.00007	0.00007
	(!A0 * B0 * !B1 * Y)	0.00005	0.00005	0.00005
	(!A0 * !B0 * Y)	-0.00061	-0.00061	-0.00061
	(!A0 * !B0 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !B0 * Y)	0.00007	0.00007	0.00007
	(!A0 * !B0 * Y)	0.00005	0.00005	0.00005

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X3H7H	(A0 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !Y)	0.00008	0.00008	0.00008
	(A0 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * !Y)	-0.00067	-0.00066	-0.00066
	(!A0 * B0 * B1 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * B0 * B1 * !Y)	0.00007	0.00008	0.00008
	(!A0 * B0 * B1 * !Y)	-0.00004	-0.00004	-0.00003
	(!A0 * B0 * B1 * !Y)	-0.00060	-0.00058	-0.00055
	(!A0 * B0 * !B1 * Y)	0.00061	0.00061	0.00061
	(!A0 * B0 * !B1 * Y)	0.00002	0.00003	0.00003
	(!A0 * B0 * !B1 * Y)	-0.00007	-0.00006	-0.00006
	(!A0 * B0 * !B1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !B0 * Y)	0.00061	0.00061	0.00061
	(!A0 * !B0 * Y)	0.00002	0.00003	0.00003
	(!A0 * !B0 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !B0 * Y)	-0.00005	-0.00005	-0.00005

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X3H7H	(A0 * A1 * B1 * !Y)	-0.00027	-0.00023	-0.00018
	(A0 * A1 * B1 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * A1 * B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B1 * !Y)	0.00051	0.00052	0.00053
	(A0 * A1 * !B1 * !Y)	-0.00038	-0.00038	-0.00038
	(A0 * A1 * !B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B1 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * !B1 * !Y)	0.00042	0.00043	0.00043
	(!A1 * !B1 * Y)	-0.00057	-0.00056	-0.00055
	(!A1 * !B1 * Y)	-0.00003	-0.00002	-0.00002
	(!A1 * !B1 * Y)	0.00007	0.00007	0.00007
	(!A1 * !B1 * Y)	0.00009	0.00009	0.00009
	(!A0 * A1 * !B1 * Y)	-0.00057	-0.00056	-0.00055
	(!A0 * A1 * !B1 * Y)	-0.00003	-0.00002	-0.00002
	(!A0 * A1 * !B1 * Y)	0.00007	0.00007	0.00007
	(!A0 * A1 * !B1 * Y)	0.00009	0.00009	0.00009

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X3H7H	(A0 * A1 * B1 * !Y)	0.00027	0.00027	0.00027
	(A0 * A1 * B1 * !Y)	0.00006	0.00006	0.00006
	(A0 * A1 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B1 * !Y)	-0.00052	-0.00051	-0.00051
	(A0 * A1 * !B1 * !Y)	0.00038	0.00038	0.00038
	(A0 * A1 * !B1 * !Y)	0.00002	0.00003	0.00003
	(A0 * A1 * !B1 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * !B1 * !Y)	-0.00043	-0.00041	-0.00038
	(!A1 * !B1 * Y)	0.00056	0.00056	0.00057
	(!A1 * !B1 * Y)	0.00002	0.00003	0.00003
	(!A1 * !B1 * Y)	-0.00007	-0.00007	-0.00006
	(!A1 * !B1 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * A1 * !B1 * Y)	0.00056	0.00056	0.00057
	(!A0 * A1 * !B1 * Y)	0.00002	0.00003	0.00003
	(!A0 * A1 * !B1 * Y)	-0.00007	-0.00007	-0.00006
	(!A0 * A1 * !B1 * Y)	-0.00009	-0.00009	-0.00009

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X3H7H	(A0 * A1 * B0 * !Y)	-0.00027	-0.00023	-0.00018
	(A0 * A1 * B0 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * !Y)	0.00062	0.00062	0.00063
	(A0 * A1 * !B0 * !Y)	-0.00037	-0.00037	-0.00036
	(A0 * A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * !B0 * !Y)	0.00053	0.00053	0.00054
	(!A1 * !B0 * Y)	-0.00044	-0.00043	-0.00043
	(!A1 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * Y)	0.00047	0.00047	0.00048
	(!A0 * A1 * !B0 * Y)	-0.00043	-0.00043	-0.00043
	(!A0 * A1 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B0 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * !B0 * Y)	0.00047	0.00047	0.00048

Passive power(pJ) for B1 falling (conditional):

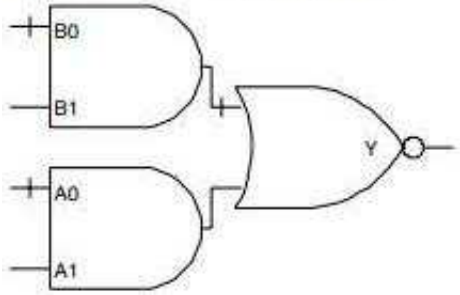
Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X3H7H	(A0 * A1 * B0 * !Y)	0.00026	0.00027	0.00027
	(A0 * A1 * B0 * !Y)	0.00006	0.00006	0.00006
	(A0 * A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B0 * !Y)	-0.00062	-0.00062	-0.00062
	(A0 * A1 * !B0 * !Y)	0.00036	0.00037	0.00037
	(A0 * A1 * !B0 * !Y)	0.00002	0.00003	0.00003
	(A0 * A1 * !B0 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * !B0 * !Y)	-0.00053	-0.00052	-0.00049
	(!A1 * !B0 * Y)	0.00044	0.00044	0.00046
	(!A1 * !B0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * Y)	-0.00047	-0.00045	-0.00041
	(!A0 * A1 * !B0 * Y)	0.00044	0.00044	0.00046
	(!A0 * A1 * !B0 * Y)	0.00002	0.00002	0.00003
	(!A0 * A1 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * !B0 * Y)	-0.00047	-0.00045	-0.00041

AOI22X4H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI22 cell provides the logical inverted OR of two AND groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	Y
0	x	0	x	1
0	x	1	0	1
x	x	1	1	0
1	0	0	x	1
1	0	1	0	1
1	1	x	x	0

Footprint

Cell Name	Area
AOI22X4H7H	6.44000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	B1	Y
AOI22X4H7H	0.00339	0.00351	0.00320	0.00338	0.05915

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI22X4H7H	0.00000	0.04119	0.06705

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI22X4H7H	A0->Y (FR)	0.04759	0.21959	0.72905
	A1->Y (FR)	0.05403	0.22777	0.73559
	B0->Y (FR)	0.05832	0.23717	0.74847
	B1->Y (FR)	0.06561	0.24584	0.75610

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI22X4H7H	A0->Y (RF)	0.02838	0.15362	0.56884
	A1->Y (RF)	0.03154	0.15936	0.55824
	B0->Y (RF)	0.03676	0.16728	0.58009
	B1->Y (RF)	0.04007	0.17221	0.56932

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI22X4H7H	A0	0.00356	0.00370	0.00385
	A0	-0.00021	-0.00020	-0.00018
	A0	0.00033	0.00034	0.00035
	A0	-0.00045	-0.00030	-0.00016
	A1	0.00406	0.00419	0.00431
	A1	-0.00020	-0.00020	-0.00018
	A1	0.00048	0.00049	0.00049
	A1	-0.00063	-0.00051	-0.00041
	B0	0.00499	0.00511	0.00521
	B0	-0.00053	-0.00053	-0.00053
	B0	0.00033	0.00034	0.00034
	B0	-0.00031	-0.00018	-0.00007
	B1	0.00555	0.00565	0.00573
	B1	-0.00054	-0.00053	-0.00053
	B1	0.00049	0.00049	0.00049
	B1	-0.00049	-0.00040	-0.00031

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI22X4H7H	A0	-0.00039	-0.00024	-0.00014
	A0	0.00019	0.00020	0.00023
	A0	-0.00019	-0.00019	-0.00018
	A0	0.00372	0.00384	0.00396
	A1	-0.00037	-0.00022	-0.00012
	A1	0.00019	0.00020	0.00021
	A1	-0.00034	-0.00034	-0.00033
	A1	0.00454	0.00468	0.00478
	B0	-0.00042	-0.00031	-0.00023
	B0	0.00055	0.00056	0.00058
	B0	-0.00019	-0.00019	-0.00018
	B0	0.00462	0.00477	0.00488
	B1	-0.00041	-0.00030	-0.00023
	B1	0.00053	0.00053	0.00057
	B1	-0.00034	-0.00034	-0.00033
	B1	0.00553	0.00565	0.00573

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X4H7H	(A1 * B0 * B1 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !Y)	-0.00012	-0.00012	-0.00012
	(A1 * B0 * B1 * !Y)	0.00001	0.00002	0.00002
	(A1 * B0 * B1 * !Y)	0.00118	0.00118	0.00119
	(!A1 * B0 * B1 * !Y)	-0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * !Y)	-0.00011	-0.00011	-0.00011
	(!A1 * B0 * B1 * !Y)	0.00005	0.00005	0.00006
	(!A1 * B0 * B1 * !Y)	0.00107	0.00107	0.00108
	(!A1 * B0 * !B1 * Y)	-0.00105	-0.00104	-0.00103
	(!A1 * B0 * !B1 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * B0 * !B1 * Y)	0.00010	0.00010	0.00010
	(!A1 * B0 * !B1 * Y)	0.00011	0.00011	0.00012
	(!A1 * !B0 * Y)	-0.00104	-0.00104	-0.00103
	(!A1 * !B0 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * !B0 * Y)	0.00010	0.00010	0.00010
	(!A1 * !B0 * Y)	0.00011	0.00011	0.00012

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X4H7H	(A1 * B0 * B1 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !Y)	0.00012	0.00012	0.00012
	(A1 * B0 * B1 * !Y)	-0.00002	-0.00001	-0.00001
	(A1 * B0 * B1 * !Y)	-0.00119	-0.00118	-0.00116
	(!A1 * B0 * B1 * !Y)	-0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * !Y)	0.00011	0.00011	0.00011
	(!A1 * B0 * B1 * !Y)	-0.00006	-0.00005	-0.00005
	(!A1 * B0 * B1 * !Y)	-0.00108	-0.00104	-0.00100
	(!A1 * B0 * !B1 * Y)	0.00103	0.00104	0.00105
	(!A1 * B0 * !B1 * Y)	0.00004	0.00004	0.00004
	(!A1 * B0 * !B1 * Y)	-0.00010	-0.00010	-0.00010
	(!A1 * B0 * !B1 * Y)	-0.00012	-0.00011	-0.00011
	(!A1 * !B0 * Y)	0.00103	0.00104	0.00104
	(!A1 * !B0 * Y)	0.00004	0.00004	0.00004
	(!A1 * !B0 * Y)	-0.00010	-0.00010	-0.00010
	(!A1 * !B0 * Y)	-0.00011	-0.00011	-0.00011

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X4H7H	(A0 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !Y)	-0.00011	-0.00011	-0.00011
	(A0 * B0 * B1 * !Y)	0.00001	0.00002	0.00002
	(A0 * B0 * B1 * !Y)	0.00133	0.00134	0.00135
	(!A0 * B0 * B1 * !Y)	-0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * !Y)	-0.00011	-0.00011	-0.00011
	(!A0 * B0 * B1 * !Y)	0.00005	0.00005	0.00006
	(!A0 * B0 * B1 * !Y)	0.00122	0.00124	0.00124
	(!A0 * B0 * !B1 * Y)	-0.00080	-0.00079	-0.00079
	(!A0 * B0 * !B1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * B0 * !B1 * Y)	0.00005	0.00005	0.00005
	(!A0 * B0 * !B1 * Y)	0.00077	0.00078	0.00078
	(!A0 * !B0 * Y)	-0.00080	-0.00079	-0.00079
	(!A0 * !B0 * Y)	-0.00004	-0.00004	-0.00003
	(!A0 * !B0 * Y)	0.00005	0.00005	0.00005
	(!A0 * !B0 * Y)	0.00076	0.00077	0.00078

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X4H7H	(A0 * B0 * B1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * B1 * !Y)	0.00012	0.00012	0.00012
	(A0 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * !Y)	-0.00135	-0.00133	-0.00131
	(!A0 * B0 * B1 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * B0 * B1 * !Y)	0.00011	0.00011	0.00011
	(!A0 * B0 * B1 * !Y)	-0.00006	-0.00005	-0.00005
	(!A0 * B0 * B1 * !Y)	-0.00124	-0.00121	-0.00116
	(!A0 * B0 * !B1 * Y)	0.00080	0.00081	0.00083
	(!A0 * B0 * !B1 * Y)	0.00004	0.00004	0.00004
	(!A0 * B0 * !B1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * B0 * !B1 * Y)	-0.00077	-0.00073	-0.00068
	(!A0 * !B0 * Y)	0.00080	0.00081	0.00083
	(!A0 * !B0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !B0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !B0 * Y)	-0.00077	-0.00073	-0.00068

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X4H7H	(A0 * A1 * B1 * !Y)	-0.00040	-0.00034	-0.00026
	(A0 * A1 * B1 * !Y)	-0.00009	-0.00009	-0.00009
	(A0 * A1 * B1 * !Y)	0.00001	0.00002	0.00002
	(A0 * A1 * B1 * !Y)	0.00093	0.00094	0.00096
	(A0 * A1 * !B1 * !Y)	-0.00057	-0.00056	-0.00056
	(A0 * A1 * !B1 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * !B1 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * !B1 * !Y)	0.00078	0.00079	0.00079
	(A0 * !A1 * !B1 * Y)	-0.00088	-0.00088	-0.00087
	(A0 * !A1 * !B1 * Y)	-0.00004	-0.00004	-0.00004
	(A0 * !A1 * !B1 * Y)	0.00010	0.00010	0.00010
	(A0 * !A1 * !B1 * Y)	0.00022	0.00022	0.00023
	(!A0 * !B1 * Y)	-0.00088	-0.00088	-0.00087
	(!A0 * !B1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !B1 * Y)	0.00010	0.00010	0.00010
	(!A0 * !B1 * Y)	0.00022	0.00022	0.00023

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X4H7H	(A0 * A1 * B1 * !Y)	0.00040	0.00040	0.00040
	(A0 * A1 * B1 * !Y)	0.00009	0.00009	0.00009
	(A0 * A1 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B1 * !Y)	-0.00093	-0.00093	-0.00092
	(A0 * A1 * !B1 * !Y)	0.00056	0.00056	0.00057
	(A0 * A1 * !B1 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * !B1 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * !B1 * !Y)	-0.00079	-0.00076	-0.00071
	(A0 * !A1 * !B1 * Y)	0.00088	0.00088	0.00088
	(A0 * !A1 * !B1 * Y)	0.00004	0.00004	0.00004
	(A0 * !A1 * !B1 * Y)	-0.00010	-0.00010	-0.00010
	(A0 * !A1 * !B1 * Y)	-0.00023	-0.00022	-0.00022
	(!A0 * !B1 * Y)	0.00087	0.00088	0.00088
	(!A0 * !B1 * Y)	0.00004	0.00004	0.00004
	(!A0 * !B1 * Y)	-0.00010	-0.00010	-0.00009
	(!A0 * !B1 * Y)	-0.00023	-0.00022	-0.00022

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X4H7H	(A0 * A1 * B0 * !Y)	-0.00038	-0.00033	-0.00025
	(A0 * A1 * B0 * !Y)	-0.00009	-0.00009	-0.00008
	(A0 * A1 * B0 * !Y)	0.00001	0.00001	0.00002
	(A0 * A1 * B0 * !Y)	0.00115	0.00117	0.00118
	(A0 * A1 * !B0 * !Y)	-0.00054	-0.00053	-0.00053
	(A0 * A1 * !B0 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * !B0 * !Y)	0.00005	0.00005	0.00006
	(A0 * A1 * !B0 * !Y)	0.00100	0.00101	0.00102
	(A0 * !A1 * !B0 * Y)	-0.00068	-0.00068	-0.00067
	(A0 * !A1 * !B0 * Y)	-0.00004	-0.00004	-0.00003
	(A0 * !A1 * !B0 * Y)	0.00005	0.00005	0.00005
	(A0 * !A1 * !B0 * Y)	0.00087	0.00088	0.00089
	(!A0 * !B0 * Y)	-0.00068	-0.00068	-0.00067
	(!A0 * !B0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !B0 * Y)	0.00005	0.00005	0.00005
	(!A0 * !B0 * Y)	0.00087	0.00088	0.00089

Passive power(pJ) for B1 falling (conditional):

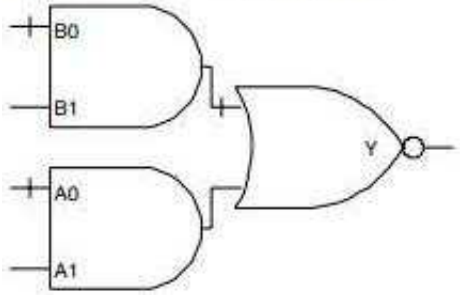
Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X4H7H	(A0 * A1 * B0 * !Y)	0.00038	0.00038	0.00038
	(A0 * A1 * B0 * !Y)	0.00008	0.00009	0.00009
	(A0 * A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B0 * !Y)	-0.00116	-0.00115	-0.00114
	(A0 * A1 * !B0 * !Y)	0.00053	0.00054	0.00054
	(A0 * A1 * !B0 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * !B0 * !Y)	-0.00006	-0.00005	-0.00005
	(A0 * A1 * !B0 * !Y)	-0.00102	-0.00099	-0.00096
	(A0 * !A1 * !B0 * Y)	0.00068	0.00069	0.00072
	(A0 * !A1 * !B0 * Y)	0.00003	0.00004	0.00004
	(A0 * !A1 * !B0 * Y)	-0.00005	-0.00005	-0.00005
	(A0 * !A1 * !B0 * Y)	-0.00088	-0.00084	-0.00076
	(!A0 * !B0 * Y)	0.00068	0.00070	0.00073
	(!A0 * !B0 * Y)	0.00004	0.00004	0.00005
	(!A0 * !B0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !B0 * Y)	-0.00088	-0.00084	-0.00081

AOI22X6H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI22 cell provides the logical inverted OR of two AND groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	Y
0	x	0	x	1
0	x	1	0	1
x	x	1	1	0
1	0	0	x	1
1	0	1	0	1
1	1	x	x	0

Footprint

Cell Name	Area
AOI22X6H7H	6.44000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	B1	Y
AOI22X6H7H	0.00396	0.00404	0.00382	0.00387	0.08488

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI22X6H7H	0.00000	0.06627	0.11133

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI22X6H7H	A0->Y (FR)	0.03963	0.21372	0.73280
	A1->Y (FR)	0.04522	0.22101	0.73827
	B0->Y (FR)	0.05044	0.23130	0.74979
	B1->Y (FR)	0.05649	0.23870	0.75624

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI22X6H7H	A0->Y (RF)	0.02469	0.15437	0.58405
	A1->Y (RF)	0.02784	0.16199	0.58245
	B0->Y (RF)	0.03352	0.16851	0.59518
	B1->Y (RF)	0.03648	0.17531	0.59335

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI22X6H7H	A0	0.00425	0.00443	0.00461
	A0	-0.00031	-0.00030	-0.00028
	A0	0.00048	0.00049	0.00049
	A0	-0.00056	-0.00037	-0.00021
	A1	0.00491	0.00506	0.00520
	A1	-0.00031	-0.00030	-0.00028
	A1	0.00070	0.00071	0.00071
	A1	-0.00073	-0.00059	-0.00048
	B0	0.00621	0.00638	0.00651
	B0	-0.00079	-0.00079	-0.00078
	B0	0.00034	0.00049	0.00049
	B0	-0.00037	-0.00022	-0.00008
	B1	0.00689	0.00704	0.00713
	B1	-0.00083	-0.00079	-0.00078
	B1	0.00070	0.00071	0.00071
	B1	-0.00056	-0.00044	-0.00034

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI22X6H7H	A0	-0.00052	-0.00033	-0.00019
	A0	0.00029	0.00030	0.00031
	A0	-0.00027	-0.00026	-0.00021
	A0	0.00444	0.00459	0.00475
	A1	-0.00048	-0.00030	-0.00018
	A1	0.00029	0.00031	0.00032
	A1	-0.00049	-0.00049	-0.00048
	A1	0.00547	0.00563	0.00576
	B0	-0.00057	-0.00044	-0.00033
	B0	0.00082	0.00083	0.00083
	B0	-0.00027	-0.00027	-0.00026
	B0	0.00572	0.00589	0.00603
	B1	-0.00055	-0.00041	-0.00033
	B1	0.00082	0.00083	0.00084
	B1	-0.00049	-0.00049	-0.00048
	B1	0.00670	0.00694	0.00705

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X6H7H	(A1 * B0 * B1 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !Y)	-0.00016	-0.00016	-0.00015
	(A1 * B0 * B1 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * !Y)	0.00134	0.00135	0.00136
	(!A1 * B0 * B1 * !Y)	-0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * !Y)	-0.00015	-0.00015	-0.00015
	(!A1 * B0 * B1 * !Y)	0.00007	0.00008	0.00008
	(!A1 * B0 * B1 * !Y)	0.00122	0.00122	0.00123
	(!A1 * B0 * !B1 * Y)	-0.00125	-0.00125	-0.00124
	(!A1 * B0 * !B1 * Y)	-0.00005	-0.00005	-0.00004
	(!A1 * B0 * !B1 * Y)	0.00014	0.00014	0.00014
	(!A1 * B0 * !B1 * Y)	0.00010	0.00010	0.00011
	(!A1 * !B0 * Y)	-0.00125	-0.00125	-0.00124
	(!A1 * !B0 * Y)	-0.00005	-0.00005	-0.00004
	(!A1 * !B0 * Y)	0.00014	0.00014	0.00014
	(!A1 * !B0 * Y)	0.00010	0.00010	0.00011

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X6H7H	(A1 * B0 * B1 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * !Y)	0.00016	0.00017	0.00017
	(A1 * B0 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * B1 * !Y)	-0.00136	-0.00134	-0.00133
	(!A1 * B0 * B1 * !Y)	-0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * !Y)	0.00015	0.00015	0.00015
	(!A1 * B0 * B1 * !Y)	-0.00008	-0.00007	-0.00007
	(!A1 * B0 * B1 * !Y)	-0.00123	-0.00118	-0.00112
	(!A1 * B0 * !B1 * Y)	0.00124	0.00125	0.00125
	(!A1 * B0 * !B1 * Y)	0.00004	0.00005	0.00006
	(!A1 * B0 * !B1 * Y)	-0.00013	-0.00013	-0.00013
	(!A1 * B0 * !B1 * Y)	-0.00010	-0.00010	-0.00010
	(!A1 * !B0 * Y)	0.00124	0.00125	0.00125
	(!A1 * !B0 * Y)	0.00004	0.00005	0.00005
	(!A1 * !B0 * Y)	-0.00013	-0.00013	-0.00013
	(!A1 * !B0 * Y)	-0.00010	-0.00010	-0.00010

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X6H7H	(A0 * B0 * B1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * B1 * !Y)	-0.00016	-0.00016	-0.00016
	(A0 * B0 * B1 * !Y)	0.00002	0.00002	0.00003
	(A0 * B0 * B1 * !Y)	0.00149	0.00150	0.00151
	(!A0 * B0 * B1 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * B0 * B1 * !Y)	-0.00015	-0.00015	-0.00015
	(!A0 * B0 * B1 * !Y)	0.00007	0.00008	0.00008
	(!A0 * B0 * B1 * !Y)	0.00136	0.00137	0.00138
	(!A0 * B0 * !B1 * Y)	-0.00095	-0.00094	-0.00094
	(!A0 * B0 * !B1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * B0 * !B1 * Y)	0.00007	0.00007	0.00008
	(!A0 * B0 * !B1 * Y)	0.00087	0.00088	0.00088
	(!A0 * !B0 * Y)	-0.00095	-0.00094	-0.00094
	(!A0 * !B0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !B0 * Y)	0.00007	0.00007	0.00008
	(!A0 * !B0 * Y)	0.00088	0.00088	0.00088

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X6H7H	(A0 * B0 * B1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !Y)	0.00016	0.00017	0.00017
	(A0 * B0 * B1 * !Y)	-0.00003	-0.00002	-0.00002
	(A0 * B0 * B1 * !Y)	-0.00150	-0.00149	-0.00148
	(!A0 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * !Y)	0.00015	0.00015	0.00015
	(!A0 * B0 * B1 * !Y)	-0.00008	-0.00008	-0.00007
	(!A0 * B0 * B1 * !Y)	-0.00137	-0.00134	-0.00129
	(!A0 * B0 * !B1 * Y)	0.00095	0.00096	0.00098
	(!A0 * B0 * !B1 * Y)	0.00005	0.00005	0.00005
	(!A0 * B0 * !B1 * Y)	-0.00008	-0.00007	-0.00007
	(!A0 * B0 * !B1 * Y)	-0.00087	-0.00082	-0.00076
	(!A0 * !B0 * Y)	0.00095	0.00096	0.00098
	(!A0 * !B0 * Y)	0.00005	0.00005	0.00005
	(!A0 * !B0 * Y)	-0.00008	-0.00007	-0.00007
	(!A0 * !B0 * Y)	-0.00087	-0.00082	-0.00076

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X6H7H	(A0 * A1 * B1 * !Y)	-0.00057	-0.00048	-0.00037
	(A0 * A1 * B1 * !Y)	-0.00013	-0.00013	-0.00013
	(A0 * A1 * B1 * !Y)	0.00002	0.00002	0.00003
	(A0 * A1 * B1 * !Y)	0.00103	0.00104	0.00106
	(A0 * A1 * !B1 * !Y)	-0.00079	-0.00079	-0.00078
	(A0 * A1 * !B1 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * !B1 * !Y)	0.00007	0.00007	0.00008
	(A0 * A1 * !B1 * !Y)	0.00085	0.00086	0.00086
	(A0 * !A1 * !B1 * Y)	-0.00115	-0.00114	-0.00113
	(A0 * !A1 * !B1 * Y)	-0.00005	-0.00005	-0.00004
	(A0 * !A1 * !B1 * Y)	0.00014	0.00014	0.00014
	(A0 * !A1 * !B1 * Y)	0.00019	0.00020	0.00020
	(!A0 * !B1 * Y)	-0.00115	-0.00114	-0.00113
	(!A0 * !B1 * Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !B1 * Y)	0.00013	0.00014	0.00014
	(!A0 * !B1 * Y)	0.00019	0.00020	0.00020

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X6H7H	(A0 * A1 * B1 * !Y)	0.00055	0.00056	0.00057
	(A0 * A1 * B1 * !Y)	0.00013	0.00013	0.00013
	(A0 * A1 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * B1 * !Y)	-0.00103	-0.00102	-0.00101
	(A0 * A1 * !B1 * !Y)	0.00079	0.00079	0.00079
	(A0 * A1 * !B1 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * !B1 * !Y)	-0.00008	-0.00007	-0.00007
	(A0 * A1 * !B1 * !Y)	-0.00086	-0.00082	-0.00077
	(A0 * !A1 * !B1 * Y)	0.00114	0.00115	0.00115
	(A0 * !A1 * !B1 * Y)	0.00005	0.00005	0.00005
	(A0 * !A1 * !B1 * Y)	-0.00014	-0.00013	-0.00013
	(A0 * !A1 * !B1 * Y)	-0.00020	-0.00019	-0.00019
	(!A0 * !B1 * Y)	0.00114	0.00115	0.00115
	(!A0 * !B1 * Y)	0.00005	0.00005	0.00005
	(!A0 * !B1 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !B1 * Y)	-0.00020	-0.00019	-0.00019

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X6H7H	(A0 * A1 * B0 * !Y)	-0.00053	-0.00046	-0.00035
	(A0 * A1 * B0 * !Y)	-0.00012	-0.00012	-0.00011
	(A0 * A1 * B0 * !Y)	0.00002	0.00002	0.00003
	(A0 * A1 * B0 * !Y)	0.00125	0.00126	0.00127
	(A0 * A1 * !B0 * !Y)	-0.00072	-0.00072	-0.00071
	(A0 * A1 * !B0 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * !B0 * !Y)	0.00007	0.00007	0.00008
	(A0 * A1 * !B0 * !Y)	0.00107	0.00108	0.00109
	(A0 * !A1 * !B0 * Y)	-0.00086	-0.00086	-0.00084
	(A0 * !A1 * !B0 * Y)	-0.00005	-0.00005	-0.00004
	(A0 * !A1 * !B0 * Y)	0.00006	0.00007	0.00007
	(A0 * !A1 * !B0 * Y)	0.00095	0.00096	0.00097
	(!A0 * !B0 * Y)	-0.00086	-0.00086	-0.00085
	(!A0 * !B0 * Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !B0 * Y)	0.00007	0.00007	0.00007
	(!A0 * !B0 * Y)	0.00094	0.00096	0.00097

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X6H7H	(A0 * A1 * B0 * !Y)	0.00053	0.00053	0.00053
	(A0 * A1 * B0 * !Y)	0.00012	0.00012	0.00012
	(A0 * A1 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * B0 * !Y)	-0.00125	-0.00125	-0.00124
	(A0 * A1 * !B0 * !Y)	0.00071	0.00072	0.00072
	(A0 * A1 * !B0 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * !B0 * !Y)	-0.00008	-0.00007	-0.00007
	(A0 * A1 * !B0 * !Y)	-0.00109	-0.00105	-0.00099
	(A0 * !A1 * !B0 * Y)	0.00087	0.00088	0.00090
	(A0 * !A1 * !B0 * Y)	0.00004	0.00005	0.00005
	(A0 * !A1 * !B0 * Y)	-0.00007	-0.00007	-0.00006
	(A0 * !A1 * !B0 * Y)	-0.00095	-0.00090	-0.00083
	(!A0 * !B0 * Y)	0.00087	0.00088	0.00090
	(!A0 * !B0 * Y)	0.00005	0.00005	0.00005
	(!A0 * !B0 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !B0 * Y)	-0.00095	-0.00090	-0.00083

AOI2BB1X0P5H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

AOI

Y=(A0N & A1N)+B0

Truth Table

INPUT			OUTPUT
A0	A1	B0	YN
0	0	x	0
x	1	0	1
x	1	1	0
1	x	0	1
1	x	1	0

Footprint

Cell Name	Area
AOI2BB1X0P5H7H	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	YN
AOI2BB1X0P5H7H	0.00091	0.00086	0.00090	0.01517

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI2BB1X0P5H7H	0.00000	0.01405	0.01583

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2BB1X0P5H7H	A0->YN (RR)	0.07903	0.24133	0.63550
	A1->YN (RR)	0.07642	0.23642	0.62465
	B0->YN (FR)	0.04846	0.21862	0.72450

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2BB1X0P5H7H	A0->YN (FF)	0.09959	0.19838	0.43322
	A1->YN (FF)	0.09331	0.18943	0.41715
	B0->YN (RF)	0.01961	0.11285	0.44356

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2BB1X0P5H7H	A0	0.00067	0.00072	0.00078
	A0	0.00000	0.00000	0.00000
	A0	0.00000	0.00000	0.00000
	A0	0.00126	0.00131	0.00137
	A1	0.00068	0.00074	0.00079
	A1	-0.00005	-0.00005	-0.00004
	A1	0.00000	0.00000	0.00000
	A1	0.00113	0.00119	0.00124
	B0	0.00063	0.00068	0.00072
	B0	-0.00002	-0.00002	-0.00002
	B0	0.00004	0.00005	0.00005
	B0	-0.00006	-0.00002	0.00002

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2BB1X0P5H7H	A0	0.00131	0.00136	0.00142
	A0	0.00000	0.00000	0.00000
	A0	-0.00000	-0.00000	0.00000
	A0	0.00068	0.00073	0.00079
	A1	0.00115	0.00119	0.00124
	A1	0.00004	0.00005	0.00005
	A1	-0.00000	-0.00000	0.00000
	A1	0.00068	0.00072	0.00077
	B0	-0.00011	-0.00007	-0.00004
	B0	0.00002	0.00002	0.00002
	B0	-0.00005	-0.00005	-0.00004
	B0	0.00059	0.00063	0.00066

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X0P5H7H	(A1 * B0 * !YN) + (A1 * !B0 * YN)	-0.00009	-0.00008	-0.00007
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	0.00030	0.00030	0.00031
	(!A1 * B0 * !YN)	-0.00003	-0.00001	0.00002
	(!A1 * B0 * !YN)	0.00008	0.00008	0.00008
	(!A1 * B0 * !YN)	-0.00005	-0.00005	-0.00005
	(!A1 * B0 * !YN)	0.00094	0.00096	0.00099

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X0P5H7H	(A1 * B0 * !YN) + (A1 * !B0 * YN)	0.00009	0.00009	0.00009
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	0.00002	0.00002	0.00002
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	-0.00000	-0.00000	0.00001
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	-0.00031	-0.00030	-0.00030
	(!A1 * B0 * !YN)	0.00116	0.00119	0.00123
	(!A1 * B0 * !YN)	-0.00008	-0.00008	-0.00008
	(!A1 * B0 * !YN)	0.00005	0.00005	0.00006
	(!A1 * B0 * !YN)	0.00017	0.00020	0.00023

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X0P5H7H	(A0 * B0 * !YN) + (A0 * !B0 * YN)	-0.00000	-0.00000	0.00000
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	0.00000	0.00000	0.00000
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	0.00032	0.00033	0.00033
	(!A0 * B0 * !YN)	-0.00002	0.00000	0.00003
	(!A0 * B0 * !YN)	0.00004	0.00004	0.00004
	(!A0 * B0 * !YN)	-0.00005	-0.00005	-0.00005
	(!A0 * B0 * !YN)	0.00082	0.00085	0.00087

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X0P5H7H	(A0 * B0 * !YN) + (A0 * !B0 * YN)	0.00000	0.00000	0.00000
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	0.00003	0.00003	0.00003
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	-0.00033	-0.00032	-0.00032
	(!A0 * B0 * !YN)	0.00102	0.00104	0.00107
	(!A0 * B0 * !YN)	-0.00004	-0.00004	-0.00004
	(!A0 * B0 * !YN)	0.00005	0.00005	0.00005
	(!A0 * B0 * !YN)	0.00017	0.00019	0.00022

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X0P5H7H	(!A0 * !A1 * !YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !YN)	0.00000	0.00000	0.00001
	(!A0 * !A1 * !YN)	0.00036	0.00036	0.00036

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X0P5H7H	(!A0 * !A1 * !YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !YN)	-0.00036	-0.00036	-0.00035

AOI2BB1X0P7H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

AOI

Y=(A0N & A1N)+B0

Truth Table

INPUT			OUTPUT
A0	A1	B0	YN
0	0	x	0
x	1	0	1
x	1	1	0
1	x	0	1
1	x	1	0

Footprint

Cell Name	Area
AOI2BB1X0P7H7H	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	YN
AOI2BB1X0P7H7H	0.00091	0.00086	0.00095	0.01731

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI2BB1X0P7H7H	0.00000	0.01556	0.01850

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2BB1X0P7H7H	A0->YN (RR)	0.07618	0.24025	0.63920
	A1->YN (RR)	0.07355	0.23544	0.62854
	B0->YN (FR)	0.04449	0.21544	0.72681

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2BB1X0P7H7H	A0->YN (FF)	0.10082	0.20128	0.44029
	A1->YN (FF)	0.09458	0.19244	0.42461
	B0->YN (RF)	0.01843	0.11237	0.44881

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2BB1X0P7H7H	A0	0.00073	0.00078	0.00084
	A0	-0.00000	-0.00000	0.00000
	A0	0.00001	0.00001	0.00001
	A0	0.00128	0.00134	0.00140
	A1	0.00074	0.00080	0.00085
	A1	-0.00006	-0.00006	-0.00005
	A1	0.00000	0.00001	0.00001
	A1	0.00116	0.00121	0.00127
	B0	0.00068	0.00072	0.00076
	B0	-0.00003	-0.00002	-0.00002
	B0	0.00005	0.00005	0.00005
	B0	-0.00007	-0.00003	0.00001

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2BB1X0P7H7H	A0	0.00135	0.00140	0.00146
	A0	0.00000	0.00000	0.00000
	A0	-0.00001	-0.00001	-0.00001
	A0	0.00075	0.00080	0.00086
	A1	0.00118	0.00123	0.00128
	A1	0.00005	0.00006	0.00006
	A1	-0.00001	-0.00001	-0.00000
	A1	0.00075	0.00079	0.00084
	B0	-0.00012	-0.00008	-0.00005
	B0	0.00002	0.00002	0.00003
	B0	-0.00005	-0.00005	-0.00005
	B0	0.00062	0.00066	0.00070

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X0P7H7H	(A1 * B0 * !YN) + (A1 * !B0 * YN)	-0.00009	-0.00008	-0.00007
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	0.00030	0.00030	0.00031
	(!A1 * B0 * !YN)	-0.00002	0.00000	0.00004
	(!A1 * B0 * !YN)	0.00008	0.00009	0.00009
	(!A1 * B0 * !YN)	-0.00005	-0.00005	-0.00004
	(!A1 * B0 * !YN)	0.00096	0.00098	0.00102

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X0P7H7H	(A1 * B0 * !YN) + (A1 * !B0 * YN)	0.00009	0.00009	0.00009
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	0.00002	0.00002	0.00002
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	-0.00000	-0.00000	0.00001
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	-0.00031	-0.00030	-0.00030
	(!A1 * B0 * !YN)	0.00119	0.00122	0.00126
	(!A1 * B0 * !YN)	-0.00009	-0.00009	-0.00008
	(!A1 * B0 * !YN)	0.00004	0.00005	0.00005
	(!A1 * B0 * !YN)	0.00020	0.00023	0.00027

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X0P7H7H	(A0 * B0 * !YN) + (A0 * !B0 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	0.00000	0.00000	0.00000
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	0.00033	0.00033	0.00033
	(!A0 * B0 * !YN)	-0.00001	0.00002	0.00004
	(!A0 * B0 * !YN)	0.00004	0.00004	0.00005
	(!A0 * B0 * !YN)	-0.00005	-0.00005	-0.00005
	(!A0 * B0 * !YN)	0.00084	0.00086	0.00089

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X0P7H7H	(A0 * B0 * !YN) + (A0 * !B0 * YN)	0.00000	0.00000	0.00000
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	0.00003	0.00003	0.00003
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	-0.00033	-0.00033	-0.00032
	(!A0 * B0 * !YN)	0.00105	0.00107	0.00110
	(!A0 * B0 * !YN)	-0.00005	-0.00004	-0.00004
	(!A0 * B0 * !YN)	0.00005	0.00005	0.00005
	(!A0 * B0 * !YN)	0.00020	0.00022	0.00025

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X0P7H7H	(!A0 * !A1 * !YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !YN)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !YN)	0.00037	0.00037	0.00038

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X0P7H7H	(!A0 * !A1 * !YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !YN)	0.00003	0.00003	0.00004
	(!A0 * !A1 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !YN)	-0.00037	-0.00037	-0.00037

AOI2BB1X1H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

AOI

Y=(A0N & A1N)+B0

Truth Table

INPUT			OUTPUT
A0	A1	B0	YN
0	0	x	0
x	1	0	1
x	1	1	0
1	x	0	1
1	x	1	0

Footprint

Cell Name	Area
AOI2BB1X1H7H	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	YN
AOI2BB1X1H7H	0.00091	0.00086	0.00103	0.02077

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI2BB1X1H7H	0.00000	0.01892	0.02730

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2BB1X1H7H	A0->YN (RR)	0.07294	0.23925	0.64415
	A1->YN (RR)	0.07029	0.23452	0.63356
	B0->YN (FR)	0.03984	0.21202	0.72918

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2BB1X1H7H	A0->YN (FF)	0.10261	0.20618	0.45285
	A1->YN (FF)	0.09642	0.19749	0.43783
	B0->YN (RF)	0.01737	0.11356	0.45884

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2BB1X1H7H	A0	0.00083	0.00089	0.00095
	A0	-0.00002	-0.00002	-0.00002
	A0	0.00002	0.00002	0.00002
	A0	0.00133	0.00139	0.00145
	A1	0.00084	0.00090	0.00096
	A1	-0.00007	-0.00007	-0.00007
	A1	0.00002	0.00002	0.00002
	A1	0.00121	0.00126	0.00132
	B0	0.00074	0.00078	0.00084
	B0	-0.00003	-0.00003	-0.00002
	B0	0.00006	0.00006	0.00006
	B0	-0.00008	-0.00003	0.00001

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2BB1X1H7H	A0	0.00139	0.00144	0.00150
	A0	0.00002	0.00002	0.00002
	A0	-0.00002	-0.00002	-0.00002
	A0	0.00084	0.00089	0.00095
	A1	0.00122	0.00127	0.00132
	A1	0.00007	0.00007	0.00007
	A1	-0.00002	-0.00002	-0.00002
	A1	0.00084	0.00088	0.00093
	B0	-0.00014	-0.00010	-0.00006
	B0	0.00002	0.00003	0.00004
	B0	-0.00006	-0.00006	-0.00006
	B0	0.00065	0.00072	0.00076

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X1H7H	(A1 * B0 * !YN) + (A1 * !B0 * YN)	-0.00009	-0.00008	-0.00007
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	0.00000	0.00000	0.00001
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	0.00030	0.00030	0.00030
	(!A1 * B0 * !YN)	-0.00001	0.00002	0.00004
	(!A1 * B0 * !YN)	0.00009	0.00009	0.00010
	(!A1 * B0 * !YN)	-0.00005	-0.00005	-0.00005
	(!A1 * B0 * !YN)	0.00098	0.00100	0.00103

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X1H7H	(A1 * B0 * !YN) + (A1 * !B0 * YN)	0.00009	0.00009	0.00009
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	0.00002	0.00002	0.00002
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	-0.00001	-0.00000	-0.00000
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	-0.00030	-0.00030	-0.00029
	(!A1 * B0 * !YN)	0.00122	0.00125	0.00128
	(!A1 * B0 * !YN)	-0.00010	-0.00009	-0.00009
	(!A1 * B0 * !YN)	0.00005	0.00005	0.00005
	(!A1 * B0 * !YN)	0.00022	0.00025	0.00028

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X1H7H	(A0 * B0 * !YN) + (A0 * !B0 * YN)	-0.00000	0.00000	0.00000
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	0.00000	0.00000	0.00000
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	0.00032	0.00033	0.00033
	(!A0 * B0 * !YN)	0.00001	0.00003	0.00006
	(!A0 * B0 * !YN)	0.00004	0.00005	0.00005
	(!A0 * B0 * !YN)	-0.00005	-0.00005	-0.00005
	(!A0 * B0 * !YN)	0.00087	0.00089	0.00092

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X1H7H	(A0 * B0 * !YN) + (A0 * !B0 * YN)	0.00000	0.00000	0.00000
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	0.00003	0.00003	0.00003
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	-0.00033	-0.00032	-0.00032
	(!A0 * B0 * !YN)	0.00107	0.00110	0.00113
	(!A0 * B0 * !YN)	-0.00005	-0.00005	-0.00004
	(!A0 * B0 * !YN)	0.00005	0.00005	0.00005
	(!A0 * B0 * !YN)	0.00022	0.00024	0.00027

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X1H7H	(!A0 * !A1 * !YN)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !YN)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !YN)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !YN)	0.00040	0.00040	0.00040

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X1H7H	(!A0 * !A1 * !YN)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !YN)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !YN)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !YN)	-0.00040	-0.00040	-0.00039

AOI2BB1X1P4H7H

Cell Description

AOI

Y=(A0N & A1N)+B0

Truth Table

INPUT			OUTPUT
A0	A1	B0	YN
0	0	x	0
x	1	0	1
x	1	1	0
1	x	0	1
1	x	1	0

Footprint

Cell Name	Area
AOI2BB1X1P4H7H	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	YN
AOI2BB1X1P4H7H	0.00094	0.00087	0.00110	0.02366

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI2BB1X1P4H7H	0.00000	0.02325	0.03813

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2BB1X1P4H7H	A0->YN (RR)	0.07138	0.23936	0.64845
	A1->YN (RR)	0.06869	0.23469	0.63884
	B0->YN (FR)	0.03683	0.20981	0.73055

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2BB1X1P4H7H	A0->YN (FF)	0.10463	0.21005	0.46130
	A1->YN (FF)	0.09849	0.20141	0.44646
	B0->YN (RF)	0.01646	0.11323	0.46327

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2BB1X1P4H7H	A0	0.00091	0.00097	0.00103
	A0	-0.00003	-0.00003	-0.00003
	A0	0.00003	0.00003	0.00003
	A0	0.00138	0.00144	0.00150
	A1	0.00093	0.00099	0.00104
	A1	-0.00010	-0.00009	-0.00009
	A1	0.00003	0.00003	0.00003
	A1	0.00125	0.00131	0.00136
	B0	0.00078	0.00084	0.00089
	B0	-0.00004	-0.00003	-0.00003
	B0	0.00007	0.00007	0.00008
	B0	-0.00009	-0.00004	0.00001

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2BB1X1P4H7H	A0	0.00143	0.00149	0.00155
	A0	0.00003	0.00003	0.00003
	A0	-0.00003	-0.00003	-0.00003
	A0	0.00091	0.00097	0.00103
	A1	0.00127	0.00131	0.00137
	A1	0.00009	0.00009	0.00010
	A1	-0.00003	-0.00003	-0.00003
	A1	0.00092	0.00096	0.00102
	B0	-0.00016	-0.00011	-0.00007
	B0	0.00003	0.00004	0.00004
	B0	-0.00007	-0.00007	-0.00007
	B0	0.00073	0.00077	0.00082

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X1P4H7H	(A1 * B0 * !YN) + (A1 * !B0 * YN)	-0.00009	-0.00008	-0.00007
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	0.00031	0.00031	0.00032
	(!A1 * B0 * !YN)	0.00001	0.00003	0.00007
	(!A1 * B0 * !YN)	0.00009	0.00010	0.00011
	(!A1 * B0 * !YN)	-0.00005	-0.00005	-0.00005
	(!A1 * B0 * !YN)	0.00102	0.00104	0.00107

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X1P4H7H	(A1 * B0 * !YN) + (A1 * !B0 * YN)	0.00009	0.00009	0.00009
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	0.00002	0.00002	0.00002
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	-0.00031	-0.00031	-0.00031
	(!A1 * B0 * !YN)	0.00126	0.00128	0.00132
	(!A1 * B0 * !YN)	-0.00010	-0.00009	-0.00009
	(!A1 * B0 * !YN)	0.00005	0.00005	0.00005
	(!A1 * B0 * !YN)	0.00023	0.00026	0.00029

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X1P4H7H	(A0 * B0 * !YN) + (A0 * !B0 * YN)	-0.00000	0.00000	0.00000
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	0.00000	0.00000	0.00000
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	0.00033	0.00033	0.00033
	(!A0 * B0 * !YN)	0.00003	0.00005	0.00008
	(!A0 * B0 * !YN)	0.00005	0.00005	0.00005
	(!A0 * B0 * !YN)	-0.00005	-0.00005	-0.00005
	(!A0 * B0 * !YN)	0.00089	0.00092	0.00094

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X1P4H7H	(A0 * B0 * !YN) + (A0 * !B0 * YN)	0.00000	0.00000	0.00000
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	0.00003	0.00003	0.00003
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	-0.00033	-0.00033	-0.00032
	(!A0 * B0 * !YN)	0.00111	0.00113	0.00116
	(!A0 * B0 * !YN)	-0.00005	-0.00005	-0.00005
	(!A0 * B0 * !YN)	0.00005	0.00005	0.00005
	(!A0 * B0 * !YN)	0.00023	0.00026	0.00029

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X1P4H7H	(!A0 * !A1 * !YN)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !YN)	-0.00005	-0.00005	-0.00004
	(!A0 * !A1 * !YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !YN)	0.00042	0.00042	0.00042

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X1P4H7H	(!A0 * !A1 * !YN)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !YN)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !YN)	-0.00042	-0.00042	-0.00041

AOI2BB1X2H7H

Cell Description

AOI

Y=(A0N & A1N)+B0

Truth Table

INPUT			OUTPUT
A0	A1	B0	YN
0	0	x	0
x	1	0	1
x	1	1	0
1	x	0	1
1	x	1	0

Footprint

Cell Name	Area
AOI2BB1X2H7H	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	YN
AOI2BB1X2H7H	0.00088	0.00095	0.00119	0.02743

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI2BB1X2H7H	0.00000	0.03105	0.05711

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2BB1X2H7H	A0->YN (RR)	0.06763	0.23698	0.64970
	A1->YN (RR)	0.06613	0.23358	0.64122
	B0->YN (FR)	0.03334	0.20733	0.73220

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2BB1X2H7H	A0->YN (FF)	0.10168	0.20805	0.45992
	A1->YN (FF)	0.09917	0.20237	0.44844
	B0->YN (RF)	0.01513	0.11081	0.46121

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2BB1X2H7H	A0	0.00100	0.00106	0.00111
	A0	-0.00007	-0.00006	-0.00005
	A0	0.00004	0.00004	0.00004
	A0	0.00138	0.00143	0.00149
	A1	0.00099	0.00105	0.00112
	A1	-0.00011	-0.00011	-0.00011
	A1	0.00004	0.00004	0.00004
	A1	0.00125	0.00131	0.00138
	B0	0.00081	0.00088	0.00094
	B0	-0.00005	-0.00004	-0.00004
	B0	0.00008	0.00009	0.00009
	B0	-0.00014	-0.00009	-0.00004

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2BB1X2H7H	A0	0.00141	0.00147	0.00152
	A0	0.00005	0.00006	0.00007
	A0	-0.00004	-0.00004	-0.00004
	A0	0.00098	0.00103	0.00109
	A1	0.00128	0.00134	0.00140
	A1	0.00011	0.00011	0.00011
	A1	-0.00004	-0.00004	-0.00004
	A1	0.00099	0.00104	0.00110
	B0	-0.00018	-0.00012	-0.00008
	B0	0.00004	0.00004	0.00007
	B0	-0.00009	-0.00009	-0.00008
	B0	0.00079	0.00085	0.00089

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X2H7H	(A1 * B0 * !YN) + (A1 * !B0 * YN)	-0.00009	-0.00008	-0.00007
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	0.00030	0.00031	0.00031
	(!A1 * B0 * !YN)	0.00005	0.00006	0.00009
	(!A1 * B0 * !YN)	0.00010	0.00010	0.00011
	(!A1 * B0 * !YN)	-0.00005	-0.00005	-0.00005
	(!A1 * B0 * !YN)	0.00105	0.00107	0.00109

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X2H7H	(A1 * B0 * !YN) + (A1 * !B0 * YN)	0.00009	0.00009	0.00009
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	0.00002	0.00002	0.00002
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	-0.00031	-0.00030	-0.00030
	(!A1 * B0 * !YN)	0.00124	0.00126	0.00129
	(!A1 * B0 * !YN)	-0.00010	-0.00010	-0.00010
	(!A1 * B0 * !YN)	0.00005	0.00005	0.00006
	(!A1 * B0 * !YN)	0.00023	0.00025	0.00028

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X2H7H	(A0 * B0 * !YN) + (A0 * !B0 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	0.00000	0.00000	0.00000
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	0.00035	0.00036	0.00036
	(!A0 * B0 * !YN)	0.00004	0.00006	0.00010
	(!A0 * B0 * !YN)	0.00005	0.00006	0.00006
	(!A0 * B0 * !YN)	-0.00005	-0.00005	-0.00005
	(!A0 * B0 * !YN)	0.00093	0.00095	0.00099

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X2H7H	(A0 * B0 * !YN) + (A0 * !B0 * YN)	0.00000	0.00000	0.00000
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	0.00003	0.00003	0.00003
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	-0.00000	-0.00000	0.00000
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	-0.00036	-0.00036	-0.00035
	(!A0 * B0 * !YN)	0.00113	0.00115	0.00118
	(!A0 * B0 * !YN)	-0.00006	-0.00006	-0.00005
	(!A0 * B0 * !YN)	0.00005	0.00005	0.00005
	(!A0 * B0 * !YN)	0.00023	0.00026	0.00028

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X2H7H	(!A0 * !A1 * !YN)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !YN)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !YN)	0.00044	0.00045	0.00045

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X2H7H	(!A0 * !A1 * !YN)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !YN)	0.00005	0.00006	0.00006
	(!A0 * !A1 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !YN)	-0.00045	-0.00045	-0.00044

AOI2BB1X3H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

AOI

Y=(A0N & A1N)+B0

Truth Table

INPUT			OUTPUT
A0	A1	B0	YN
0	0	x	0
x	1	0	1
x	1	1	0
1	x	0	1
1	x	1	0

Footprint

Cell Name	Area
AOI2BB1X3H7H	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	YN
AOI2BB1X3H7H	0.00104	0.00096	0.00203	0.04312

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI2BB1X3H7H	0.00000	0.03694	0.05487

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2BB1X3H7H	A0->YN (RR)	0.07443	0.24926	0.67698
	A1->YN (RR)	0.07184	0.24512	0.66862
	B0->YN (FR)	0.03301	0.20572	0.72978

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2BB1X3H7H	A0->YN (FF)	0.11330	0.22379	0.48640
	A1->YN (FF)	0.10748	0.21596	0.47410
	B0->YN (RF)	0.01495	0.10945	0.45719

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2BB1X3H7H	A0	0.00198	0.00207	0.00215
	A0	-0.00010	-0.00010	-0.00008
	A0	0.00007	0.00007	0.00007
	A0	0.00212	0.00220	0.00229
	A1	0.00199	0.00208	0.00217
	A1	-0.00018	-0.00017	-0.00015
	A1	0.00007	0.00007	0.00008
	A1	0.00194	0.00203	0.00212
	B0	0.00154	0.00162	0.00172
	B0	-0.00007	-0.00006	-0.00005
	B0	0.00013	0.00013	0.00013
	B0	-0.00010	-0.00001	0.00008

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2BB1X3H7H	A0	0.00202	0.00212	0.00221
	A0	0.00008	0.00010	0.00010
	A0	-0.00007	-0.00007	-0.00007
	A0	0.00178	0.00188	0.00197
	A1	0.00183	0.00191	0.00199
	A1	0.00015	0.00017	0.00018
	A1	-0.00008	-0.00007	-0.00007
	A1	0.00181	0.00188	0.00197
	B0	-0.00032	-0.00022	-0.00015
	B0	0.00005	0.00006	0.00007
	B0	-0.00013	-0.00013	-0.00013
	B0	0.00129	0.00141	0.00149

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X3H7H	(A1 * B0 * !YN) + (A1 * !B0 * YN)	-0.00011	-0.00010	-0.00009
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	0.00000	0.00001	0.00002
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	0.00035	0.00035	0.00035
	(!A1 * B0 * !YN)	0.00015	0.00018	0.00021
	(!A1 * B0 * !YN)	0.00014	0.00015	0.00016
	(!A1 * B0 * !YN)	-0.00007	-0.00007	-0.00006
	(!A1 * B0 * !YN)	0.00136	0.00138	0.00141

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X3H7H	(A1 * B0 * !YN) + (A1 * !B0 * YN)	0.00011	0.00011	0.00011
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	0.00002	0.00002	0.00002
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	-0.00000	-0.00000	0.00001
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	-0.00035	-0.00035	-0.00035
	(!A1 * B0 * !YN)	0.00167	0.00171	0.00174
	(!A1 * B0 * !YN)	-0.00015	-0.00015	-0.00014
	(!A1 * B0 * !YN)	0.00006	0.00007	0.00007
	(!A1 * B0 * !YN)	0.00045	0.00048	0.00053

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X3H7H	(A0 * B0 * !YN) + (A0 * !B0 * YN)	-0.00000	-0.00000	0.00000
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	-0.00004	-0.00004	-0.00004
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	0.00000	0.00001	0.00000
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	0.00036	0.00036	0.00036
	(!A0 * B0 * !YN)	0.00017	0.00020	0.00023
	(!A0 * B0 * !YN)	0.00009	0.00009	0.00009
	(!A0 * B0 * !YN)	-0.00007	-0.00007	-0.00007
	(!A0 * B0 * !YN)	0.00119	0.00122	0.00125

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X3H7H	(A0 * B0 * !YN) + (A0 * !B0 * YN)	0.00000	0.00000	0.00000
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	0.00004	0.00004	0.00004
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	-0.00000	-0.00001	-0.00000
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	-0.00036	-0.00036	-0.00036
	(!A0 * B0 * !YN)	0.00149	0.00152	0.00156
	(!A0 * B0 * !YN)	-0.00009	-0.00009	-0.00009
	(!A0 * B0 * !YN)	0.00007	0.00007	0.00007
	(!A0 * B0 * !YN)	0.00046	0.00049	0.00053

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X3H7H	(!A0 * !A1 * !YN)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * !YN)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * !YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !YN)	0.00075	0.00076	0.00076

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X3H7H	(!A0 * !A1 * !YN)	0.00008	0.00008	0.00008
	(!A0 * !A1 * !YN)	0.00009	0.00009	0.00009
	(!A0 * !A1 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !YN)	-0.00076	-0.00075	-0.00075

AOI2BB1X4H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

AOI

Y=(A0N & A1N)+B0

Truth Table

INPUT			OUTPUT
A0	A1	B0	YN
0	0	x	0
x	1	0	1
x	1	1	0
1	x	0	1
1	x	1	0

Footprint

Cell Name	Area
AOI2BB1X4H7H	3.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	YN
AOI2BB1X4H7H	0.00105	0.00113	0.00234	0.05412

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI2BB1X4H7H	0.00000	0.06187	0.10545

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2BB1X4H7H	A0->YN (RR)	0.06767	0.24297	0.67150
	A1->YN (RR)	0.06584	0.23939	0.66267
	B0->YN (FR)	0.02947	0.20347	0.73209

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2BB1X4H7H	A0->YN (FF)	0.10299	0.21369	0.47516
	A1->YN (FF)	0.09969	0.20748	0.46296
	B0->YN (RF)	0.01372	0.10795	0.45810

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2BB1X4H7H	A0	0.00227	0.00236	0.00245
	A0	-0.00016	-0.00014	-0.00012
	A0	0.00010	0.00010	0.00010
	A0	0.00228	0.00237	0.00246
	A1	0.00226	0.00236	0.00246
	A1	-0.00024	-0.00022	-0.00021
	A1	0.00010	0.00010	0.00011
	A1	0.00210	0.00220	0.00230
	B0	0.00170	0.00184	0.00196
	B0	-0.00009	-0.00009	-0.00008
	B0	0.00017	0.00017	0.00018
	B0	-0.00017	-0.00007	0.00003

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2BB1X4H7H	A0	0.00221	0.00231	0.00240
	A0	0.00012	0.00014	0.00016
	A0	-0.00010	-0.00010	-0.00010
	A0	0.00207	0.00218	0.00227
	A1	0.00200	0.00209	0.00219
	A1	0.00021	0.00022	0.00024
	A1	-0.00010	-0.00010	-0.00010
	A1	0.00207	0.00216	0.00227
	B0	-0.00041	-0.00029	-0.00020
	B0	0.00008	0.00009	0.00010
	B0	-0.00018	-0.00017	-0.00017
	B0	0.00148	0.00161	0.00171

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X4H7H	(A1 * B0 * !YN) + (A1 * !B0 * YN)	-0.00014	-0.00013	-0.00011
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	0.00001	0.00001	0.00001
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	0.00033	0.00033	0.00034
	(!A1 * B0 * !YN)	0.00019	0.00021	0.00025
	(!A1 * B0 * !YN)	0.00018	0.00018	0.00019
	(!A1 * B0 * !YN)	-0.00009	-0.00009	-0.00008
	(!A1 * B0 * !YN)	0.00151	0.00153	0.00156

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X4H7H	(A1 * B0 * !YN) + (A1 * !B0 * YN)	0.00014	0.00014	0.00014
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	0.00003	0.00003	0.00003
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	-0.00001	-0.00001	0.00000
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	-0.00034	-0.00033	-0.00033
	(!A1 * B0 * !YN)	0.00184	0.00187	0.00190
	(!A1 * B0 * !YN)	-0.00019	-0.00018	-0.00018
	(!A1 * B0 * !YN)	0.00008	0.00009	0.00009
	(!A1 * B0 * !YN)	0.00050	0.00053	0.00057

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X4H7H	(A0 * B0 * !YN) + (A0 * !B0 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	-0.00004	-0.00004	-0.00004
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	0.00000	0.00001	0.00001
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	0.00041	0.00041	0.00041
	(!A0 * B0 * !YN)	0.00018	0.00022	0.00025
	(!A0 * B0 * !YN)	0.00010	0.00011	0.00012
	(!A0 * B0 * !YN)	-0.00009	-0.00009	-0.00009
	(!A0 * B0 * !YN)	0.00133	0.00137	0.00140

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X4H7H	(A0 * B0 * !YN) + (A0 * !B0 * YN)	0.00000	0.00000	0.00000
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	0.00005	0.00005	0.00005
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	-0.00041	-0.00041	-0.00040
	(!A0 * B0 * !YN)	0.00165	0.00169	0.00174
	(!A0 * B0 * !YN)	-0.00012	-0.00011	-0.00010
	(!A0 * B0 * !YN)	0.00009	0.00009	0.00009
	(!A0 * B0 * !YN)	0.00049	0.00052	0.00057

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X4H7H	(!A0 * !A1 * !YN)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * !YN)	-0.00011	-0.00011	-0.00011
	(!A0 * !A1 * !YN)	0.00001	0.00001	0.00002
	(!A0 * !A1 * !YN)	0.00084	0.00085	0.00085

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X4H7H	(!A0 * !A1 * !YN)	0.00009	0.00009	0.00009
	(!A0 * !A1 * !YN)	0.00012	0.00012	0.00012
	(!A0 * !A1 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !YN)	-0.00085	-0.00085	-0.00083

AOI2BB1X6H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

AOI

Y=(A0N & A1N)+B0

Truth Table

INPUT			OUTPUT
A0	A1	B0	YN
0	0	x	0
x	1	0	1
x	1	1	0
1	x	0	1
1	x	1	0

Footprint

Cell Name	Area
AOI2BB1X6H7H	3.92000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	YN
AOI2BB1X6H7H	0.00124	0.00122	0.00337	0.08158

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI2BB1X6H7H	0.00000	0.09177	0.15525

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2BB1X6H7H	A0->YN (RR)	0.06981	0.24930	0.68908
	A1->YN (RR)	0.06765	0.24560	0.68095
	B0->YN (FR)	0.02689	0.20082	0.73137

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2BB1X6H7H	A0->YN (FF)	0.11290	0.22863	0.50227
	A1->YN (FF)	0.10848	0.22179	0.49089
	B0->YN (RF)	0.01288	0.10669	0.45861

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2BB1X6H7H	A0	0.00330	0.00343	0.00357
	A0	-0.00025	-0.00024	-0.00021
	A0	0.00017	0.00018	0.00018
	A0	0.00296	0.00309	0.00323
	A1	0.00331	0.00346	0.00360
	A1	-0.00035	-0.00034	-0.00034
	A1	0.00017	0.00018	0.00018
	A1	0.00271	0.00285	0.00299
	B0	0.00240	0.00263	0.00281
	B0	-0.00014	-0.00013	-0.00011
	B0	0.00026	0.00026	0.00027
	B0	-0.00028	-0.00013	0.00002

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2BB1X6H7H	A0	0.00292	0.00306	0.00318
	A0	0.00021	0.00024	0.00025
	A0	-0.00018	-0.00018	-0.00017
	A0	0.00308	0.00322	0.00335
	A1	0.00264	0.00277	0.00290
	A1	0.00034	0.00034	0.00035
	A1	-0.00018	-0.00018	-0.00017
	A1	0.00311	0.00324	0.00338
	B0	-0.00060	-0.00042	-0.00029
	B0	0.00011	0.00013	0.00015
	B0	-0.00026	-0.00026	-0.00026
	B0	0.00212	0.00233	0.00248

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X6H7H	(A1 * B0 * !YN) + (A1 * !B0 * YN)	-0.00018	-0.00016	-0.00014
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	-0.00004	-0.00003	-0.00003
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	0.00000	0.00001	0.00001
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	0.00039	0.00039	0.00040
	(!A1 * B0 * !YN)	0.00032	0.00034	0.00037
	(!A1 * B0 * !YN)	0.00024	0.00024	0.00025
	(!A1 * B0 * !YN)	-0.00011	-0.00011	-0.00011
	(!A1 * B0 * !YN)	0.00190	0.00193	0.00197

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X6H7H	(A1 * B0 * !YN) + (A1 * !B0 * YN)	0.00017	0.00017	0.00018
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	0.00003	0.00003	0.00004
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	-0.00001	-0.00001	0.00000
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	-0.00039	-0.00039	-0.00038
	(!A1 * B0 * !YN)	0.00238	0.00242	0.00248
	(!A1 * B0 * !YN)	-0.00025	-0.00024	-0.00024
	(!A1 * B0 * !YN)	0.00011	0.00011	0.00012
	(!A1 * B0 * !YN)	0.00076	0.00080	0.00083

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X6H7H	(A0 * B0 * !YN) + (A0 * !B0 * YN)	-0.00000	-0.00000	0.00000
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	-0.00005	-0.00005	-0.00005
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	0.00001	0.00001	0.00001
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	0.00043	0.00043	0.00044
	(!A0 * B0 * !YN)	0.00033	0.00037	0.00041
	(!A0 * B0 * !YN)	0.00015	0.00015	0.00016
	(!A0 * B0 * !YN)	-0.00011	-0.00011	-0.00011
	(!A0 * B0 * !YN)	0.00166	0.00170	0.00174

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X6H7H	(A0 * B0 * !YN) + (A0 * !B0 * YN)	0.00000	0.00000	0.00001
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	0.00005	0.00006	0.00006
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	-0.00044	-0.00043	-0.00043
	(!A0 * B0 * !YN)	0.00213	0.00217	0.00223
	(!A0 * B0 * !YN)	-0.00016	-0.00015	-0.00015
	(!A0 * B0 * !YN)	0.00011	0.00011	0.00011
	(!A0 * B0 * !YN)	0.00078	0.00082	0.00087

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X6H7H	(!A0 * !A1 * !YN)	-0.00012	-0.00012	-0.00012
	(!A0 * !A1 * !YN)	-0.00017	-0.00017	-0.00016
	(!A0 * !A1 * !YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !YN)	0.00121	0.00122	0.00123

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X6H7H	(!A0 * !A1 * !YN)	0.00012	0.00012	0.00012
	(!A0 * !A1 * !YN)	0.00017	0.00017	0.00018
	(!A0 * !A1 * !YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !YN)	-0.00122	-0.00122	-0.00121

AOI2BB2X0P5H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

AOI

Y=(A0N & A1N)+ (B0 & B1)

Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	YN
0	0	x	x	0
x	1	0	x	1
x	1	1	0	1
x	1	1	1	0
1	x	0	x	1
1	x	1	0	1
1	x	1	1	0

Footprint

Cell Name	Area
AOI2BB2X0P5H7H	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	B1	YN
AOI2BB2X0P5H7H	0.00082	0.00099	0.00077	0.00084	0.01529

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI2BB2X0P5H7H	0.00000	0.01495	0.01740

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2BB2X0P5H7H	A0->YN (RR)	0.08310	0.24642	0.64156
	A1->YN (RR)	0.08314	0.24418	0.63360
	B0->YN (FR)	0.06172	0.24154	0.75318
	B1->YN (FR)	0.05745	0.23479	0.74662

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2BB2X0P5H7H	A0->YN (FF)	0.09623	0.19709	0.43467
	A1->YN (FF)	0.09654	0.19393	0.42517
	B0->YN (RF)	0.03987	0.17257	0.57070
	B1->YN (RF)	0.03859	0.16958	0.58276

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2BB2X0P5H7H	A0	0.00073	0.00078	0.00084
	A0	0.00004	0.00005	0.00005
	A0	0.00004	0.00004	0.00004
	A0	0.00136	0.00141	0.00147
	A1	0.00070	0.00077	0.00084
	A1	-0.00000	0.00000	0.00000
	A1	0.00004	0.00004	0.00004
	A1	0.00123	0.00130	0.00138
	B0	0.00107	0.00109	0.00110
	B0	-0.00008	-0.00008	-0.00008
	B0	0.00008	0.00008	0.00008
	B0	0.00017	0.00018	0.00019
	B1	0.00095	0.00098	0.00101
	B1	-0.00009	-0.00008	-0.00008
	B1	0.00005	0.00005	0.00005
	B1	0.00019	0.00022	0.00025

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2BB2X0P5H7H	A0	0.00135	0.00140	0.00146
	A0	-0.00005	-0.00005	-0.00004
	A0	-0.00000	-0.00000	0.00000
	A0	0.00071	0.00077	0.00083
	A1	0.00125	0.00132	0.00139
	A1	0.00000	0.00000	0.00001
	A1	-0.00000	-0.00000	0.00000
	A1	0.00074	0.00080	0.00087
	B0	-0.00009	-0.00007	-0.00006
	B0	0.00008	0.00008	0.00008
	B0	-0.00008	-0.00008	-0.00008
	B0	0.00078	0.00081	0.00083
	B1	-0.00011	-0.00008	-0.00006
	B1	0.00008	0.00008	0.00009
	B1	-0.00005	-0.00005	-0.00004
	B1	0.00058	0.00063	0.00066

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X0P5H7H	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	-0.00009	-0.00008	-0.00007
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	0.00030	0.00030	0.00031
	(!A1 * B0 * B1 * !YN)	-0.00009	-0.00008	-0.00006
	(!A1 * B0 * B1 * !YN)	0.00009	0.00009	0.00009
	(!A1 * B0 * B1 * !YN)	-0.00005	-0.00005	-0.00005
	(!A1 * B0 * B1 * !YN)	0.00088	0.00090	0.00091

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X0P5H7H	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	0.00009	0.00009	0.00009
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	-0.00030	-0.00030	-0.00030
	(!A1 * B0 * B1 * !YN)	0.00120	0.00121	0.00123
	(!A1 * B0 * B1 * !YN)	-0.00009	-0.00009	-0.00009
	(!A1 * B0 * B1 * !YN)	0.00005	0.00005	0.00006
	(!A1 * B0 * B1 * !YN)	0.00021	0.00022	0.00024

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X0P5H7H	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	-0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	0.00036	0.00037	0.00037
	(!A0 * B0 * B1 * !YN)	-0.00013	-0.00010	-0.00006
	(!A0 * B0 * B1 * !YN)	0.00005	0.00005	0.00005
	(!A0 * B0 * B1 * !YN)	-0.00005	-0.00005	-0.00005
	(!A0 * B0 * B1 * !YN)	0.00077	0.00080	0.00083

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X0P5H7H	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	-0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	0.00003	0.00003	0.00003
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	-0.00000	-0.00000	0.00000
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	-0.00037	-0.00037	-0.00036
	(!A0 * B0 * B1 * !YN)	0.00111	0.00114	0.00118
	(!A0 * B0 * B1 * !YN)	-0.00005	-0.00005	-0.00005
	(!A0 * B0 * B1 * !YN)	0.00005	0.00005	0.00005
	(!A0 * B0 * B1 * !YN)	0.00023	0.00025	0.00028

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X0P5H7H	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	-0.00015	-0.00015	-0.00015
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	-0.00001	-0.00001	-0.00000
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	0.00001	0.00001	0.00002
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	0.00023	0.00023	0.00023
	(!A0 * !A1 * B1 * !YN)	-0.00011	-0.00010	-0.00008
	(!A0 * !A1 * B1 * !YN)	-0.00003	-0.00002	-0.00002
	(!A0 * !A1 * B1 * !YN)	0.00000	0.00000	0.00000
	(!A0 * !A1 * B1 * !YN)	0.00026	0.00027	0.00027
	(!A0 * !A1 * !B1 * !YN)	-0.00015	-0.00015	-0.00015
	(!A0 * !A1 * !B1 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B1 * !YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B1 * !YN)	0.00023	0.00023	0.00023

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X0P5H7H	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	0.00015	0.00015	0.00016
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	0.00001	0.00001	0.00001
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	-0.00002	-0.00001	-0.00001
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	-0.00023	-0.00022	-0.00020
	(!A0 * !A1 * B1 * !YN)	0.00011	0.00011	0.00011
	(!A0 * !A1 * B1 * !YN)	0.00002	0.00002	0.00003
	(!A0 * !A1 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * B1 * !YN)	-0.00026	-0.00026	-0.00026
	(!A0 * !A1 * !B1 * !YN)	0.00015	0.00015	0.00015
	(!A0 * !A1 * !B1 * !YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B1 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B1 * !YN)	-0.00023	-0.00022	-0.00022

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X0P5H7H	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	-0.00024	-0.00024	-0.00023
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	0.00002	0.00003	0.00003
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	0.00006	0.00007	0.00007
	(!A0 * !A1 * B0 * !YN)	-0.00013	-0.00012	-0.00010
	(!A0 * !A1 * B0 * !YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !YN)	0.00000	0.00000	0.00001
	(!A0 * !A1 * B0 * !YN)	0.00024	0.00024	0.00024
	(!A0 * !A1 * !B0 * !YN)	-0.00016	-0.00016	-0.00016
	(!A0 * !A1 * !B0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * !YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * !YN)	0.00020	0.00020	0.00020

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X0P5H7H	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	0.00024	0.00024	0.00024
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	0.00001	0.00001	0.00001
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	-0.00003	-0.00002	-0.00002
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	-0.00007	-0.00007	-0.00006
	(!A0 * !A1 * B0 * !YN)	0.00013	0.00013	0.00013
	(!A0 * !A1 * B0 * !YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * B0 * !YN)	-0.00024	-0.00024	-0.00024
	(!A0 * !A1 * !B0 * !YN)	0.00016	0.00016	0.00017
	(!A0 * !A1 * !B0 * !YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * !YN)	-0.00020	-0.00020	-0.00019

AOI2BB2X0P7H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

AOI

Y=(A0N & A1N)+ (B0 & B1)

Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	YN
0	0	x	x	0
x	1	0	x	1
x	1	1	0	1
x	1	1	1	0
1	x	0	x	1
1	x	1	0	1
1	x	1	1	0

Footprint

Cell Name	Area
AOI2BB2X0P7H7H	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	B1	YN
AOI2BB2X0P7H7H	0.00082	0.00100	0.00081	0.00089	0.01741

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI2BB2X0P7H7H	0.00000	0.01678	0.02018

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2BB2X0P7H7H	A0->YN (RR)	0.07928	0.24413	0.64254
	A1->YN (RR)	0.07934	0.24194	0.63490
	B0->YN (FR)	0.05747	0.23788	0.75319
	B1->YN (FR)	0.05336	0.23128	0.74666

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2BB2X0P7H7H	A0->YN (FF)	0.09671	0.19900	0.43991
	A1->YN (FF)	0.09710	0.19589	0.43051
	B0->YN (RF)	0.03776	0.17286	0.57920
	B1->YN (RF)	0.03630	0.16855	0.58677

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2BB2X0P7H7H	A0	0.00078	0.00084	0.00090
	A0	0.00004	0.00004	0.00004
	A0	0.00005	0.00005	0.00005
	A0	0.00138	0.00144	0.00150
	A1	0.00075	0.00082	0.00090
	A1	-0.00000	-0.00000	-0.00000
	A1	0.00005	0.00005	0.00005
	A1	0.00126	0.00134	0.00141
	B0	0.00115	0.00116	0.00118
	B0	-0.00010	-0.00010	-0.00010
	B0	0.00010	0.00010	0.00010
	B0	0.00017	0.00018	0.00020
	B1	0.00102	0.00105	0.00108
	B1	-0.00010	-0.00010	-0.00010
	B1	0.00005	0.00005	0.00005
	B1	0.00019	0.00023	0.00026

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2BB2X0P7H7H	A0	0.00138	0.00144	0.00150
	A0	-0.00004	-0.00004	-0.00004
	A0	-0.00001	-0.00001	-0.00001
	A0	0.00078	0.00084	0.00090
	A1	0.00128	0.00135	0.00143
	A1	0.00000	0.00000	0.00001
	A1	-0.00001	-0.00001	-0.00001
	A1	0.00080	0.00087	0.00095
	B0	-0.00010	-0.00008	-0.00007
	B0	0.00010	0.00010	0.00010
	B0	-0.00010	-0.00010	-0.00010
	B0	0.00083	0.00087	0.00090
	B1	-0.00012	-0.00009	-0.00007
	B1	0.00010	0.00010	0.00010
	B1	-0.00005	-0.00005	-0.00005
	B1	0.00061	0.00068	0.00071

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X0P7H7H	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	-0.00009	-0.00008	-0.00007
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	0.00000	0.00001	0.00001
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	0.00030	0.00030	0.00031
	(!A1 * B0 * B1 * !YN)	-0.00010	-0.00008	-0.00006
	(!A1 * B0 * B1 * !YN)	0.00009	0.00010	0.00010
	(!A1 * B0 * B1 * !YN)	-0.00005	-0.00005	-0.00005
	(!A1 * B0 * B1 * !YN)	0.00089	0.00090	0.00092

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X0P7H7H	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	0.00009	0.00009	0.00009
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	-0.00030	-0.00030	-0.00030
	(!A1 * B0 * B1 * !YN)	0.00122	0.00124	0.00126
	(!A1 * B0 * B1 * !YN)	-0.00010	-0.00010	-0.00009
	(!A1 * B0 * B1 * !YN)	0.00005	0.00005	0.00005
	(!A1 * B0 * B1 * !YN)	0.00023	0.00024	0.00027

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X0P7H7H	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	-0.00000	-0.00000	0.00000
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	0.00000	0.00000	0.00001
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	0.00037	0.00037	0.00037
	(!A0 * B0 * B1 * !YN)	-0.00012	-0.00010	-0.00006
	(!A0 * B0 * B1 * !YN)	0.00005	0.00005	0.00005
	(!A0 * B0 * B1 * !YN)	-0.00005	-0.00005	-0.00005
	(!A0 * B0 * B1 * !YN)	0.00077	0.00080	0.00083

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X0P7H7H	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	-0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	0.00003	0.00003	0.00003
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	-0.00000	-0.00000	0.00000
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	-0.00037	-0.00037	-0.00036
	(!A0 * B0 * B1 * !YN)	0.00114	0.00117	0.00120
	(!A0 * B0 * B1 * !YN)	-0.00005	-0.00005	-0.00005
	(!A0 * B0 * B1 * !YN)	0.00005	0.00005	0.00005
	(!A0 * B0 * B1 * !YN)	0.00024	0.00027	0.00031

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X0P7H7H	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	-0.00016	-0.00016	-0.00016
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	0.00001	0.00001	0.00002
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	0.00023	0.00024	0.00024
	(!A0 * !A1 * B1 * !YN)	-0.00012	-0.00011	-0.00009
	(!A0 * !A1 * B1 * !YN)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * B1 * !YN)	0.00000	0.00000	0.00001
	(!A0 * !A1 * B1 * !YN)	0.00027	0.00028	0.00028
	(!A0 * !A1 * !B1 * !YN)	-0.00016	-0.00016	-0.00016
	(!A0 * !A1 * !B1 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B1 * !YN)	0.00001	0.00002	0.00002
	(!A0 * !A1 * !B1 * !YN)	0.00024	0.00024	0.00024

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X0P7H7H	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	0.00016	0.00016	0.00017
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	0.00001	0.00001	0.00001
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	-0.00002	-0.00001	-0.00001
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	-0.00024	-0.00023	-0.00022
	(!A0 * !A1 * B1 * !YN)	0.00012	0.00012	0.00012
	(!A0 * !A1 * B1 * !YN)	0.00002	0.00003	0.00003
	(!A0 * !A1 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * B1 * !YN)	-0.00028	-0.00028	-0.00027
	(!A0 * !A1 * !B1 * !YN)	0.00016	0.00016	0.00016
	(!A0 * !A1 * !B1 * !YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B1 * !YN)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * !B1 * !YN)	-0.00024	-0.00023	-0.00022

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X0P7H7H	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	-0.00026	-0.00026	-0.00025
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	0.00002	0.00003	0.00003
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	0.00007	0.00007	0.00007
	(!A0 * !A1 * B0 * !YN)	-0.00014	-0.00013	-0.00010
	(!A0 * !A1 * B0 * !YN)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * B0 * !YN)	0.00000	0.00000	0.00000
	(!A0 * !A1 * B0 * !YN)	0.00025	0.00025	0.00026
	(!A0 * !A1 * !B0 * !YN)	-0.00018	-0.00018	-0.00017
	(!A0 * !A1 * !B0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * !YN)	0.00001	0.00002	0.00002
	(!A0 * !A1 * !B0 * !YN)	0.00021	0.00021	0.00022

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X0P7H7H	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	0.00025	0.00026	0.00026
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	0.00001	0.00001	0.00001
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	-0.00003	-0.00003	-0.00002
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * B0 * !YN)	0.00014	0.00014	0.00014
	(!A0 * !A1 * B0 * !YN)	0.00002	0.00003	0.00003
	(!A0 * !A1 * B0 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * B0 * !YN)	-0.00025	-0.00025	-0.00025
	(!A0 * !A1 * !B0 * !YN)	0.00017	0.00018	0.00018
	(!A0 * !A1 * !B0 * !YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * !YN)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * !B0 * !YN)	-0.00022	-0.00021	-0.00019

AOI2BB2X1H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

AOI

Y=(A0N & A1N)+ (B0 & B1)

Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	YN
0	0	x	x	0
x	1	0	x	1
x	1	1	0	1
x	1	1	1	0
1	x	0	x	1
1	x	1	0	1
1	x	1	1	0

Footprint

Cell Name	Area
AOI2BB2X1H7H	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	B1	YN
AOI2BB2X1H7H	0.00082	0.00099	0.00088	0.00096	0.02084

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI2BB2X1H7H	0.00000	0.02085	0.02919

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2BB2X1H7H	A0->YN (RR)	0.07461	0.24140	0.64531
	A1->YN (RR)	0.07457	0.23925	0.63707
	B0->YN (FR)	0.05252	0.23386	0.75401
	B1->YN (FR)	0.04838	0.22721	0.74659

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2BB2X1H7H	A0->YN (FF)	0.09770	0.20303	0.45123
	A1->YN (FF)	0.09836	0.20030	0.44216
	B0->YN (RF)	0.03586	0.17539	0.59534
	B1->YN (RF)	0.03403	0.16992	0.59968

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2BB2X1H7H	A0	0.00086	0.00092	0.00098
	A0	0.00003	0.00003	0.00004
	A0	0.00007	0.00007	0.00007
	A0	0.00143	0.00149	0.00155
	A1	0.00083	0.00091	0.00099
	A1	-0.00001	-0.00001	-0.00000
	A1	0.00007	0.00007	0.00007
	A1	0.00131	0.00138	0.00146
	B0	0.00127	0.00129	0.00131
	B0	-0.00013	-0.00012	-0.00012
	B0	0.00011	0.00011	0.00011
	B0	0.00019	0.00021	0.00022
	B1	0.00113	0.00116	0.00120
	B1	-0.00012	-0.00012	-0.00012
	B1	0.00006	0.00006	0.00006
	B1	0.00021	0.00025	0.00029

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2BB2X1H7H	A0	0.00141	0.00147	0.00154
	A0	-0.00004	-0.00003	-0.00003
	A0	-0.00002	-0.00002	-0.00001
	A0	0.00085	0.00092	0.00098
	A1	0.00131	0.00138	0.00147
	A1	0.00001	0.00001	0.00002
	A1	-0.00002	-0.00002	-0.00001
	A1	0.00087	0.00094	0.00103
	B0	-0.00012	-0.00010	-0.00008
	B0	0.00012	0.00012	0.00013
	B0	-0.00011	-0.00011	-0.00011
	B0	0.00091	0.00097	0.00102
	B1	-0.00014	-0.00011	-0.00008
	B1	0.00012	0.00012	0.00012
	B1	-0.00006	-0.00006	-0.00006
	B1	0.00069	0.00074	0.00078

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X1H7H	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	-0.00009	-0.00008	-0.00007
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	0.00030	0.00030	0.00031
	(!A1 * B0 * B1 * !YN)	-0.00009	-0.00008	-0.00006
	(!A1 * B0 * B1 * !YN)	0.00010	0.00010	0.00010
	(!A1 * B0 * B1 * !YN)	-0.00005	-0.00005	-0.00005
	(!A1 * B0 * B1 * !YN)	0.00090	0.00092	0.00093

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X1H7H	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	0.00009	0.00009	0.00009
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	-0.00030	-0.00030	-0.00030
	(!A1 * B0 * B1 * !YN)	0.00125	0.00127	0.00130
	(!A1 * B0 * B1 * !YN)	-0.00010	-0.00010	-0.00010
	(!A1 * B0 * B1 * !YN)	0.00005	0.00005	0.00006
	(!A1 * B0 * B1 * !YN)	0.00025	0.00026	0.00028

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X1H7H	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	-0.00000	-0.00000	0.00000
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	0.00037	0.00037	0.00037
	(!A0 * B0 * B1 * !YN)	-0.00012	-0.00010	-0.00006
	(!A0 * B0 * B1 * !YN)	0.00006	0.00006	0.00006
	(!A0 * B0 * B1 * !YN)	-0.00005	-0.00005	-0.00005
	(!A0 * B0 * B1 * !YN)	0.00079	0.00081	0.00084

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X1H7H	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	-0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	0.00003	0.00003	0.00003
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	-0.00000	-0.00000	0.00000
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	-0.00037	-0.00037	-0.00037
	(!A0 * B0 * B1 * !YN)	0.00117	0.00120	0.00124
	(!A0 * B0 * B1 * !YN)	-0.00006	-0.00006	-0.00006
	(!A0 * B0 * B1 * !YN)	0.00005	0.00005	0.00005
	(!A0 * B0 * B1 * !YN)	0.00027	0.00029	0.00033

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X1H7H	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	-0.00019	-0.00018	-0.00018
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	0.00001	0.00001	0.00002
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	0.00025	0.00026	0.00026
	(!A0 * !A1 * B1 * !YN)	-0.00014	-0.00013	-0.00010
	(!A0 * !A1 * B1 * !YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B1 * !YN)	0.00000	0.00001	0.00001
	(!A0 * !A1 * B1 * !YN)	0.00029	0.00029	0.00029
	(!A0 * !A1 * !B1 * !YN)	-0.00018	-0.00018	-0.00018
	(!A0 * !A1 * !B1 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B1 * !YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !B1 * !YN)	0.00025	0.00025	0.00025

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X1H7H	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	0.00019	0.00019	0.00019
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	0.00001	0.00001	0.00001
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	-0.00002	-0.00001	-0.00001
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	-0.00025	-0.00024	-0.00023
	(!A0 * !A1 * B1 * !YN)	0.00014	0.00014	0.00014
	(!A0 * !A1 * B1 * !YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B1 * !YN)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * B1 * !YN)	-0.00029	-0.00029	-0.00029
	(!A0 * !A1 * !B1 * !YN)	0.00018	0.00018	0.00019
	(!A0 * !A1 * !B1 * !YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B1 * !YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !B1 * !YN)	-0.00025	-0.00024	-0.00023

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X1H7H	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	-0.00028	-0.00028	-0.00028
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	0.00003	0.00003	0.00003
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	0.00007	0.00007	0.00007
	(!A0 * !A1 * B0 * !YN)	-0.00016	-0.00015	-0.00012
	(!A0 * !A1 * B0 * !YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B0 * !YN)	0.00000	0.00001	0.00001
	(!A0 * !A1 * B0 * !YN)	0.00026	0.00026	0.00027
	(!A0 * !A1 * !B0 * !YN)	-0.00020	-0.00020	-0.00020
	(!A0 * !A1 * !B0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * !YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !B0 * !YN)	0.00022	0.00022	0.00022

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X1H7H	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	0.00028	0.00028	0.00028
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	0.00001	0.00001	0.00001
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	-0.00003	-0.00003	-0.00003
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * B0 * !YN)	0.00016	0.00016	0.00016
	(!A0 * !A1 * B0 * !YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B0 * !YN)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * B0 * !YN)	-0.00026	-0.00026	-0.00026
	(!A0 * !A1 * !B0 * !YN)	0.00020	0.00020	0.00020
	(!A0 * !A1 * !B0 * !YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * !YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !B0 * !YN)	-0.00022	-0.00021	-0.00020

AOI2BB2X1P4H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

AOI

Y=(A0N & A1N)+ (B0 & B1)

Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	YN
0	0	x	x	0
x	1	0	x	1
x	1	1	0	1
x	1	1	1	0
1	x	0	x	1
1	x	1	0	1
1	x	1	1	0

Footprint

Cell Name	Area
AOI2BB2X1P4H7H	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	B1	YN
AOI2BB2X1P4H7H	0.00082	0.00099	0.00095	0.00103	0.02370

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI2BB2X1P4H7H	0.00000	0.02606	0.04029

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2BB2X1P4H7H	A0->YN (RR)	0.07237	0.24047	0.64749
	A1->YN (RR)	0.07227	0.23834	0.63946
	B0->YN (FR)	0.04984	0.23175	0.75430
	B1->YN (FR)	0.04563	0.22503	0.74746

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2BB2X1P4H7H	A0->YN (FF)	0.09882	0.20571	0.45736
	A1->YN (FF)	0.09956	0.20309	0.44908
	B0->YN (RF)	0.03423	0.17496	0.60054
	B1->YN (RF)	0.03226	0.16886	0.59994

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2BB2X1P4H7H	A0	0.00094	0.00101	0.00107
	A0	0.00002	0.00003	0.00003
	A0	0.00009	0.00009	0.00009
	A0	0.00147	0.00153	0.00159
	A1	0.00091	0.00099	0.00108
	A1	-0.00002	-0.00002	-0.00001
	A1	0.00008	0.00009	0.00009
	A1	0.00134	0.00142	0.00151
	B0	0.00139	0.00142	0.00143
	B0	-0.00014	-0.00014	-0.00014
	B0	0.00013	0.00013	0.00013
	B0	0.00020	0.00022	0.00024
	B1	0.00123	0.00127	0.00130
	B1	-0.00014	-0.00014	-0.00014
	B1	0.00007	0.00007	0.00007
	B1	0.00023	0.00027	0.00031

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2BB2X1P4H7H	A0	0.00144	0.00151	0.00158
	A0	-0.00003	-0.00003	-0.00002
	A0	-0.00003	-0.00003	-0.00002
	A0	0.00093	0.00100	0.00107
	A1	0.00134	0.00142	0.00151
	A1	0.00001	0.00002	0.00003
	A1	-0.00003	-0.00003	-0.00002
	A1	0.00095	0.00102	0.00111
	B0	-0.00014	-0.00011	-0.00009
	B0	0.00014	0.00014	0.00014
	B0	-0.00013	-0.00013	-0.00013
	B0	0.00101	0.00106	0.00108
	B1	-0.00016	-0.00012	-0.00009
	B1	0.00014	0.00014	0.00014
	B1	-0.00007	-0.00007	-0.00007
	B1	0.00073	0.00081	0.00085

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X1P4H7H	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	-0.00009	-0.00008	-0.00007
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	0.00000	0.00000	0.00001
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	0.00030	0.00030	0.00030
	(!A1 * B0 * B1 * !YN)	-0.00009	-0.00008	-0.00006
	(!A1 * B0 * B1 * !YN)	0.00010	0.00011	0.00011
	(!A1 * B0 * B1 * !YN)	-0.00005	-0.00005	-0.00004
	(!A1 * B0 * B1 * !YN)	0.00091	0.00092	0.00094

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X1P4H7H	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	0.00009	0.00009	0.00009
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	-0.00001	-0.00000	0.00000
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	-0.00030	-0.00030	-0.00030
	(!A1 * B0 * B1 * !YN)	0.00129	0.00130	0.00132
	(!A1 * B0 * B1 * !YN)	-0.00011	-0.00011	-0.00010
	(!A1 * B0 * B1 * !YN)	0.00004	0.00005	0.00005
	(!A1 * B0 * B1 * !YN)	0.00027	0.00029	0.00032

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X1P4H7H	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	-0.00000	-0.00000	0.00000
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	0.00037	0.00037	0.00037
	(!A0 * B0 * B1 * !YN)	-0.00012	-0.00010	-0.00006
	(!A0 * B0 * B1 * !YN)	0.00006	0.00006	0.00006
	(!A0 * B0 * B1 * !YN)	-0.00005	-0.00005	-0.00005
	(!A0 * B0 * B1 * !YN)	0.00079	0.00082	0.00085

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X1P4H7H	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	-0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	0.00003	0.00003	0.00003
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	-0.00000	-0.00000	0.00000
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	-0.00037	-0.00037	-0.00037
	(!A0 * B0 * B1 * !YN)	0.00121	0.00123	0.00127
	(!A0 * B0 * B1 * !YN)	-0.00006	-0.00006	-0.00006
	(!A0 * B0 * B1 * !YN)	0.00005	0.00005	0.00005
	(!A0 * B0 * B1 * !YN)	0.00029	0.00031	0.00035

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X1P4H7H	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	-0.00021	-0.00020	-0.00020
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	0.00001	0.00002	0.00002
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	0.00026	0.00027	0.00027
	(!A0 * !A1 * B1 * !YN)	-0.00016	-0.00014	-0.00012
	(!A0 * !A1 * B1 * !YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B1 * !YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * !YN)	0.00030	0.00031	0.00031
	(!A0 * !A1 * !B1 * !YN)	-0.00021	-0.00021	-0.00020
	(!A0 * !A1 * !B1 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B1 * !YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !B1 * !YN)	0.00026	0.00026	0.00026

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X1P4H7H	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	0.00021	0.00021	0.00022
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	0.00001	0.00001	0.00001
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	-0.00002	-0.00002	-0.00001
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	-0.00026	-0.00025	-0.00024
	(!A0 * !A1 * B1 * !YN)	0.00016	0.00016	0.00016
	(!A0 * !A1 * B1 * !YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * !YN)	-0.00030	-0.00030	-0.00030
	(!A0 * !A1 * !B1 * !YN)	0.00020	0.00021	0.00021
	(!A0 * !A1 * !B1 * !YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B1 * !YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !B1 * !YN)	-0.00026	-0.00025	-0.00024

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X1P4H7H	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	-0.00031	-0.00031	-0.00031
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	0.00003	0.00003	0.00004
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	0.00006	0.00007	0.00007
	(!A0 * !A1 * B0 * !YN)	-0.00018	-0.00016	-0.00013
	(!A0 * !A1 * B0 * !YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B0 * !YN)	0.00000	0.00001	0.00001
	(!A0 * !A1 * B0 * !YN)	0.00027	0.00028	0.00028
	(!A0 * !A1 * !B0 * !YN)	-0.00022	-0.00022	-0.00022
	(!A0 * !A1 * !B0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * !YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !B0 * !YN)	0.00023	0.00023	0.00023

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X1P4H7H	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	0.00031	0.00031	0.00031
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	0.00001	0.00001	0.00001
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	-0.00004	-0.00003	-0.00003
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	-0.00007	-0.00006	-0.00005
	(!A0 * !A1 * B0 * !YN)	0.00017	0.00018	0.00018
	(!A0 * !A1 * B0 * !YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B0 * !YN)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * B0 * !YN)	-0.00028	-0.00027	-0.00027
	(!A0 * !A1 * !B0 * !YN)	0.00022	0.00022	0.00022
	(!A0 * !A1 * !B0 * !YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * !YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !B0 * !YN)	-0.00023	-0.00022	-0.00021

AOI2BB2X2H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

AOI

Y=(A0N & A1N)+ (B0 & B1)

Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	YN
0	0	x	x	0
x	1	0	x	1
x	1	1	0	1
x	1	1	1	0
1	x	0	x	1
1	x	1	0	1
1	x	1	1	0

Footprint

Cell Name	Area
AOI2BB2X2H7H	3.64000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	B1	YN
AOI2BB2X2H7H	0.00092	0.00078	0.00167	0.00160	0.03049

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI2BB2X2H7H	0.00000	0.02317	0.02688

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2BB2X2H7H	A0->YN (RR)	0.07927	0.24917	0.65972
	A1->YN (RR)	0.07951	0.25111	0.66622
	B0->YN (FR)	0.05569	0.23583	0.75308
	B1->YN (FR)	0.04988	0.22790	0.74584

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2BB2X2H7H	A0->YN (FF)	0.11447	0.22154	0.47750
	A1->YN (FF)	0.11403	0.22395	0.48378
	B0->YN (RF)	0.03556	0.16833	0.57105
	B1->YN (RF)	0.03262	0.16356	0.58144

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2BB2X2H7H	A0	0.00145	0.00154	0.00165
	A0	-0.00002	-0.00002	-0.00001
	A0	0.00012	0.00012	0.00012
	A0	0.00159	0.00169	0.00179
	A1	0.00147	0.00155	0.00164
	A1	0.00002	0.00003	0.00003
	A1	0.00012	0.00012	0.00012
	A1	0.00173	0.00181	0.00190
	B0	0.00215	0.00219	0.00223
	B0	-0.00017	-0.00017	-0.00017
	B0	0.00017	0.00017	0.00017
	B0	0.00026	0.00029	0.00033
	B1	0.00185	0.00192	0.00198
	B1	-0.00017	-0.00017	-0.00016
	B1	0.00009	0.00009	0.00010
	B1	0.00034	0.00041	0.00047

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2BB2X2H7H	A0	0.00161	0.00171	0.00182
	A0	0.00001	0.00002	0.00003
	A0	-0.00005	-0.00005	-0.00004
	A0	0.00151	0.00161	0.00172
	A1	0.00171	0.00180	0.00189
	A1	-0.00003	-0.00003	-0.00002
	A1	-0.00005	-0.00005	-0.00004
	A1	0.00148	0.00156	0.00166
	B0	-0.00021	-0.00016	-0.00012
	B0	0.00017	0.00017	0.00017
	B0	-0.00017	-0.00017	-0.00014
	B0	0.00164	0.00169	0.00174
	B1	-0.00022	-0.00016	-0.00012
	B1	0.00016	0.00017	0.00017
	B1	-0.00009	-0.00009	-0.00009
	B1	0.00118	0.00125	0.00131

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X2H7H	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	0.00000	0.00001	0.00001
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	0.00033	0.00034	0.00034
	(!A1 * B0 * B1 * !YN)	-0.00012	-0.00009	-0.00006
	(!A1 * B0 * B1 * !YN)	0.00008	0.00009	0.00009
	(!A1 * B0 * B1 * !YN)	-0.00005	-0.00005	-0.00005
	(!A1 * B0 * B1 * !YN)	0.00080	0.00083	0.00085

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X2H7H	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	0.00003	0.00003	0.00003
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	-0.00001	-0.00000	-0.00000
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	-0.00034	-0.00034	-0.00033
	(!A1 * B0 * B1 * !YN)	0.00145	0.00147	0.00151
	(!A1 * B0 * B1 * !YN)	-0.00008	-0.00008	-0.00008
	(!A1 * B0 * B1 * !YN)	0.00005	0.00005	0.00006
	(!A1 * B0 * B1 * !YN)	0.00054	0.00056	0.00059

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X2H7H	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	-0.00009	-0.00008	-0.00007
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	0.00029	0.00029	0.00030
	(!A0 * B0 * B1 * !YN)	-0.00009	-0.00008	-0.00006
	(!A0 * B0 * B1 * !YN)	0.00013	0.00013	0.00013
	(!A0 * B0 * B1 * !YN)	-0.00005	-0.00005	-0.00004
	(!A0 * B0 * B1 * !YN)	0.00093	0.00095	0.00097

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X2H7H	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	0.00009	0.00009	0.00009
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	0.00002	0.00002	0.00002
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	-0.00000	-0.00000	0.00000
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	-0.00029	-0.00029	-0.00029
	(!A0 * B0 * B1 * !YN)	0.00153	0.00155	0.00157
	(!A0 * B0 * B1 * !YN)	-0.00013	-0.00013	-0.00013
	(!A0 * B0 * B1 * !YN)	0.00004	0.00005	0.00005
	(!A0 * B0 * B1 * !YN)	0.00050	0.00052	0.00055

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X2H7H	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	-0.00035	-0.00035	-0.00034
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	-0.00002	-0.00002	-0.00002
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	0.00002	0.00003	0.00003
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	0.00045	0.00045	0.00046
	(!A0 * !A1 * B1 * !YN)	-0.00025	-0.00023	-0.00019
	(!A0 * !A1 * B1 * !YN)	-0.00005	-0.00005	-0.00004
	(!A0 * !A1 * B1 * !YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * !YN)	0.00054	0.00055	0.00056
	(!A0 * !A1 * !B1 * !YN)	-0.00033	-0.00033	-0.00033
	(!A0 * !A1 * !B1 * !YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !B1 * !YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !B1 * !YN)	0.00045	0.00047	0.00047

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X2H7H	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	0.00035	0.00036	0.00037
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	0.00002	0.00002	0.00002
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	-0.00003	-0.00003	-0.00002
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	-0.00045	-0.00043	-0.00039
	(!A0 * !A1 * B1 * !YN)	0.00025	0.00025	0.00026
	(!A0 * !A1 * B1 * !YN)	0.00004	0.00005	0.00005
	(!A0 * !A1 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * !YN)	-0.00054	-0.00053	-0.00053
	(!A0 * !A1 * !B1 * !YN)	0.00033	0.00033	0.00033
	(!A0 * !A1 * !B1 * !YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !B1 * !YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !B1 * !YN)	-0.00047	-0.00045	-0.00043

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X2H7H	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	-0.00046	-0.00046	-0.00045
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	0.00004	0.00005	0.00005
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	0.00010	0.00011	0.00011
	(!A0 * !A1 * B0 * !YN)	-0.00021	-0.00019	-0.00015
	(!A0 * !A1 * B0 * !YN)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * B0 * !YN)	0.00000	0.00001	0.00001
	(!A0 * !A1 * B0 * !YN)	0.00049	0.00049	0.00050
	(!A0 * !A1 * !B0 * !YN)	-0.00027	-0.00027	-0.00026
	(!A0 * !A1 * !B0 * !YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !B0 * !YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !B0 * !YN)	0.00042	0.00042	0.00042

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X2H7H	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	0.00045	0.00046	0.00046
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	0.00002	0.00002	0.00002
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	-0.00005	-0.00005	-0.00004
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	-0.00011	-0.00010	-0.00010
	(!A0 * !A1 * B0 * !YN)	0.00021	0.00021	0.00021
	(!A0 * !A1 * B0 * !YN)	0.00004	0.00004	0.00004
	(!A0 * !A1 * B0 * !YN)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * B0 * !YN)	-0.00049	-0.00049	-0.00049
	(!A0 * !A1 * !B0 * !YN)	0.00026	0.00027	0.00027
	(!A0 * !A1 * !B0 * !YN)	0.00002	0.00002	0.00003
	(!A0 * !A1 * !B0 * !YN)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * !B0 * !YN)	-0.00042	-0.00041	-0.00039

AOI2BB2X3H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

AOI

Y=(A0N & A1N)+ (B0 & B1)

Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	YN
0	0	x	x	0
x	1	0	x	1
x	1	1	0	1
x	1	1	1	0
1	x	0	x	1
1	x	1	0	1
1	x	1	1	0

Footprint

Cell Name	Area
AOI2BB2X3H7H	3.64000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	B1	YN
AOI2BB2X3H7H	0.00098	0.00087	0.00187	0.00192	0.04356

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI2BB2X3H7H	0.00000	0.04196	0.05887

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2BB2X3H7H	A0->YN (RR)	0.06779	0.23877	0.65166
	A1->YN (RR)	0.06856	0.24140	0.65934
	B0->YN (FR)	0.04695	0.22834	0.75301
	B1->YN (FR)	0.04212	0.22166	0.74775

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2BB2X3H7H	A0->YN (FF)	0.10038	0.20870	0.46440
	A1->YN (FF)	0.10132	0.21272	0.47404
	B0->YN (RF)	0.03143	0.17061	0.59548
	B1->YN (RF)	0.02877	0.16391	0.59615

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2BB2X3H7H	A0	0.00175	0.00186	0.00197
	A0	-0.00004	-0.00004	-0.00002
	A0	0.00018	0.00018	0.00019
	A0	0.00178	0.00189	0.00200
	A1	0.00177	0.00186	0.00196
	A1	0.00002	0.00002	0.00002
	A1	0.00018	0.00018	0.00019
	A1	0.00195	0.00205	0.00214
	B0	0.00263	0.00267	0.00271
	B0	-0.00026	-0.00025	-0.00025
	B0	0.00024	0.00024	0.00024
	B0	0.00031	0.00036	0.00040
	B1	0.00226	0.00234	0.00242
	B1	-0.00025	-0.00025	-0.00025
	B1	0.00013	0.00013	0.00014
	B1	0.00037	0.00046	0.00053

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2BB2X3H7H	A0	0.00177	0.00188	0.00200
	A0	0.00002	0.00004	0.00005
	A0	-0.00008	-0.00007	-0.00007
	A0	0.00180	0.00191	0.00204
	A1	0.00191	0.00201	0.00212
	A1	-0.00002	-0.00002	-0.00001
	A1	-0.00007	-0.00007	-0.00007
	A1	0.00176	0.00187	0.00198
	B0	-0.00027	-0.00021	-0.00017
	B0	0.00025	0.00025	0.00026
	B0	-0.00024	-0.00024	-0.00024
	B0	0.00195	0.00205	0.00210
	B1	-0.00029	-0.00022	-0.00017
	B1	0.00025	0.00025	0.00025
	B1	-0.00013	-0.00013	-0.00013
	B1	0.00149	0.00155	0.00161

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X3H7H	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	-0.00004	-0.00004	-0.00004
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	0.00000	0.00001	0.00001
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	0.00035	0.00035	0.00035
	(!A1 * B0 * B1 * !YN)	-0.00014	-0.00011	-0.00007
	(!A1 * B0 * B1 * !YN)	0.00012	0.00012	0.00012
	(!A1 * B0 * B1 * !YN)	-0.00007	-0.00007	-0.00007
	(!A1 * B0 * B1 * !YN)	0.00089	0.00092	0.00096

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X3H7H	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	0.00004	0.00004	0.00004
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	-0.00035	-0.00035	-0.00034
	(!A1 * B0 * B1 * !YN)	0.00161	0.00163	0.00167
	(!A1 * B0 * B1 * !YN)	-0.00012	-0.00012	-0.00011
	(!A1 * B0 * B1 * !YN)	0.00007	0.00007	0.00008
	(!A1 * B0 * B1 * !YN)	0.00059	0.00061	0.00064

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X3H7H	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	-0.00011	-0.00010	-0.00009
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	0.00000	0.00001	0.00001
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	0.00030	0.00031	0.00031
	(!A0 * B0 * B1 * !YN)	-0.00011	-0.00010	-0.00008
	(!A0 * B0 * B1 * !YN)	0.00017	0.00018	0.00018
	(!A0 * B0 * B1 * !YN)	-0.00007	-0.00007	-0.00006
	(!A0 * B0 * B1 * !YN)	0.00106	0.00107	0.00109

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X3H7H	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	0.00011	0.00011	0.00011
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	0.00002	0.00002	0.00002
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	-0.00001	0.00003	0.00025
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	-0.00031	-0.00030	-0.00030
	(!A0 * B0 * B1 * !YN)	0.00173	0.00175	0.00177
	(!A0 * B0 * B1 * !YN)	-0.00018	-0.00018	-0.00017
	(!A0 * B0 * B1 * !YN)	0.00006	0.00007	0.00007
	(!A0 * B0 * B1 * !YN)	0.00055	0.00057	0.00060

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X3H7H	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	-0.00042	-0.00042	-0.00042
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	-0.00003	-0.00003	-0.00002
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	0.00003	0.00003	0.00004
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	0.00049	0.00049	0.00050
	(!A0 * !A1 * B1 * !YN)	-0.00032	-0.00029	-0.00024
	(!A0 * !A1 * B1 * !YN)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * B1 * !YN)	0.00001	0.00001	0.00002
	(!A0 * !A1 * B1 * !YN)	0.00058	0.00059	0.00060
	(!A0 * !A1 * !B1 * !YN)	-0.00040	-0.00040	-0.00039
	(!A0 * !A1 * !B1 * !YN)	-0.00003	-0.00002	-0.00002
	(!A0 * !A1 * !B1 * !YN)	0.00002	0.00003	0.00004
	(!A0 * !A1 * !B1 * !YN)	0.00050	0.00050	0.00050

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X3H7H	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	0.00042	0.00043	0.00044
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	0.00002	0.00003	0.00003
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	-0.00004	-0.00003	-0.00003
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	-0.00049	-0.00047	-0.00044
	(!A0 * !A1 * B1 * !YN)	0.00031	0.00032	0.00032
	(!A0 * !A1 * B1 * !YN)	0.00006	0.00006	0.00006
	(!A0 * !A1 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * !YN)	-0.00058	-0.00058	-0.00057
	(!A0 * !A1 * !B1 * !YN)	0.00039	0.00040	0.00040
	(!A0 * !A1 * !B1 * !YN)	0.00002	0.00003	0.00003
	(!A0 * !A1 * !B1 * !YN)	-0.00004	-0.00003	-0.00002
	(!A0 * !A1 * !B1 * !YN)	-0.00050	-0.00049	-0.00046

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X3H7H	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	-0.00058	-0.00058	-0.00057
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	-0.00003	-0.00002	-0.00002
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	0.00007	0.00007	0.00009
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	0.00009	0.00010	0.00010
	(!A0 * !A1 * B0 * !YN)	-0.00028	-0.00026	-0.00022
	(!A0 * !A1 * B0 * !YN)	-0.00006	-0.00006	-0.00005
	(!A0 * !A1 * B0 * !YN)	0.00001	0.00001	0.00002
	(!A0 * !A1 * B0 * !YN)	0.00057	0.00057	0.00058
	(!A0 * !A1 * !B0 * !YN)	-0.00036	-0.00036	-0.00035
	(!A0 * !A1 * !B0 * !YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !B0 * !YN)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !B0 * !YN)	0.00048	0.00049	0.00049

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X3H7H	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	0.00058	0.00058	0.00058
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	0.00002	0.00003	0.00003
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	-0.00007	-0.00007	-0.00007
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	-0.00010	-0.00010	-0.00009
	(!A0 * !A1 * B0 * !YN)	0.00028	0.00028	0.00028
	(!A0 * !A1 * B0 * !YN)	0.00005	0.00006	0.00006
	(!A0 * !A1 * B0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !YN)	-0.00057	-0.00056	-0.00056
	(!A0 * !A1 * !B0 * !YN)	0.00035	0.00036	0.00036
	(!A0 * !A1 * !B0 * !YN)	0.00002	0.00002	0.00003
	(!A0 * !A1 * !B0 * !YN)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !B0 * !YN)	-0.00049	-0.00047	-0.00045

AOI2BB2X4H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

AOI

Y=(A0N & A1N)+ (B0 & B1)

Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	YN
0	0	x	x	0
x	1	0	x	1
x	1	1	0	1
x	1	1	1	0
1	x	0	x	1
1	x	1	0	1
1	x	1	1	0

Footprint

Cell Name	Area
AOI2BB2X4H7H	5.88000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	B1	YN
AOI2BB2X4H7H	0.00127	0.00113	0.00326	0.00326	0.06115

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI2BB2X4H7H	0.00000	0.06684	0.07591

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2BB2X4H7H	A0->YN (RR)	0.07335	0.24967	0.67815
	A1->YN (RR)	0.07049	0.24511	0.66824
	B0->YN (FR)	0.04995	0.23029	0.75257
	B1->YN (FR)	0.04344	0.22201	0.74505

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2BB2X4H7H	A0->YN (FF)	0.11635	0.23558	0.51865
	A1->YN (FF)	0.11045	0.22771	0.50675
	B0->YN (RF)	0.03137	0.16406	0.57022
	B1->YN (RF)	0.02883	0.15926	0.58111

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2BB2X4H7H	A0	0.00257	0.00271	0.00285
	A0	0.00002	0.00003	0.00003
	A0	0.00026	0.00026	0.00026
	A0	0.00263	0.00277	0.00291
	A1	0.00259	0.00272	0.00286
	A1	-0.00005	-0.00004	-0.00003
	A1	0.00026	0.00026	0.00030
	A1	0.00240	0.00253	0.00267
	B0	0.00398	0.00409	0.00418
	B0	-0.00036	-0.00034	-0.00033
	B0	0.00033	0.00033	0.00033
	B0	0.00029	0.00039	0.00047
	B1	0.00350	0.00362	0.00374
	B1	-0.00034	-0.00034	-0.00033
	B1	0.00017	0.00018	0.00018
	B1	0.00047	0.00060	0.00072

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2BB2X4H7H	A0	0.00263	0.00279	0.00296
	A0	-0.00003	-0.00002	-0.00002
	A0	-0.00011	-0.00011	-0.00010
	A0	0.00262	0.00278	0.00295
	A1	0.00238	0.00253	0.00269
	A1	0.00003	0.00005	0.00006
	A1	-0.00011	-0.00011	-0.00010
	A1	0.00266	0.00281	0.00298
	B0	-0.00041	-0.00031	-0.00024
	B0	0.00033	0.00034	0.00036
	B0	-0.00033	-0.00033	-0.00026
	B0	0.00321	0.00331	0.00339
	B1	-0.00045	-0.00034	-0.00025
	B1	0.00033	0.00034	0.00034
	B1	-0.00018	-0.00018	-0.00017
	B1	0.00235	0.00249	0.00260

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X4H7H	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	-0.00013	-0.00012	-0.00010
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	0.00001	0.00001	0.00002
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	0.00042	0.00043	0.00043
	(!A1 * B0 * B1 * !YN)	-0.00017	-0.00014	-0.00010
	(!A1 * B0 * B1 * !YN)	0.00022	0.00022	0.00022
	(!A1 * B0 * B1 * !YN)	-0.00009	-0.00009	-0.00008
	(!A1 * B0 * B1 * !YN)	0.00138	0.00142	0.00146

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X4H7H	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	0.00013	0.00013	0.00013
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	0.00003	0.00003	0.00003
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	-0.00001	-0.00000	0.00001
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	-0.00043	-0.00043	-0.00042
	(!A1 * B0 * B1 * !YN)	0.00237	0.00240	0.00245
	(!A1 * B0 * B1 * !YN)	-0.00022	-0.00022	-0.00022
	(!A1 * B0 * B1 * !YN)	0.00008	0.00009	0.00009
	(!A1 * B0 * B1 * !YN)	0.00081	0.00084	0.00090

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X4H7H	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	-0.00005	-0.00005	-0.00005
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	0.00000	0.00001	0.00001
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	0.00041	0.00042	0.00042
	(!A0 * B0 * B1 * !YN)	-0.00015	-0.00012	-0.00009
	(!A0 * B0 * B1 * !YN)	0.00015	0.00015	0.00015
	(!A0 * B0 * B1 * !YN)	-0.00009	-0.00009	-0.00009
	(!A0 * B0 * B1 * !YN)	0.00115	0.00118	0.00122

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X4H7H	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	-0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	0.00005	0.00005	0.00005
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	-0.00001	-0.00001	0.00000
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	-0.00042	-0.00042	-0.00041
	(!A0 * B0 * B1 * !YN)	0.00214	0.00217	0.00221
	(!A0 * B0 * B1 * !YN)	-0.00015	-0.00015	-0.00014
	(!A0 * B0 * B1 * !YN)	0.00009	0.00009	0.00009
	(!A0 * B0 * B1 * !YN)	0.00085	0.00087	0.00091

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X4H7H	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	-0.00068	-0.00068	-0.00067
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	-0.00004	-0.00004	-0.00004
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	0.00004	0.00005	0.00008
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	0.00083	0.00084	0.00085
	(!A0 * !A1 * B1 * !YN)	-0.00042	-0.00037	-0.00030
	(!A0 * !A1 * B1 * !YN)	-0.00009	-0.00008	-0.00008
	(!A0 * !A1 * B1 * !YN)	0.00001	0.00001	0.00002
	(!A0 * !A1 * B1 * !YN)	0.00110	0.00111	0.00112
	(!A0 * !A1 * !B1 * !YN)	-0.00055	-0.00054	-0.00053
	(!A0 * !A1 * !B1 * !YN)	-0.00004	-0.00003	-0.00001
	(!A0 * !A1 * !B1 * !YN)	0.00005	0.00005	0.00006
	(!A0 * !A1 * !B1 * !YN)	0.00094	0.00096	0.00097

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X4H7H	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	0.00068	0.00069	0.00073
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	0.00004	0.00004	0.00005
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	-0.00007	-0.00005	-0.00004
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	-0.00084	-0.00081	-0.00077
	(!A0 * !A1 * B1 * !YN)	0.00041	0.00042	0.00042
	(!A0 * !A1 * B1 * !YN)	0.00008	0.00009	0.00009
	(!A0 * !A1 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * !YN)	-0.00110	-0.00110	-0.00109
	(!A0 * !A1 * !B1 * !YN)	0.00054	0.00055	0.00055
	(!A0 * !A1 * !B1 * !YN)	0.00001	0.00004	0.00004
	(!A0 * !A1 * !B1 * !YN)	-0.00006	-0.00005	-0.00005
	(!A0 * !A1 * !B1 * !YN)	-0.00097	-0.00094	-0.00089

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X4H7H	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	-0.00095	-0.00094	-0.00093
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	-0.00004	-0.00004	-0.00004
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	0.00008	0.00010	0.00010
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	0.00018	0.00018	0.00020
	(!A0 * !A1 * B0 * !YN)	-0.00047	-0.00041	-0.00033
	(!A0 * !A1 * B0 * !YN)	-0.00010	-0.00010	-0.00009
	(!A0 * !A1 * B0 * !YN)	0.00001	0.00002	0.00002
	(!A0 * !A1 * B0 * !YN)	0.00089	0.00090	0.00093
	(!A0 * !A1 * !B0 * !YN)	-0.00063	-0.00063	-0.00062
	(!A0 * !A1 * !B0 * !YN)	-0.00004	-0.00004	-0.00003
	(!A0 * !A1 * !B0 * !YN)	0.00005	0.00005	0.00006
	(!A0 * !A1 * !B0 * !YN)	0.00074	0.00075	0.00075

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X4H7H	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	0.00094	0.00094	0.00095
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	0.00004	0.00004	0.00004
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	-0.00010	-0.00010	-0.00008
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	-0.00019	-0.00018	-0.00018
	(!A0 * !A1 * B0 * !YN)	0.00046	0.00047	0.00047
	(!A0 * !A1 * B0 * !YN)	0.00009	0.00010	0.00010
	(!A0 * !A1 * B0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !YN)	-0.00089	-0.00089	-0.00088
	(!A0 * !A1 * !B0 * !YN)	0.00062	0.00063	0.00063
	(!A0 * !A1 * !B0 * !YN)	0.00003	0.00004	0.00006
	(!A0 * !A1 * !B0 * !YN)	-0.00006	-0.00005	-0.00005
	(!A0 * !A1 * !B0 * !YN)	-0.00075	-0.00072	-0.00068

AOI2BB2X6H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

AOI

Y=(A0N & A1N)+ (B0 & B1)

Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	YN
0	0	x	x	0
x	1	0	x	1
x	1	1	0	1
x	1	1	1	0
1	x	0	x	1
1	x	1	0	1
1	x	1	1	0

Footprint

Cell Name	Area
AOI2BB2X6H7H	6.16000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	B1	YN
AOI2BB2X6H7H	0.00148	0.00160	0.00388	0.00389	0.08694

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI2BB2X6H7H	0.00000	0.07521	0.11151

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2BB2X6H7H	A0->YN (RR)	0.07023	0.24529	0.66927
	A1->YN (RR)	0.06891	0.24258	0.66218
	B0->YN (FR)	0.04471	0.22618	0.75322
	B1->YN (FR)	0.03877	0.21854	0.74676

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2BB2X6H7H	A0->YN (FF)	0.12607	0.24683	0.53175
	A1->YN (FF)	0.12337	0.24193	0.52493
	B0->YN (RF)	0.02947	0.16840	0.59356
	B1->YN (RF)	0.02661	0.16135	0.59509

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2BB2X6H7H	A0	0.00341	0.00359	0.00379
	A0	0.00000	0.00000	0.00001
	A0	0.00039	0.00040	0.00040
	A0	0.00346	0.00364	0.00384
	A1	0.00340	0.00360	0.00381
	A1	-0.00009	-0.00008	-0.00007
	A1	0.00039	0.00040	0.00040
	A1	0.00324	0.00344	0.00364
	B0	0.00518	0.00529	0.00539
	B0	-0.00051	-0.00050	-0.00050
	B0	0.00048	0.00049	0.00049
	B0	0.00053	0.00064	0.00074
	B1	0.00452	0.00465	0.00479
	B1	-0.00050	-0.00050	-0.00050
	B1	0.00026	0.00027	0.00027
	B1	0.00070	0.00085	0.00099

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2BB2X6H7H	A0	0.00358	0.00377	0.00401
	A0	-0.00000	-0.00000	0.00000
	A0	-0.00018	-0.00017	-0.00017
	A0	0.00361	0.00380	0.00404
	A1	0.00333	0.00353	0.00379
	A1	0.00007	0.00008	0.00011
	A1	-0.00018	-0.00017	-0.00016
	A1	0.00362	0.00381	0.00407
	B0	-0.00056	-0.00043	-0.00034
	B0	0.00050	0.00050	0.00051
	B0	-0.00049	-0.00049	-0.00048
	B0	0.00389	0.00411	0.00423
	B1	-0.00060	-0.00046	-0.00035
	B1	0.00050	0.00050	0.00050
	B1	-0.00027	-0.00027	-0.00026
	B1	0.00291	0.00309	0.00322

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X6H7H	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	-0.00016	-0.00015	-0.00012
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	0.00000	0.00001	0.00001
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	0.00053	0.00053	0.00053
	(!A1 * B0 * B1 * !YN)	-0.00019	-0.00015	-0.00011
	(!A1 * B0 * B1 * !YN)	0.00028	0.00029	0.00029
	(!A1 * B0 * B1 * !YN)	-0.00012	-0.00011	-0.00011
	(!A1 * B0 * B1 * !YN)	0.00177	0.00181	0.00186

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X6H7H	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	0.00016	0.00016	0.00016
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	0.00003	0.00003	0.00003
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	-0.00053	-0.00053	-0.00052
	(!A1 * B0 * B1 * !YN)	0.00319	0.00323	0.00329
	(!A1 * B0 * B1 * !YN)	-0.00029	-0.00029	-0.00028
	(!A1 * B0 * B1 * !YN)	0.00011	0.00012	0.00014
	(!A1 * B0 * B1 * !YN)	0.00123	0.00126	0.00131

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X6H7H	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	-0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	-0.00005	-0.00005	-0.00005
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	0.00001	0.00001	0.00002
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	0.00060	0.00061	0.00062
	(!A0 * B0 * B1 * !YN)	-0.00020	-0.00015	-0.00010
	(!A0 * B0 * B1 * !YN)	0.00020	0.00020	0.00021
	(!A0 * B0 * B1 * !YN)	-0.00011	-0.00011	-0.00009
	(!A0 * B0 * B1 * !YN)	0.00155	0.00160	0.00166

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X6H7H	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	-0.00000	-0.00000	0.00000
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	0.00006	0.00006	0.00006
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	-0.00002	-0.00001	-0.00001
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	-0.00061	-0.00061	-0.00060
	(!A0 * B0 * B1 * !YN)	0.00298	0.00302	0.00309
	(!A0 * B0 * B1 * !YN)	-0.00020	-0.00020	-0.00019
	(!A0 * B0 * B1 * !YN)	0.00009	0.00011	0.00012
	(!A0 * B0 * B1 * !YN)	0.00124	0.00128	0.00136

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X6H7H	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	-0.00087	-0.00086	-0.00086
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	-0.00005	-0.00005	-0.00005
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	0.00003	0.00006	0.00008
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	0.00095	0.00097	0.00099
	(!A0 * !A1 * B1 * !YN)	-0.00057	-0.00051	-0.00042
	(!A0 * !A1 * B1 * !YN)	-0.00012	-0.00011	-0.00011
	(!A0 * !A1 * B1 * !YN)	0.00000	0.00002	0.00004
	(!A0 * !A1 * B1 * !YN)	0.00125	0.00126	0.00126
	(!A0 * !A1 * !B1 * !YN)	-0.00073	-0.00072	-0.00072
	(!A0 * !A1 * !B1 * !YN)	-0.00005	-0.00005	-0.00004
	(!A0 * !A1 * !B1 * !YN)	0.00007	0.00008	0.00008
	(!A0 * !A1 * !B1 * !YN)	0.00109	0.00109	0.00110

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X6H7H	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	0.00087	0.00088	0.00091
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	0.00005	0.00005	0.00005
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	-0.00008	-0.00006	-0.00003
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	-0.00095	-0.00091	-0.00087
	(!A0 * !A1 * B1 * !YN)	0.00056	0.00056	0.00057
	(!A0 * !A1 * B1 * !YN)	0.00011	0.00011	0.00012
	(!A0 * !A1 * B1 * !YN)	-0.00002	-0.00002	-0.00000
	(!A0 * !A1 * B1 * !YN)	-0.00126	-0.00125	-0.00124
	(!A0 * !A1 * !B1 * !YN)	0.00072	0.00072	0.00073
	(!A0 * !A1 * !B1 * !YN)	0.00005	0.00005	0.00006
	(!A0 * !A1 * !B1 * !YN)	-0.00008	-0.00008	-0.00007
	(!A0 * !A1 * !B1 * !YN)	-0.00109	-0.00106	-0.00100

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X6H7H	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	-0.00118	-0.00117	-0.00116
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	-0.00005	-0.00005	-0.00005
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	0.00013	0.00014	0.00017
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	0.00017	0.00020	0.00021
	(!A0 * !A1 * B0 * !YN)	-0.00063	-0.00056	-0.00046
	(!A0 * !A1 * B0 * !YN)	-0.00013	-0.00013	-0.00012
	(!A0 * !A1 * B0 * !YN)	0.00002	0.00002	0.00003
	(!A0 * !A1 * B0 * !YN)	0.00103	0.00104	0.00107
	(!A0 * !A1 * !B0 * !YN)	-0.00083	-0.00082	-0.00082
	(!A0 * !A1 * !B0 * !YN)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !B0 * !YN)	0.00007	0.00007	0.00008
	(!A0 * !A1 * !B0 * !YN)	0.00085	0.00086	0.00087

Passive power(pJ) for B1 falling (conditional):

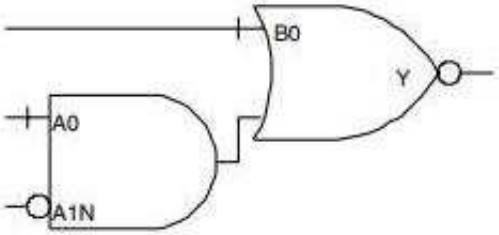
Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X6H7H	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	0.00117	0.00117	0.00118
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	0.00005	0.00005	0.00006
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	-0.00013	-0.00013	-0.00013
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	-0.00020	-0.00020	-0.00017
	(!A0 * !A1 * B0 * !YN)	0.00062	0.00062	0.00063
	(!A0 * !A1 * B0 * !YN)	0.00012	0.00013	0.00013
	(!A0 * !A1 * B0 * !YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !YN)	-0.00103	-0.00102	-0.00102
	(!A0 * !A1 * !B0 * !YN)	0.00082	0.00083	0.00083
	(!A0 * !A1 * !B0 * !YN)	0.00005	0.00005	0.00006
	(!A0 * !A1 * !B0 * !YN)	-0.00008	-0.00007	-0.00007
	(!A0 * !A1 * !B0 * !YN)	-0.00086	-0.00082	-0.00077

AOI2XB1X0P5H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI2XB1 cell provides the logical inverted OR of one AND group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1N	B0	Y
0	x	0	1
0	x	1	0
1	0	x	0
1	1	0	1
1	1	1	0

Footprint

Cell Name	Area
AOI2XB1X0P5H7H	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1N	B0	Y
AOI2XB1X0P5H7H	0.00084	0.00099	0.00097	0.01530

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI2XB1X0P5H7H	0.00000	0.01433	0.01676

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2XB1X0P5H7H	A0->Y (FR)	0.06607	0.24631	0.75704
	A1N->Y (RR)	0.08466	0.24403	0.63246
	B0->Y (FR)	0.05749	0.23104	0.73833

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2XB1X0P5H7H	A0->Y (RF)	0.04460	0.17754	0.57524
	A1N->Y (FF)	0.07526	0.20070	0.49677
	B0->Y (RF)	0.02046	0.11482	0.44627

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2XB1X0P5H7H	A0	0.00100	0.00102	0.00104
	A0	-0.00008	-0.00008	-0.00008
	A0	0.00008	0.00008	0.00008
	A0	-0.00001	0.00001	0.00003
	A1N	0.00094	0.00099	0.00105
	A1N	-0.00006	-0.00006	-0.00006
	A1N	0.00002	0.00003	0.00003
	A1N	0.00123	0.00128	0.00133
	B0	0.00072	0.00075	0.00080
	B0	-0.00002	-0.00002	-0.00001
	B0	0.00008	0.00008	0.00008
	B0	-0.00002	0.00002	0.00006

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2XB1X0P5H7H	A0	0.00007	0.00010	0.00011
	A0	0.00008	0.00008	0.00008
	A0	-0.00008	-0.00008	-0.00008
	A0	0.00105	0.00108	0.00110
	A1N	0.00105	0.00109	0.00114
	A1N	0.00006	0.00006	0.00006
	A1N	-0.00003	-0.00003	-0.00002
	A1N	0.00072	0.00076	0.00081
	B0	0.00004	0.00008	0.00011
	B0	0.00001	0.00002	0.00009
	B0	-0.00005	-0.00005	-0.00005
	B0	0.00087	0.00090	0.00093

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X0P5H7H	(A1N * B0 * !Y)	-0.00014	-0.00014	-0.00014
	(A1N * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1N * B0 * !Y)	0.00001	0.00001	0.00001
	(A1N * B0 * !Y)	0.00027	0.00027	0.00027
	(A1N * !B0 * Y)	-0.00017	-0.00017	-0.00017
	(A1N * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1N * !B0 * Y)	0.00001	0.00001	0.00001
	(A1N * !B0 * Y)	0.00025	0.00025	0.00025
	(!A1N * B0 * !Y)	-0.00015	-0.00013	-0.00012
	(!A1N * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1N * B0 * !Y)	0.00000	0.00000	0.00001
	(!A1N * B0 * !Y)	0.00026	0.00027	0.00027

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X0P5H7H	(A1N * B0 * !Y)	0.00014	0.00014	0.00014
	(A1N * B0 * !Y)	0.00001	0.00001	0.00001
	(A1N * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1N * B0 * !Y)	-0.00027	-0.00027	-0.00026
	(A1N * !B0 * Y)	0.00017	0.00017	0.00018
	(A1N * !B0 * Y)	0.00001	0.00001	0.00001
	(A1N * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1N * !B0 * Y)	-0.00025	-0.00024	-0.00023
	(!A1N * B0 * !Y)	0.00014	0.00015	0.00015
	(!A1N * B0 * !Y)	0.00002	0.00002	0.00002
	(!A1N * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1N * B0 * !Y)	-0.00026	-0.00026	-0.00026

Passive power(pJ) for A1N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X0P5H7H	(B0 * !Y)	-0.00003	-0.00001	0.00003
	(B0 * !Y)	0.00004	0.00004	0.00004
	(B0 * !Y)	-0.00002	-0.00002	-0.00002
	(B0 * !Y)	0.00079	0.00082	0.00084
	(!A0 * !B0 * Y)	0.00011	0.00013	0.00017
	(!A0 * !B0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !B0 * Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !B0 * Y)	0.00095	0.00097	0.00100

Passive power(pJ) for A1N falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X0P5H7H	(B0 * !Y)	0.00091	0.00094	0.00097
	(B0 * !Y)	-0.00004	-0.00004	-0.00004
	(B0 * !Y)	0.00002	0.00003	0.00003
	(B0 * !Y)	0.00008	0.00011	0.00014
	(!A0 * !B0 * Y)	0.00072	0.00075	0.00078
	(!A0 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !B0 * Y)	0.00005	0.00005	0.00005
	(!A0 * !B0 * Y)	-0.00012	-0.00009	-0.00006

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X0P5H7H	(A0 * !A1N * !Y)	-0.00002	-0.00001	-0.00001
	(A0 * !A1N * !Y)	-0.00003	-0.00003	-0.00002
	(A0 * !A1N * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1N * !Y)	0.00037	0.00037	0.00037

Passive power(pJ) for B0 falling (conditional):

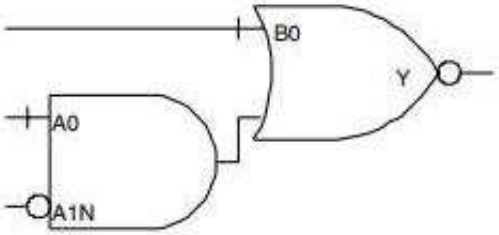
Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X0P5H7H	(A0 * !A1N * !Y)	0.00001	0.00002	0.00002
	(A0 * !A1N * !Y)	0.00002	0.00003	0.00003
	(A0 * !A1N * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1N * !Y)	-0.00037	-0.00037	-0.00036

AOI2XB1X0P7H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI2XB1 cell provides the logical inverted OR of one AND group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1N	B0	Y
0	x	0	1
0	x	1	0
1	0	x	0
1	1	0	1
1	1	1	0

Footprint

Cell Name	Area
AOI2XB1X0P7H7H	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1N	B0	Y
AOI2XB1X0P7H7H	0.00088	0.00098	0.00099	0.01748

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI2XB1X0P7H7H	0.00000	0.01556	0.01954

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2XB1X0P7H7H	A0->Y (FR)	0.06082	0.24194	0.75724
	A1N->Y (RR)	0.08010	0.24130	0.63426
	B0->Y (FR)	0.05205	0.22666	0.73978

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2XB1X0P7H7H	A0->Y (RF)	0.04200	0.17753	0.58425
	A1N->Y (FF)	0.07315	0.20083	0.50276
	B0->Y (RF)	0.01882	0.11364	0.45125

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2XB1X0P7H7H	A0	0.00105	0.00108	0.00110
	A0	-0.00010	-0.00010	-0.00010
	A0	0.00010	0.00010	0.00010
	A0	-0.00002	0.00000	0.00002
	A1N	0.00100	0.00105	0.00111
	A1N	-0.00008	-0.00008	-0.00007
	A1N	0.00003	0.00003	0.00003
	A1N	0.00125	0.00130	0.00135
	B0	0.00074	0.00078	0.00082
	B0	-0.00002	-0.00002	-0.00001
	B0	0.00010	0.00010	0.00010
	B0	-0.00003	0.00001	0.00005

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2XB1X0P7H7H	A0	0.00007	0.00010	0.00012
	A0	0.00010	0.00010	0.00010
	A0	-0.00010	-0.00010	-0.00010
	A0	0.00110	0.00115	0.00117
	A1N	0.00107	0.00111	0.00116
	A1N	0.00007	0.00008	0.00008
	A1N	-0.00003	-0.00003	-0.00003
	A1N	0.00077	0.00081	0.00086
	B0	0.00004	0.00008	0.00011
	B0	0.00001	0.00002	0.00003
	B0	-0.00005	-0.00005	-0.00005
	B0	0.00090	0.00094	0.00097

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X0P7H7H	(A1N * B0 * !Y)	-0.00015	-0.00015	-0.00015
	(A1N * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1N * B0 * !Y)	0.00001	0.00002	0.00002
	(A1N * B0 * !Y)	0.00028	0.00028	0.00028
	(A1N * !B0 * Y)	-0.00018	-0.00018	-0.00018
	(A1N * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1N * !B0 * Y)	0.00001	0.00002	0.00002
	(A1N * !B0 * Y)	0.00025	0.00025	0.00026
	(!A1N * B0 * !Y)	-0.00016	-0.00014	-0.00012
	(!A1N * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1N * B0 * !Y)	0.00000	0.00001	0.00001
	(!A1N * B0 * !Y)	0.00027	0.00028	0.00028

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X0P7H7H	(A1N * B0 * !Y)	0.00015	0.00015	0.00015
	(A1N * B0 * !Y)	0.00001	0.00001	0.00001
	(A1N * B0 * !Y)	-0.00002	-0.00002	-0.00001
	(A1N * B0 * !Y)	-0.00028	-0.00028	-0.00027
	(A1N * !B0 * Y)	0.00018	0.00018	0.00019
	(A1N * !B0 * Y)	0.00001	0.00001	0.00001
	(A1N * !B0 * Y)	-0.00002	-0.00001	-0.00001
	(A1N * !B0 * Y)	-0.00025	-0.00024	-0.00023
	(!A1N * B0 * !Y)	0.00015	0.00015	0.00016
	(!A1N * B0 * !Y)	0.00002	0.00002	0.00002
	(!A1N * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1N * B0 * !Y)	-0.00028	-0.00027	-0.00027

Passive power(pJ) for A1N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X0P7H7H	(B0 * !Y)	-0.00002	0.00000	0.00004
	(B0 * !Y)	0.00004	0.00005	0.00005
	(B0 * !Y)	-0.00003	-0.00003	-0.00002
	(B0 * !Y)	0.00081	0.00083	0.00086
	(!A0 * !B0 * Y)	0.00013	0.00015	0.00019
	(!A0 * !B0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !B0 * Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !B0 * Y)	0.00097	0.00099	0.00102

Passive power(pJ) for A1N falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X0P7H7H	(B0 * !Y)	0.00092	0.00095	0.00098
	(B0 * !Y)	-0.00005	-0.00005	-0.00004
	(B0 * !Y)	0.00003	0.00003	0.00003
	(B0 * !Y)	0.00009	0.00011	0.00015
	(!A0 * !B0 * Y)	0.00072	0.00075	0.00077
	(!A0 * !B0 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !B0 * Y)	0.00005	0.00005	0.00005
	(!A0 * !B0 * Y)	-0.00012	-0.00009	-0.00006

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X0P7H7H	(A0 * !A1N * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * !A1N * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * !A1N * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1N * !Y)	0.00037	0.00037	0.00037

Passive power(pJ) for B0 falling (conditional):

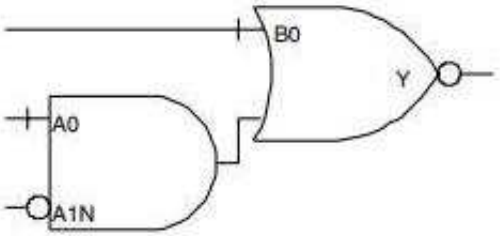
Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X0P7H7H	(A0 * !A1N * !Y)	0.00002	0.00002	0.00002
	(A0 * !A1N * !Y)	0.00003	0.00003	0.00004
	(A0 * !A1N * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1N * !Y)	-0.00037	-0.00037	-0.00037

AOI2XB1X1H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI2XB1 cell provides the logical inverted OR of one AND group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1N	B0	Y
0	x	0	1
0	x	1	0
1	0	x	0
1	1	0	1
1	1	1	0

Footprint

Cell Name	Area
AOI2XB1X1H7H	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1N	B0	Y
AOI2XB1X1H7H	0.00094	0.00098	0.00106	0.02092

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI2XB1X1H7H	0.00000	0.01837	0.02856

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2XB1X1H7H	A0->Y (FR)	0.05509	0.23709	0.75682
	A1N->Y (RR)	0.07576	0.23912	0.63772
	B0->Y (FR)	0.04652	0.22215	0.73972

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2XB1X1H7H	A0->Y (RF)	0.03993	0.17982	0.60108
	A1N->Y (FF)	0.07225	0.20434	0.51772
	B0->Y (RF)	0.01772	0.11486	0.46117

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2XB1X1H7H	A0	0.00116	0.00118	0.00121
	A0	-0.00012	-0.00012	-0.00010
	A0	0.00011	0.00011	0.00011
	A0	-0.00003	-0.00001	0.00001
	A1N	0.00111	0.00117	0.00122
	A1N	-0.00010	-0.00010	-0.00010
	A1N	0.00004	0.00004	0.00004
	A1N	0.00130	0.00135	0.00141
	B0	0.00078	0.00084	0.00089
	B0	-0.00003	-0.00003	-0.00002
	B0	0.00011	0.00011	0.00011
	B0	-0.00003	0.00001	0.00006

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2XB1X1H7H	A0	0.00008	0.00011	0.00013
	A0	0.00010	0.00012	0.00012
	A0	-0.00011	-0.00011	-0.00011
	A0	0.00122	0.00126	0.00129
	A1N	0.00110	0.00115	0.00120
	A1N	0.00010	0.00010	0.00010
	A1N	-0.00004	-0.00004	-0.00004
	A1N	0.00086	0.00091	0.00096
	B0	0.00003	0.00008	0.00011
	B0	0.00002	0.00003	0.00004
	B0	-0.00006	-0.00006	-0.00006
	B0	0.00098	0.00102	0.00105

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X1H7H	(A1N * B0 * !Y)	-0.00018	-0.00018	-0.00017
	(A1N * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1N * B0 * !Y)	0.00002	0.00002	0.00002
	(A1N * B0 * !Y)	0.00029	0.00029	0.00029
	(A1N * !B0 * Y)	-0.00021	-0.00020	-0.00020
	(A1N * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1N * !B0 * Y)	0.00002	0.00002	0.00002
	(A1N * !B0 * Y)	0.00026	0.00027	0.00027
	(!A1N * B0 * !Y)	-0.00017	-0.00016	-0.00014
	(!A1N * B0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1N * B0 * !Y)	0.00000	0.00001	0.00001
	(!A1N * B0 * !Y)	0.00029	0.00029	0.00030

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X1H7H	(A1N * B0 * !Y)	0.00017	0.00018	0.00018
	(A1N * B0 * !Y)	0.00001	0.00001	0.00001
	(A1N * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1N * B0 * !Y)	-0.00029	-0.00029	-0.00028
	(A1N * !B0 * Y)	0.00021	0.00021	0.00021
	(A1N * !B0 * Y)	0.00001	0.00001	0.00001
	(A1N * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(A1N * !B0 * Y)	-0.00026	-0.00026	-0.00024
	(!A1N * B0 * !Y)	0.00017	0.00017	0.00017
	(!A1N * B0 * !Y)	0.00003	0.00003	0.00003
	(!A1N * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1N * B0 * !Y)	-0.00029	-0.00029	-0.00029

Passive power(pJ) for A1N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X1H7H	(B0 * !Y)	-0.00000	0.00002	0.00006
	(B0 * !Y)	0.00005	0.00005	0.00006
	(B0 * !Y)	-0.00003	-0.00003	-0.00003
	(B0 * !Y)	0.00083	0.00086	0.00089
	(!A0 * !B0 * Y)	0.00016	0.00018	0.00021
	(!A0 * !B0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !B0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !B0 * Y)	0.00100	0.00103	0.00106

Passive power(pJ) for A1N falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X1H7H	(B0 * !Y)	0.00094	0.00097	0.00101
	(B0 * !Y)	-0.00006	-0.00005	-0.00005
	(B0 * !Y)	0.00003	0.00003	0.00003
	(B0 * !Y)	0.00010	0.00013	0.00016
	(!A0 * !B0 * Y)	0.00073	0.00075	0.00079
	(!A0 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !B0 * Y)	0.00005	0.00005	0.00005
	(!A0 * !B0 * Y)	-0.00012	-0.00010	-0.00007

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X1H7H	(A0 * !A1N * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1N * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * !A1N * !Y)	0.00000	0.00001	0.00001
	(A0 * !A1N * !Y)	0.00039	0.00039	0.00040

Passive power(pJ) for B0 falling (conditional):

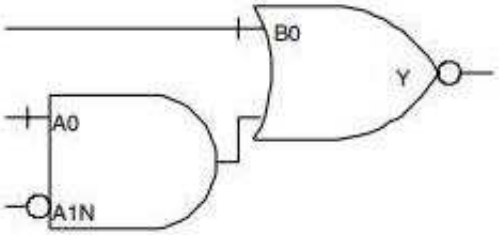
Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X1H7H	(A0 * !A1N * !Y)	0.00002	0.00002	0.00002
	(A0 * !A1N * !Y)	0.00004	0.00004	0.00004
	(A0 * !A1N * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1N * !Y)	-0.00039	-0.00039	-0.00039

AOI2XB1X1P4H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI2XB1 cell provides the logical inverted OR of one AND group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1N	B0	Y
0	x	0	1
0	x	1	0
1	0	x	0
1	1	0	1
1	1	1	0

Footprint

Cell Name	Area
AOI2XB1X1P4H7H	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1N	B0	Y
AOI2XB1X1P4H7H	0.00098	0.00098	0.00113	0.02372

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI2XB1X1P4H7H	0.00000	0.02205	0.03966

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2XB1X1P4H7H	A0->Y (FR)	0.05175	0.23386	0.75563
	A1N->Y (RR)	0.07359	0.23800	0.63899
	B0->Y (FR)	0.04434	0.22039	0.73953

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2XB1X1P4H7H	A0->Y (RF)	0.03827	0.17891	0.60308
	A1N->Y (FF)	0.07168	0.20508	0.52192
	B0->Y (RF)	0.01715	0.11479	0.46463

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2XB1X1P4H7H	A0	0.00126	0.00128	0.00131
	A0	-0.00014	-0.00014	-0.00014
	A0	0.00013	0.00013	0.00013
	A0	-0.00004	-0.00001	0.00001
	A1N	0.00121	0.00127	0.00133
	A1N	-0.00012	-0.00012	-0.00011
	A1N	0.00005	0.00005	0.00005
	A1N	0.00132	0.00138	0.00144
	B0	0.00088	0.00093	0.00099
	B0	-0.00004	-0.00003	-0.00003
	B0	0.00013	0.00013	0.00013
	B0	-0.00001	0.00003	0.00008

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2XB1X1P4H7H	A0	0.00008	0.00011	0.00013
	A0	0.00014	0.00014	0.00014
	A0	-0.00013	-0.00013	-0.00013
	A0	0.00130	0.00137	0.00140
	A1N	0.00113	0.00118	0.00124
	A1N	0.00011	0.00012	0.00012
	A1N	-0.00005	-0.00005	-0.00005
	A1N	0.00096	0.00101	0.00107
	B0	0.00002	0.00007	0.00011
	B0	0.00003	0.00004	0.00004
	B0	-0.00007	-0.00007	-0.00006
	B0	0.00105	0.00110	0.00114

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X1P4H7H	(A1N * B0 * !Y)	-0.00020	-0.00020	-0.00020
	(A1N * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1N * B0 * !Y)	0.00002	0.00002	0.00002
	(A1N * B0 * !Y)	0.00029	0.00029	0.00029
	(A1N * !B0 * Y)	-0.00023	-0.00023	-0.00022
	(A1N * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1N * !B0 * Y)	0.00002	0.00002	0.00002
	(A1N * !B0 * Y)	0.00026	0.00027	0.00027
	(!A1N * B0 * !Y)	-0.00019	-0.00018	-0.00015
	(!A1N * B0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1N * B0 * !Y)	0.00000	0.00001	0.00001
	(!A1N * B0 * !Y)	0.00029	0.00029	0.00029

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X1P4H7H	(A1N * B0 * !Y)	0.00020	0.00020	0.00020
	(A1N * B0 * !Y)	0.00001	0.00001	0.00001
	(A1N * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1N * B0 * !Y)	-0.00029	-0.00029	-0.00027
	(A1N * !B0 * Y)	0.00023	0.00023	0.00023
	(A1N * !B0 * Y)	0.00001	0.00001	0.00001
	(A1N * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(A1N * !B0 * Y)	-0.00027	-0.00026	-0.00024
	(!A1N * B0 * !Y)	0.00019	0.00019	0.00019
	(!A1N * B0 * !Y)	0.00003	0.00003	0.00003
	(!A1N * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1N * B0 * !Y)	-0.00029	-0.00029	-0.00028

Passive power(pJ) for A1N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X1P4H7H	(B0 * !Y)	0.00001	0.00004	0.00008
	(B0 * !Y)	0.00006	0.00006	0.00006
	(B0 * !Y)	-0.00003	-0.00003	-0.00003
	(B0 * !Y)	0.00086	0.00088	0.00092
	(!A0 * !B0 * Y)	0.00019	0.00021	0.00024
	(!A0 * !B0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !B0 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !B0 * Y)	0.00104	0.00106	0.00109

Passive power(pJ) for A1N falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X1P4H7H	(B0 * !Y)	0.00096	0.00099	0.00103
	(B0 * !Y)	-0.00006	-0.00006	-0.00006
	(B0 * !Y)	0.00003	0.00003	0.00003
	(B0 * !Y)	0.00012	0.00014	0.00018
	(!A0 * !B0 * Y)	0.00074	0.00076	0.00080
	(!A0 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !B0 * Y)	0.00006	0.00006	0.00006
	(!A0 * !B0 * Y)	-0.00012	-0.00009	-0.00006

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X1P4H7H	(A0 * !A1N * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1N * !Y)	-0.00005	-0.00004	-0.00004
	(A0 * !A1N * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1N * !Y)	0.00041	0.00041	0.00041

Passive power(pJ) for B0 falling (conditional):

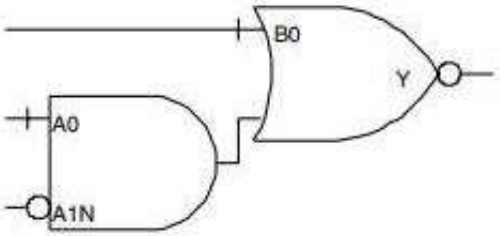
Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X1P4H7H	(A0 * !A1N * !Y)	0.00002	0.00002	0.00002
	(A0 * !A1N * !Y)	0.00004	0.00005	0.00005
	(A0 * !A1N * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1N * !Y)	-0.00041	-0.00041	-0.00041

AOI2XB1X2H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI2XB1 cell provides the logical inverted OR of one AND group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1N	B0	Y
0	x	0	1
0	x	1	0
1	0	x	0
1	1	0	1
1	1	1	0

Footprint

Cell Name	Area
AOI2XB1X2H7H	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1N	B0	Y
AOI2XB1X2H7H	0.00110	0.00100	0.00120	0.02742

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI2XB1X2H7H	0.00000	0.02879	0.05909

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2XB1X2H7H	A0->Y (FR)	0.04857	0.23149	0.75643
	A1N->Y (RR)	0.07238	0.23937	0.64777
	B0->Y (FR)	0.04069	0.21750	0.74011

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2XB1X2H7H	A0->Y (RF)	0.03568	0.17490	0.59845
	A1N->Y (FF)	0.07171	0.20552	0.52368
	B0->Y (RF)	0.01570	0.11209	0.46179

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2XB1X2H7H	A0	0.00136	0.00141	0.00143
	A0	-0.00019	-0.00017	-0.00016
	A0	0.00016	0.00016	0.00016
	A0	-0.00009	-0.00006	-0.00004
	A1N	0.00133	0.00140	0.00147
	A1N	-0.00015	-0.00015	-0.00013
	A1N	0.00007	0.00007	0.00007
	A1N	0.00138	0.00145	0.00151
	B0	0.00092	0.00100	0.00105
	B0	-0.00004	-0.00004	-0.00004
	B0	0.00016	0.00016	0.00016
	B0	-0.00004	0.00001	0.00006

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2XB1X2H7H	A0	0.00008	0.00012	0.00014
	A0	0.00016	0.00017	0.00019
	A0	-0.00016	-0.00016	-0.00016
	A0	0.00148	0.00155	0.00158
	A1N	0.00121	0.00127	0.00134
	A1N	0.00013	0.00015	0.00015
	A1N	-0.00007	-0.00007	-0.00007
	A1N	0.00109	0.00115	0.00121
	B0	0.00002	0.00008	0.00012
	B0	0.00004	0.00004	0.00005
	B0	-0.00009	-0.00009	-0.00008
	B0	0.00113	0.00121	0.00125

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X2H7H	(A1N * B0 * !Y)	-0.00023	-0.00023	-0.00023
	(A1N * B0 * !Y)	-0.00002	-0.00001	-0.00001
	(A1N * B0 * !Y)	0.00002	0.00002	0.00002
	(A1N * B0 * !Y)	0.00032	0.00032	0.00032
	(A1N * !B0 * Y)	-0.00026	-0.00026	-0.00026
	(A1N * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1N * !B0 * Y)	0.00002	0.00002	0.00002
	(A1N * !B0 * Y)	0.00029	0.00030	0.00030
	(!A1N * B0 * !Y)	-0.00023	-0.00021	-0.00018
	(!A1N * B0 * !Y)	-0.00004	-0.00004	-0.00004
	(!A1N * B0 * !Y)	0.00001	0.00001	0.00001
	(!A1N * B0 * !Y)	0.00031	0.00031	0.00032

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X2H7H	(A1N * B0 * !Y)	0.00023	0.00023	0.00023
	(A1N * B0 * !Y)	0.00001	0.00002	0.00002
	(A1N * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1N * B0 * !Y)	-0.00032	-0.00032	-0.00030
	(A1N * !B0 * Y)	0.00026	0.00026	0.00027
	(A1N * !B0 * Y)	0.00001	0.00002	0.00002
	(A1N * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(A1N * !B0 * Y)	-0.00029	-0.00028	-0.00027
	(!A1N * B0 * !Y)	0.00022	0.00023	0.00023
	(!A1N * B0 * !Y)	0.00004	0.00004	0.00004
	(!A1N * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1N * B0 * !Y)	-0.00031	-0.00031	-0.00031

Passive power(pJ) for A1N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X2H7H	(B0 * !Y)	0.00004	0.00006	0.00009
	(B0 * !Y)	0.00007	0.00007	0.00007
	(B0 * !Y)	-0.00003	-0.00003	-0.00003
	(B0 * !Y)	0.00092	0.00094	0.00097
	(!A0 * !B0 * Y)	0.00023	0.00026	0.00029
	(!A0 * !B0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !B0 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !B0 * Y)	0.00112	0.00114	0.00117

Passive power(pJ) for A1N falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X2H7H	(B0 * !Y)	0.00102	0.00105	0.00109
	(B0 * !Y)	-0.00007	-0.00007	-0.00007
	(B0 * !Y)	0.00003	0.00003	0.00003
	(B0 * !Y)	0.00013	0.00016	0.00020
	(!A0 * !B0 * Y)	0.00076	0.00079	0.00082
	(!A0 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !B0 * Y)	0.00006	0.00006	0.00007
	(!A0 * !B0 * Y)	-0.00012	-0.00009	-0.00006

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X2H7H	(A0 * !A1N * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1N * !Y)	-0.00006	-0.00005	-0.00005
	(A0 * !A1N * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1N * !Y)	0.00043	0.00043	0.00044

Passive power(pJ) for B0 falling (conditional):

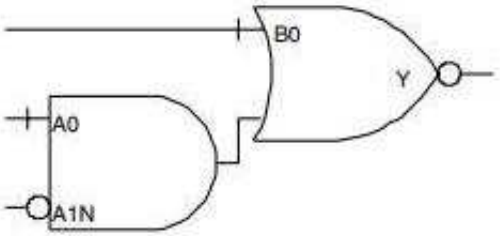
Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X2H7H	(A0 * !A1N * !Y)	0.00002	0.00002	0.00002
	(A0 * !A1N * !Y)	0.00005	0.00006	0.00006
	(A0 * !A1N * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1N * !Y)	-0.00043	-0.00043	-0.00043

AOI2XB1X3H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI2XB1 cell provides the logical inverted OR of one AND group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1N	B0	Y
0	x	0	1
0	x	1	0
1	0	x	0
1	1	0	1
1	1	1	0

Footprint

Cell Name	Area
AOI2XB1X3H7H	3.64000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1N	B0	Y
AOI2XB1X3H7H	0.00188	0.00108	0.00200	0.04351

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI2XB1X3H7H	0.00000	0.03586	0.05810

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2XB1X3H7H	A0->Y (FR)	0.04936	0.23224	0.75775
	A1N->Y (RR)	0.07341	0.24514	0.66424
	B0->Y (FR)	0.04111	0.21848	0.74316

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2XB1X3H7H	A0->Y (RF)	0.03760	0.17670	0.59945
	A1N->Y (FF)	0.07332	0.21139	0.54020
	B0->Y (RF)	0.01538	0.11093	0.45928

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2XB1X3H7H	A0	0.00231	0.00237	0.00242
	A0	-0.00025	-0.00025	-0.00025
	A0	0.00024	0.00024	0.00024
	A0	-0.00016	-0.00011	-0.00006
	A1N	0.00228	0.00239	0.00248
	A1N	-0.00023	-0.00022	-0.00020
	A1N	0.00010	0.00011	0.00011
	A1N	0.00193	0.00203	0.00212
	B0	0.00161	0.00173	0.00183
	B0	-0.00006	-0.00006	-0.00005
	B0	0.00024	0.00024	0.00024
	B0	0.00001	0.00010	0.00018

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2XB1X3H7H	A0	0.00022	0.00028	0.00032
	A0	0.00025	0.00025	0.00025
	A0	-0.00024	-0.00024	-0.00024
	A0	0.00261	0.00270	0.00275
	A1N	0.00166	0.00175	0.00183
	A1N	0.00020	0.00022	0.00023
	A1N	-0.00011	-0.00011	-0.00010
	A1N	0.00191	0.00199	0.00207
	B0	0.00012	0.00022	0.00029
	B0	0.00006	0.00006	0.00009
	B0	-0.00013	-0.00013	-0.00013
	B0	0.00198	0.00212	0.00220

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X3H7H	(A1N * B0 * !Y)	-0.00038	-0.00038	-0.00037
	(A1N * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1N * B0 * !Y)	0.00002	0.00003	0.00003
	(A1N * B0 * !Y)	0.00060	0.00060	0.00061
	(A1N * !B0 * Y)	-0.00044	-0.00043	-0.00043
	(A1N * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(A1N * !B0 * Y)	0.00003	0.00003	0.00003
	(A1N * !B0 * Y)	0.00054	0.00055	0.00055
	(!A1N * B0 * !Y)	-0.00033	-0.00030	-0.00025
	(!A1N * B0 * !Y)	-0.00006	-0.00006	-0.00006
	(!A1N * B0 * !Y)	0.00001	0.00001	0.00002
	(!A1N * B0 * !Y)	0.00063	0.00063	0.00064

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X3H7H	(A1N * B0 * !Y)	0.00037	0.00038	0.00038
	(A1N * B0 * !Y)	0.00002	0.00002	0.00003
	(A1N * B0 * !Y)	-0.00003	-0.00003	-0.00002
	(A1N * B0 * !Y)	-0.00060	-0.00059	-0.00056
	(A1N * !B0 * Y)	0.00044	0.00044	0.00045
	(A1N * !B0 * Y)	0.00002	0.00002	0.00003
	(A1N * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(A1N * !B0 * Y)	-0.00054	-0.00052	-0.00049
	(!A1N * B0 * !Y)	0.00032	0.00032	0.00033
	(!A1N * B0 * !Y)	0.00006	0.00006	0.00006
	(!A1N * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1N * B0 * !Y)	-0.00063	-0.00062	-0.00062

Passive power(pJ) for A1N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X3H7H	(B0 * !Y)	0.00011	0.00014	0.00018
	(B0 * !Y)	0.00008	0.00009	0.00010
	(B0 * !Y)	-0.00004	-0.00004	-0.00004
	(B0 * !Y)	0.00108	0.00111	0.00114
	(!A0 * !B0 * Y)	0.00044	0.00047	0.00052
	(!A0 * !B0 * Y)	0.00005	0.00005	0.00005
	(!A0 * !B0 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !B0 * Y)	0.00143	0.00145	0.00149

Passive power(pJ) for A1N falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X3H7H	(B0 * !Y)	0.00138	0.00141	0.00146
	(B0 * !Y)	-0.00010	-0.00009	-0.00008
	(B0 * !Y)	0.00004	0.00004	0.00004
	(B0 * !Y)	0.00040	0.00043	0.00047
	(!A0 * !B0 * Y)	0.00093	0.00096	0.00100
	(!A0 * !B0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !B0 * Y)	0.00008	0.00009	0.00009
	(!A0 * !B0 * Y)	-0.00006	-0.00003	0.00000

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X3H7H	(A0 * !A1N * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * !A1N * !Y)	-0.00008	-0.00008	-0.00008
	(A0 * !A1N * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1N * !Y)	0.00075	0.00076	0.00076

Passive power(pJ) for B0 falling (conditional):

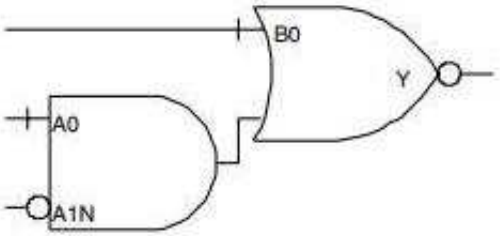
Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X3H7H	(A0 * !A1N * !Y)	0.00003	0.00003	0.00004
	(A0 * !A1N * !Y)	0.00008	0.00009	0.00009
	(A0 * !A1N * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1N * !Y)	-0.00076	-0.00075	-0.00074

AOI2XB1X4H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI2XB1 cell provides the logical inverted OR of one AND group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1N	B0	Y
0	x	0	1
0	x	1	0
1	0	x	0
1	1	0	1
1	1	1	0

Footprint

Cell Name	Area
AOI2XB1X4H7H	4.20000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1N	B0	Y
AOI2XB1X4H7H	0.00215	0.00117	0.00236	0.05439

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI2XB1X4H7H	0.00000	0.05750	0.10977

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2XB1X4H7H	A0->Y (FR)	0.04558	0.22944	0.75878
	A1N->Y (RR)	0.06892	0.24153	0.66262
	B0->Y (FR)	0.03768	0.21593	0.74288

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2XB1X4H7H	A0->Y (RF)	0.03488	0.17377	0.59909
	A1N->Y (FF)	0.06872	0.20638	0.53381
	B0->Y (RF)	0.01433	0.10960	0.46105

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2XB1X4H7H	A0	0.00271	0.00280	0.00286
	A0	-0.00034	-0.00034	-0.00033
	A0	0.00032	0.00032	0.00032
	A0	-0.00024	-0.00018	-0.00012
	A1N	0.00270	0.00282	0.00293
	A1N	-0.00030	-0.00030	-0.00027
	A1N	0.00014	0.00014	0.00015
	A1N	0.00212	0.00224	0.00234
	B0	0.00184	0.00203	0.00214
	B0	-0.00009	-0.00009	-0.00007
	B0	0.00031	0.00032	0.00032
	B0	-0.00005	0.00006	0.00016

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2XB1X4H7H	A0	0.00024	0.00031	0.00036
	A0	0.00033	0.00034	0.00034
	A0	-0.00032	-0.00032	-0.00032
	A0	0.00312	0.00321	0.00327
	A1N	0.00188	0.00198	0.00208
	A1N	0.00027	0.00030	0.00030
	A1N	-0.00014	-0.00014	-0.00014
	A1N	0.00231	0.00241	0.00251
	B0	0.00008	0.00021	0.00030
	B0	0.00007	0.00009	0.00011
	B0	-0.00018	-0.00017	-0.00017
	B0	0.00237	0.00249	0.00258

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X4H7H	(A1N * B0 * !Y)	-0.00048	-0.00048	-0.00047
	(A1N * B0 * !Y)	-0.00003	-0.00003	-0.00003
	(A1N * B0 * !Y)	0.00004	0.00004	0.00005
	(A1N * B0 * !Y)	0.00063	0.00063	0.00064
	(A1N * !B0 * Y)	-0.00053	-0.00053	-0.00053
	(A1N * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(A1N * !B0 * Y)	0.00003	0.00004	0.00004
	(A1N * !B0 * Y)	0.00058	0.00058	0.00059
	(!A1N * B0 * !Y)	-0.00040	-0.00037	-0.00031
	(!A1N * B0 * !Y)	-0.00008	-0.00008	-0.00007
	(!A1N * B0 * !Y)	0.00001	0.00002	0.00002
	(!A1N * B0 * !Y)	0.00067	0.00067	0.00068

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X4H7H	(A1N * B0 * !Y)	0.00047	0.00048	0.00048
	(A1N * B0 * !Y)	0.00003	0.00003	0.00003
	(A1N * B0 * !Y)	-0.00005	-0.00004	-0.00004
	(A1N * B0 * !Y)	-0.00064	-0.00062	-0.00059
	(A1N * !B0 * Y)	0.00053	0.00054	0.00055
	(A1N * !B0 * Y)	0.00003	0.00003	0.00003
	(A1N * !B0 * Y)	-0.00004	-0.00004	-0.00003
	(A1N * !B0 * Y)	-0.00058	-0.00056	-0.00052
	(!A1N * B0 * !Y)	0.00040	0.00040	0.00040
	(!A1N * B0 * !Y)	0.00007	0.00008	0.00008
	(!A1N * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1N * B0 * !Y)	-0.00067	-0.00067	-0.00066

Passive power(pJ) for A1N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X4H7H	(B0 * !Y)	0.00015	0.00018	0.00023
	(B0 * !Y)	0.00011	0.00012	0.00012
	(B0 * !Y)	-0.00005	-0.00005	-0.00005
	(B0 * !Y)	0.00123	0.00126	0.00130
	(!A0 * !B0 * Y)	0.00054	0.00057	0.00063
	(!A0 * !B0 * Y)	0.00006	0.00006	0.00006
	(!A0 * !B0 * Y)	-0.00011	-0.00011	-0.00010
	(!A0 * !B0 * Y)	0.00163	0.00166	0.00170

Passive power(pJ) for A1N falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X4H7H	(B0 * !Y)	0.00154	0.00158	0.00163
	(B0 * !Y)	-0.00012	-0.00012	-0.00011
	(B0 * !Y)	0.00005	0.00005	0.00005
	(B0 * !Y)	0.00045	0.00048	0.00053
	(!A0 * !B0 * Y)	0.00102	0.00105	0.00109
	(!A0 * !B0 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !B0 * Y)	0.00011	0.00011	0.00011
	(!A0 * !B0 * Y)	-0.00007	-0.00004	-0.00000

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X4H7H	(A0 * !A1N * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * !A1N * !Y)	-0.00011	-0.00011	-0.00010
	(A0 * !A1N * !Y)	0.00001	0.00002	0.00002
	(A0 * !A1N * !Y)	0.00085	0.00086	0.00087

Passive power(pJ) for B0 falling (conditional):

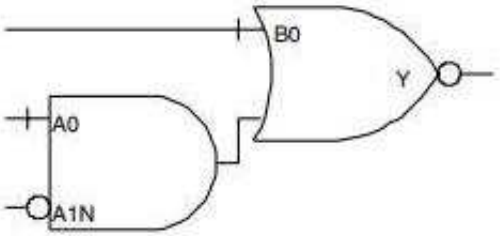
Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X4H7H	(A0 * !A1N * !Y)	0.00004	0.00004	0.00005
	(A0 * !A1N * !Y)	0.00012	0.00012	0.00013
	(A0 * !A1N * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * !A1N * !Y)	-0.00086	-0.00086	-0.00085

AOI2XB1X6H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI2XB1 cell provides the logical inverted OR of one AND group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1N	B0	Y
0	x	0	1
0	x	1	0
1	0	x	0
1	1	0	1
1	1	1	0

Footprint

Cell Name	Area
AOI2XB1X6H7H	5.04000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1N	B0	Y
AOI2XB1X6H7H	0.00319	0.00126	0.00345	0.08195

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI2XB1X6H7H	0.00000	0.08567	0.16203

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2XB1X6H7H	A0->Y (FR)	0.04278	0.22693	0.75852
	A1N->Y (RR)	0.07137	0.24930	0.68463
	B0->Y (FR)	0.03423	0.21249	0.74166

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2XB1X6H7H	A0->Y (RF)	0.03423	0.17361	0.60101
	A1N->Y (FF)	0.07330	0.21691	0.55925
	B0->Y (RF)	0.01334	0.10806	0.46085

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2XB1X6H7H	A0	0.00390	0.00403	0.00412
	A0	-0.00051	-0.00050	-0.00049
	A0	0.00047	0.00048	0.00048
	A0	-0.00045	-0.00036	-0.00028
	A1N	0.00401	0.00418	0.00434
	A1N	-0.00050	-0.00046	-0.00045
	A1N	0.00022	0.00022	0.00023
	A1N	0.00280	0.00297	0.00313
	B0	0.00256	0.00283	0.00301
	B0	-0.00013	-0.00013	-0.00010
	B0	0.00047	0.00048	0.00048
	B0	-0.00021	-0.00005	0.00010

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2XB1X6H7H	A0	0.00040	0.00050	0.00058
	A0	0.00049	0.00050	0.00051
	A0	-0.00048	-0.00048	-0.00047
	A0	0.00460	0.00478	0.00487
	A1N	0.00254	0.00269	0.00281
	A1N	0.00045	0.00046	0.00050
	A1N	-0.00022	-0.00022	-0.00021
	A1N	0.00354	0.00369	0.00382
	B0	0.00016	0.00034	0.00047
	B0	0.00011	0.00013	0.00016
	B0	-0.00026	-0.00026	-0.00025
	B0	0.00346	0.00369	0.00383

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X6H7H	(A1N * B0 * !Y)	-0.00071	-0.00071	-0.00071
	(A1N * B0 * !Y)	-0.00004	-0.00004	-0.00004
	(A1N * B0 * !Y)	0.00007	0.00007	0.00008
	(A1N * B0 * !Y)	0.00090	0.00092	0.00092
	(A1N * !B0 * Y)	-0.00079	-0.00078	-0.00078
	(A1N * !B0 * Y)	-0.00004	-0.00004	-0.00004
	(A1N * !B0 * Y)	0.00005	0.00006	0.00007
	(A1N * !B0 * Y)	0.00085	0.00086	0.00087
	(!A1N * B0 * !Y)	-0.00059	-0.00053	-0.00045
	(!A1N * B0 * !Y)	-0.00013	-0.00012	-0.00011
	(!A1N * B0 * !Y)	0.00001	0.00002	0.00003
	(!A1N * B0 * !Y)	0.00100	0.00101	0.00101

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X6H7H	(A1N * B0 * !Y)	0.00071	0.00071	0.00072
	(A1N * B0 * !Y)	0.00004	0.00005	0.00005
	(A1N * B0 * !Y)	-0.00008	-0.00007	-0.00007
	(A1N * B0 * !Y)	-0.00092	-0.00090	-0.00086
	(A1N * !B0 * Y)	0.00079	0.00080	0.00082
	(A1N * !B0 * Y)	0.00004	0.00004	0.00005
	(A1N * !B0 * Y)	-0.00007	-0.00006	-0.00005
	(A1N * !B0 * Y)	-0.00085	-0.00081	-0.00075
	(!A1N * B0 * !Y)	0.00059	0.00059	0.00059
	(!A1N * B0 * !Y)	0.00012	0.00012	0.00013
	(!A1N * B0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1N * B0 * !Y)	-0.00100	-0.00100	-0.00100

Passive power(pJ) for A1N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X6H7H	(B0 * !Y)	0.00030	0.00034	0.00039
	(B0 * !Y)	0.00016	0.00017	0.00018
	(B0 * !Y)	-0.00006	-0.00006	-0.00006
	(B0 * !Y)	0.00153	0.00157	0.00161
	(!A0 * !B0 * Y)	0.00090	0.00094	0.00097
	(!A0 * !B0 * Y)	0.00008	0.00009	0.00009
	(!A0 * !B0 * Y)	-0.00016	-0.00016	-0.00015
	(!A0 * !B0 * Y)	0.00216	0.00219	0.00224

Passive power(pJ) for A1N falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X6H7H	(B0 * !Y)	0.00201	0.00206	0.00212
	(B0 * !Y)	-0.00017	-0.00017	-0.00016
	(B0 * !Y)	0.00006	0.00006	0.00006
	(B0 * !Y)	0.00077	0.00080	0.00084
	(!A0 * !B0 * Y)	0.00121	0.00124	0.00129
	(!A0 * !B0 * Y)	-0.00009	-0.00009	-0.00008
	(!A0 * !B0 * Y)	0.00016	0.00016	0.00016
	(!A0 * !B0 * Y)	-0.00005	-0.00002	0.00003

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X6H7H	(A0 * !A1N * !Y)	-0.00007	-0.00006	-0.00006
	(A0 * !A1N * !Y)	-0.00015	-0.00015	-0.00013
	(A0 * !A1N * !Y)	0.00002	0.00002	0.00002
	(A0 * !A1N * !Y)	0.00126	0.00127	0.00128

Passive power(pJ) for B0 falling (conditional):

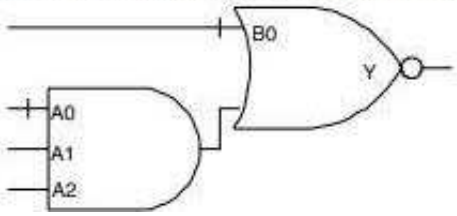
Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X6H7H	(A0 * !A1N * !Y)	0.00006	0.00006	0.00007
	(A0 * !A1N * !Y)	0.00014	0.00016	0.00016
	(A0 * !A1N * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1N * !Y)	-0.00128	-0.00127	-0.00125

AOI31X0P5H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI31 cell provides the logical inverted OR of one AND group and an additional input.
The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	A2	B0	Y
0	x	x	0	1
x	x	x	1	0
1	0	x	0	1
1	1	0	0	1
1	1	1	x	0

Footprint

Cell Name	Area
AOI31X0P5H7H	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	A2	B0	Y
AOI31X0P5H7H	0.00075	0.00076	0.00086	0.00089	0.01499

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI31X0P5H7H	0.00000	0.00944	0.01400

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI31X0P5H7H	A0->Y (FR)	0.06917	0.24940	0.75502
	A1->Y (FR)	0.06441	0.24274	0.74887
	A2->Y (FR)	0.06012	0.23627	0.74208
	B0->Y (FR)	0.05961	0.23320	0.73676

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI31X0P5H7H	A0->Y (RF)	0.06220	0.22195	0.66521
	A1->Y (RF)	0.06016	0.22590	0.69753
	A2->Y (RF)	0.05720	0.21956	0.69715
	B0->Y (RF)	0.01937	0.11211	0.44105

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI31X0P5H7H	A0	0.00126	0.00128	0.00130
	A0	-0.00011	-0.00010	-0.00010
	A0	0.00012	0.00012	0.00012
	A0	-0.00007	-0.00006	-0.00005
	A1	0.00114	0.00117	0.00118
	A1	-0.00010	-0.00010	-0.00010
	A1	0.00008	0.00009	0.00009
	A1	-0.00003	-0.00001	0.00001
	A2	0.00103	0.00107	0.00110
	A2	-0.00010	-0.00010	-0.00010
	A2	0.00002	0.00005	0.00005
	A2	-0.00003	0.00002	0.00007
	B0	0.00090	0.00093	0.00097
	B0	-0.00002	-0.00002	0.00000
	B0	0.00012	0.00012	0.00012
	B0	-0.00015	-0.00012	-0.00009

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI31X0P5H7H	A0	-0.00009	-0.00007	-0.00006
	A0	0.00010	0.00010	0.00011
	A0	-0.00012	-0.00012	-0.00012
	A0	0.00122	0.00126	0.00128
	A1	-0.00009	-0.00007	-0.00006
	A1	0.00010	0.00010	0.00010
	A1	-0.00009	-0.00009	-0.00008
	A1	0.00100	0.00106	0.00108
	A2	-0.00011	-0.00008	-0.00006
	A2	0.00010	0.00010	0.00010
	A2	-0.00005	-0.00005	-0.00002
	A2	0.00086	0.00090	0.00093
	B0	-0.00010	-0.00006	-0.00003
	B0	0.00000	0.00002	0.00002
	B0	-0.00005	-0.00005	-0.00004
	B0	0.00101	0.00104	0.00107

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X0P5H7H	(A1 * A2 * B0 * !Y)	-0.00009	-0.00008	-0.00006
	(A1 * A2 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * A2 * B0 * !Y)	0.00000	0.00000	0.00001
	(A1 * A2 * B0 * !Y)	0.00030	0.00030	0.00030
	(A1 * !A2 * B0 * !Y)	-0.00013	-0.00013	-0.00013
	(A1 * !A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * !Y)	0.00025	0.00026	0.00026
	(A1 * !A2 * !B0 * Y)	-0.00013	-0.00013	-0.00012
	(A1 * !A2 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * !B0 * Y)	0.00025	0.00026	0.00026
	(!A1 * B0 * !Y)	-0.00013	-0.00013	-0.00013
	(!A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !Y)	0.00026	0.00026	0.00026
	(!A1 * A2 * !B0 * Y)	-0.00013	-0.00013	-0.00013
	(!A1 * A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * Y)	0.00026	0.00026	0.00026
	(!A1 * !A2 * !B0 * Y)	-0.00013	-0.00013	-0.00013
	(!A1 * !A2 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B0 * Y)	0.00026	0.00026	0.00026

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X0P5H7H	(A1 * A2 * B0 * !Y)	0.00009	0.00009	0.00009
	(A1 * A2 * B0 * !Y)	0.00002	0.00002	0.00002
	(A1 * A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * A2 * B0 * !Y)	-0.00030	-0.00030	-0.00029
	(A1 * !A2 * B0 * !Y)	0.00013	0.00013	0.00013
	(A1 * !A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * !Y)	-0.00026	-0.00025	-0.00023
	(A1 * !A2 * !B0 * Y)	0.00012	0.00013	0.00013
	(A1 * !A2 * !B0 * Y)	0.00001	0.00001	0.00002
	(A1 * !A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !B0 * Y)	-0.00026	-0.00024	-0.00022
	(!A1 * B0 * !Y)	0.00013	0.00013	0.00013
	(!A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !Y)	-0.00026	-0.00025	-0.00024
	(!A1 * A2 * !B0 * Y)	0.00013	0.00013	0.00013
	(!A1 * A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * Y)	-0.00026	-0.00025	-0.00024
	(!A1 * !A2 * !B0 * Y)	0.00013	0.00013	0.00013
	(!A1 * !A2 * !B0 * Y)	0.00000	0.00001	0.00001
	(!A1 * !A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B0 * Y)	-0.00026	-0.00025	-0.00025

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X0P5H7H	(A0 * A2 * B0 * !Y)	-0.00009	-0.00008	-0.00006
	(A0 * A2 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * !Y)	0.00025	0.00026	0.00026
	(A0 * !A2 * B0 * !Y)	-0.00013	-0.00013	-0.00013
	(A0 * !A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * B0 * !Y)	0.00021	0.00021	0.00022
	(A0 * !A2 * !B0 * Y)	-0.00013	-0.00013	-0.00013
	(A0 * !A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B0 * Y)	0.00022	0.00022	0.00022
	(!A0 * A2 * B0 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * B0 * !Y)	0.00021	0.00021	0.00021
	(!A0 * A2 * !B0 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * !B0 * Y)	0.00004	0.00004	0.00004
	(!A0 * A2 * !B0 * Y)	0.00009	0.00009	0.00009
	(!A0 * !A2 * B0 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * B0 * !Y)	0.00005	0.00005	0.00005
	(!A0 * !A2 * B0 * !Y)	0.00009	0.00009	0.00009
	(!A0 * !A2 * !B0 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * !B0 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A2 * !B0 * Y)	0.00009	0.00009	0.00009

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X0P5H7H	(A0 * A2 * B0 * !Y)	0.00009	0.00009	0.00009
	(A0 * A2 * B0 * !Y)	0.00002	0.00002	0.00002
	(A0 * A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B0 * !Y)	-0.00026	-0.00025	-0.00025
	(A0 * !A2 * B0 * !Y)	0.00013	0.00013	0.00013
	(A0 * !A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * B0 * !Y)	-0.00022	-0.00021	-0.00020
	(A0 * !A2 * !B0 * Y)	0.00013	0.00013	0.00015
	(A0 * !A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B0 * Y)	-0.00022	-0.00021	-0.00019
	(!A0 * A2 * B0 * !Y)	0.00013	0.00013	0.00013
	(!A0 * A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B0 * !Y)	-0.00021	-0.00021	-0.00020
	(!A0 * A2 * !B0 * Y)	0.00013	0.00013	0.00013
	(!A0 * A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * !B0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A2 * !B0 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A2 * B0 * !Y)	0.00013	0.00013	0.00013
	(!A0 * !A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A2 * B0 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A2 * B0 * !Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A2 * !B0 * Y)	0.00013	0.00013	0.00013
	(!A0 * !A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A2 * !B0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A2 * !B0 * Y)	-0.00009	-0.00009	-0.00009

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X0P5H7H	(A0 * A1 * B0 * !Y)	-0.00010	-0.00008	-0.00006
	(A0 * A1 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !Y)	0.00027	0.00027	0.00028
	(!A1 * B0 * !Y)	-0.00013	-0.00013	-0.00013
	(!A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !Y)	0.00023	0.00023	0.00023
	(!A1 * !B0 * Y)	-0.00024	-0.00023	-0.00023
	(!A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * Y)	0.00006	0.00006	0.00007
	(!A0 * A1 * B0 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * !Y)	0.00023	0.00023	0.00023
	(!A0 * A1 * !B0 * Y)	-0.00024	-0.00023	-0.00023
	(!A0 * A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B0 * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X0P5H7H	(A0 * A1 * B0 * !Y)	0.00009	0.00010	0.00010
	(A0 * A1 * B0 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * !Y)	-0.00027	-0.00027	-0.00027
	(!A1 * B0 * !Y)	0.00013	0.00013	0.00013
	(!A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !Y)	-0.00023	-0.00022	-0.00021
	(!A1 * !B0 * Y)	0.00023	0.00023	0.00024
	(!A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * Y)	-0.00002	-0.00003	-0.00002
	(!A1 * !B0 * Y)	-0.00007	-0.00006	-0.00006
	(!A0 * A1 * B0 * !Y)	0.00013	0.00013	0.00013
	(!A0 * A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * !Y)	-0.00023	-0.00021	-0.00019
	(!A0 * A1 * !B0 * Y)	0.00023	0.00023	0.00024
	(!A0 * A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B0 * Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X0P5H7H	(A0 * A1 * A2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * A2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !Y)	0.00036	0.00037	0.00037

Passive power(pJ) for B0 falling (conditional):

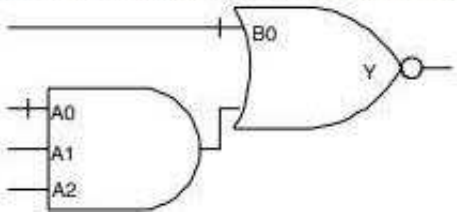
Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X0P5H7H	(A0 * A1 * A2 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * A2 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * A2 * !Y)	-0.00037	-0.00037	-0.00036

AOI31X0P7H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI31 cell provides the logical inverted OR of one AND group and an additional input.
The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	A2	B0	Y
0	x	x	0	1
x	x	x	1	0
1	0	x	0	1
1	1	0	0	1
1	1	1	x	0

Footprint

Cell Name	Area
AOI31X0P7H7H	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	A2	B0	Y
AOI31X0P7H7H	0.00078	0.00080	0.00089	0.00092	0.01714

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI31X0P7H7H	0.00000	0.01072	0.01394

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI31X0P7H7H	A0->Y (FR)	0.06291	0.24402	0.75454
	A1->Y (FR)	0.05858	0.23773	0.74825
	A2->Y (FR)	0.05405	0.23096	0.74159
	B0->Y (FR)	0.05378	0.22851	0.73641

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI31X0P7H7H	A0->Y (RF)	0.05820	0.22224	0.67975
	A1->Y (RF)	0.05617	0.22559	0.71202
	A2->Y (RF)	0.05244	0.21727	0.70311
	B0->Y (RF)	0.01780	0.11105	0.44588

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI31X0P7H7H	A0	0.00131	0.00133	0.00135
	A0	-0.00012	-0.00012	-0.00012
	A0	0.00014	0.00014	0.00014
	A0	-0.00011	-0.00010	-0.00009
	A1	0.00119	0.00121	0.00123
	A1	-0.00012	-0.00012	-0.00012
	A1	0.00010	0.00010	0.00010
	A1	-0.00006	-0.00004	-0.00002
	A2	0.00105	0.00110	0.00113
	A2	-0.00013	-0.00012	-0.00012
	A2	0.00002	0.00005	0.00011
	A2	-0.00008	-0.00002	0.00004
	B0	0.00092	0.00096	0.00100
	B0	-0.00002	-0.00002	0.00000
	B0	0.00014	0.00014	0.00014
	B0	-0.00018	-0.00015	-0.00012

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI31X0P7H7H	A0	-0.00010	-0.00008	-0.00007
	A0	0.00012	0.00012	0.00012
	A0	-0.00014	-0.00014	-0.00014
	A0	0.00131	0.00135	0.00136
	A1	-0.00010	-0.00008	-0.00007
	A1	0.00012	0.00012	0.00012
	A1	-0.00010	-0.00010	-0.00010
	A1	0.00111	0.00113	0.00115
	A2	-0.00012	-0.00009	-0.00007
	A2	0.00012	0.00012	0.00013
	A2	-0.00005	-0.00005	-0.00002
	A2	0.00092	0.00096	0.00099
	B0	-0.00011	-0.00007	0.00012
	B0	0.00002	0.00002	0.00003
	B0	-0.00005	-0.00005	-0.00005
	B0	0.00107	0.00110	0.00113

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X0P7H7H	(A1 * A2 * B0 * !Y)	-0.00010	-0.00009	-0.00007
	(A1 * A2 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * A2 * B0 * !Y)	0.00030	0.00030	0.00031
	(A1 * !A2 * B0 * !Y)	-0.00014	-0.00014	-0.00014
	(A1 * !A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * !Y)	0.00001	0.00002	0.00002
	(A1 * !A2 * B0 * !Y)	0.00026	0.00026	0.00026
	(A1 * !A2 * !B0 * Y)	-0.00014	-0.00014	-0.00014
	(A1 * !A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !B0 * Y)	0.00001	0.00002	0.00002
	(A1 * !A2 * !B0 * Y)	0.00026	0.00026	0.00026
	(!A1 * B0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !Y)	0.00001	0.00002	0.00002
	(!A1 * B0 * !Y)	0.00026	0.00026	0.00026
	(!A1 * A2 * !B0 * Y)	-0.00014	-0.00014	-0.00014
	(!A1 * A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * Y)	0.00026	0.00026	0.00027
	(!A1 * !A2 * !B0 * Y)	-0.00014	-0.00014	-0.00014
	(!A1 * !A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B0 * Y)	0.00001	0.00002	0.00002
	(!A1 * !A2 * !B0 * Y)	0.00026	0.00026	0.00026

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X0P7H7H	(A1 * A2 * B0 * !Y)	0.00010	0.00010	0.00010
	(A1 * A2 * B0 * !Y)	0.00002	0.00002	0.00002
	(A1 * A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * A2 * B0 * !Y)	-0.00030	-0.00030	-0.00030
	(A1 * !A2 * B0 * !Y)	0.00014	0.00014	0.00014
	(A1 * !A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * !A2 * B0 * !Y)	-0.00026	-0.00025	-0.00023
	(A1 * !A2 * !B0 * Y)	0.00014	0.00014	0.00014
	(A1 * !A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * !B0 * Y)	-0.00002	-0.00002	-0.00001
	(A1 * !A2 * !B0 * Y)	-0.00026	-0.00025	-0.00023
	(!A1 * B0 * !Y)	0.00014	0.00014	0.00014
	(!A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * B0 * !Y)	-0.00026	-0.00026	-0.00025
	(!A1 * A2 * !B0 * Y)	0.00014	0.00014	0.00014
	(!A1 * A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * Y)	-0.00027	-0.00026	-0.00024
	(!A1 * !A2 * !B0 * Y)	0.00014	0.00014	0.00014
	(!A1 * !A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B0 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !A2 * !B0 * Y)	-0.00026	-0.00026	-0.00024

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X0P7H7H	(A0 * A2 * B0 * !Y)	-0.00011	-0.00009	-0.00007
	(A0 * A2 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A2 * B0 * !Y)	0.00000	0.00000	0.00001
	(A0 * A2 * B0 * !Y)	0.00025	0.00026	0.00026
	(A0 * !A2 * B0 * !Y)	-0.00015	-0.00015	-0.00014
	(A0 * !A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * B0 * !Y)	0.00001	0.00002	0.00002
	(A0 * !A2 * B0 * !Y)	0.00021	0.00022	0.00022
	(A0 * !A2 * !B0 * Y)	-0.00015	-0.00015	-0.00014
	(A0 * !A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B0 * Y)	0.00022	0.00022	0.00022
	(!A0 * A2 * B0 * !Y)	-0.00015	-0.00015	-0.00014
	(!A0 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * A2 * B0 * !Y)	0.00021	0.00022	0.00022
	(!A0 * A2 * !B0 * Y)	-0.00015	-0.00015	-0.00014
	(!A0 * A2 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A2 * !B0 * Y)	0.00005	0.00005	0.00005
	(!A0 * A2 * !B0 * Y)	0.00009	0.00009	0.00009
	(!A0 * !A2 * B0 * !Y)	-0.00015	-0.00015	-0.00014
	(!A0 * !A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * B0 * !Y)	0.00005	0.00005	0.00005
	(!A0 * !A2 * B0 * !Y)	0.00008	0.00009	0.00009
	(!A0 * !A2 * !B0 * Y)	-0.00015	-0.00015	-0.00014
	(!A0 * !A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * !B0 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A2 * !B0 * Y)	0.00009	0.00009	0.00009

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X0P7H7H	(A0 * A2 * B0 * !Y)	0.00010	0.00011	0.00011
	(A0 * A2 * B0 * !Y)	0.00002	0.00002	0.00002
	(A0 * A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B0 * !Y)	-0.00026	-0.00026	-0.00025
	(A0 * !A2 * B0 * !Y)	0.00014	0.00015	0.00015
	(A0 * !A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * B0 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * !A2 * B0 * !Y)	-0.00022	-0.00021	-0.00020
	(A0 * !A2 * !B0 * Y)	0.00015	0.00015	0.00016
	(A0 * !A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B0 * Y)	-0.00022	-0.00021	-0.00019
	(!A0 * A2 * B0 * !Y)	0.00014	0.00015	0.00015
	(!A0 * A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * B0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A2 * B0 * !Y)	-0.00022	-0.00021	-0.00020
	(!A0 * A2 * !B0 * Y)	0.00015	0.00015	0.00015
	(!A0 * A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * !B0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * A2 * !B0 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A2 * B0 * !Y)	0.00014	0.00015	0.00015
	(!A0 * !A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A2 * B0 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A2 * B0 * !Y)	-0.00009	-0.00009	-0.00008
	(!A0 * !A2 * !B0 * Y)	0.00015	0.00015	0.00015
	(!A0 * !A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A2 * !B0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A2 * !B0 * Y)	-0.00009	-0.00009	-0.00008

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X0P7H7H	(A0 * A1 * B0 * !Y)	-0.00011	-0.00009	-0.00007
	(A0 * A1 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !Y)	0.00028	0.00028	0.00028
	(!A1 * B0 * !Y)	-0.00015	-0.00015	-0.00014
	(!A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !Y)	0.00001	0.00002	0.00002
	(!A1 * B0 * !Y)	0.00024	0.00024	0.00024
	(!A1 * !B0 * Y)	-0.00025	-0.00025	-0.00025
	(!A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * Y)	0.00006	0.00006	0.00006
	(!A0 * A1 * B0 * !Y)	-0.00015	-0.00015	-0.00014
	(!A0 * A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * B0 * !Y)	0.00023	0.00023	0.00023
	(!A0 * A1 * !B0 * Y)	-0.00025	-0.00025	-0.00024
	(!A0 * A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * !B0 * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X0P7H7H	(A0 * A1 * B0 * !Y)	0.00010	0.00011	0.00011
	(A0 * A1 * B0 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * !Y)	-0.00028	-0.00028	-0.00028
	(!A1 * B0 * !Y)	0.00014	0.00015	0.00015
	(!A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * B0 * !Y)	-0.00024	-0.00023	-0.00022
	(!A1 * !B0 * Y)	0.00025	0.00025	0.00025
	(!A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * A1 * B0 * !Y)	0.00014	0.00015	0.00015
	(!A0 * A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * B0 * !Y)	-0.00023	-0.00022	-0.00019
	(!A0 * A1 * !B0 * Y)	0.00025	0.00025	0.00025
	(!A0 * A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * !B0 * Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X0P7H7H	(A0 * A1 * A2 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * A2 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * A2 * !Y)	0.00038	0.00038	0.00038

Passive power(pJ) for B0 falling (conditional):

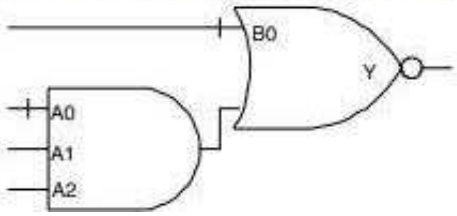
Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X0P7H7H	(A0 * A1 * A2 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * A2 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * A2 * !Y)	-0.00038	-0.00038	-0.00037

AOI31X1H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI31 cell provides the logical inverted OR of one AND group and an additional input.
The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	A2	B0	Y
0	x	x	0	1
x	x	x	1	0
1	0	x	0	1
1	1	0	0	1
1	1	1	x	0

Footprint

Cell Name	Area
AOI31X1H7H	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	A2	B0	Y
AOI31X1H7H	0.00083	0.00087	0.00096	0.00106	0.02050

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI31X1H7H	0.00000	0.01364	0.02317

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI31X1H7H	A0->Y (FR)	0.05892	0.24108	0.75629
	A1->Y (FR)	0.05528	0.23553	0.75073
	A2->Y (FR)	0.05005	0.22812	0.74281
	B0->Y (FR)	0.05115	0.22682	0.73913

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI31X1H7H	A0->Y (RF)	0.05728	0.22793	0.70506
	A1->Y (RF)	0.05564	0.23101	0.73348
	A2->Y (RF)	0.05064	0.22088	0.71992
	B0->Y (RF)	0.01759	0.11340	0.45736

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI31X1H7H	A0	0.00151	0.00154	0.00155
	A0	-0.00015	-0.00015	-0.00013
	A0	0.00016	0.00016	0.00016
	A0	-0.00010	-0.00009	-0.00008
	A1	0.00138	0.00141	0.00143
	A1	-0.00015	-0.00015	-0.00015
	A1	0.00011	0.00011	0.00012
	A1	-0.00006	-0.00003	-0.00001
	A2	0.00122	0.00126	0.00130
	A2	-0.00015	-0.00015	-0.00014
	A2	0.00003	0.00006	0.00007
	A2	-0.00006	-0.00002	0.00004
	B0	0.00108	0.00114	0.00119
	B0	-0.00003	-0.00003	-0.00002
	B0	0.00016	0.00016	0.00016
	B0	-0.00014	-0.00010	-0.00006

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI31X1H7H	A0	-0.00012	-0.00010	-0.00008
	A0	0.00013	0.00015	0.00015
	A0	-0.00016	-0.00016	-0.00016
	A0	0.00149	0.00152	0.00154
	A1	-0.00012	-0.00010	-0.00008
	A1	0.00015	0.00015	0.00015
	A1	-0.00012	-0.00011	-0.00011
	A1	0.00125	0.00129	0.00131
	A2	-0.00014	-0.00011	-0.00008
	A2	0.00014	0.00015	0.00015
	A2	-0.00006	-0.00006	-0.00003
	A2	0.00103	0.00109	0.00112
	B0	-0.00015	-0.00010	-0.00007
	B0	0.00003	0.00003	0.00009
	B0	-0.00006	-0.00006	-0.00006
	B0	0.00114	0.00120	0.00124

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X1H7H	(A1 * A2 * B0 * !Y)	-0.00013	-0.00011	-0.00008
	(A1 * A2 * B0 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * A2 * B0 * !Y)	0.00000	0.00001	0.00001
	(A1 * A2 * B0 * !Y)	0.00029	0.00029	0.00030
	(A1 * !A2 * B0 * !Y)	-0.00017	-0.00017	-0.00017
	(A1 * !A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * !Y)	0.00002	0.00002	0.00002
	(A1 * !A2 * B0 * !Y)	0.00025	0.00025	0.00025
	(A1 * !A2 * !B0 * Y)	-0.00017	-0.00017	-0.00017
	(A1 * !A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !B0 * Y)	0.00002	0.00002	0.00002
	(A1 * !A2 * !B0 * Y)	0.00025	0.00025	0.00025
	(!A1 * B0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * !Y)	0.00025	0.00026	0.00026
	(!A1 * A2 * !B0 * Y)	-0.00017	-0.00017	-0.00017
	(!A1 * A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * Y)	0.00002	0.00002	0.00002
	(!A1 * A2 * !B0 * Y)	0.00026	0.00026	0.00026
	(!A1 * !A2 * !B0 * Y)	-0.00017	-0.00017	-0.00017
	(!A1 * !A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !A2 * !B0 * Y)	0.00025	0.00025	0.00026

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X1H7H	(A1 * A2 * B0 * !Y)	0.00012	0.00013	0.00013
	(A1 * A2 * B0 * !Y)	0.00003	0.00003	0.00003
	(A1 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * A2 * B0 * !Y)	-0.00029	-0.00029	-0.00029
	(A1 * !A2 * B0 * !Y)	0.00017	0.00017	0.00017
	(A1 * !A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * B0 * !Y)	-0.00025	-0.00024	-0.00022
	(A1 * !A2 * !B0 * Y)	0.00017	0.00017	0.00017
	(A1 * !A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * !B0 * Y)	-0.00025	-0.00024	-0.00022
	(!A1 * B0 * !Y)	0.00017	0.00017	0.00017
	(!A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * !Y)	-0.00026	-0.00025	-0.00024
	(!A1 * A2 * !B0 * Y)	0.00017	0.00017	0.00017
	(!A1 * A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * !B0 * Y)	-0.00026	-0.00025	-0.00023
	(!A1 * !A2 * !B0 * Y)	0.00017	0.00017	0.00017
	(!A1 * !A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !A2 * !B0 * Y)	-0.00026	-0.00025	-0.00023

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X1H7H	(A0 * A2 * B0 * !Y)	-0.00013	-0.00011	-0.00008
	(A0 * A2 * B0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A2 * B0 * !Y)	0.00000	0.00001	0.00001
	(A0 * A2 * B0 * !Y)	0.00025	0.00025	0.00025
	(A0 * !A2 * B0 * !Y)	-0.00018	-0.00018	-0.00018
	(A0 * !A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * B0 * !Y)	0.00002	0.00002	0.00002
	(A0 * !A2 * B0 * !Y)	0.00021	0.00021	0.00021
	(A0 * !A2 * !B0 * Y)	-0.00019	-0.00018	-0.00018
	(A0 * !A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B0 * Y)	0.00001	0.00002	0.00002
	(A0 * !A2 * !B0 * Y)	0.00021	0.00021	0.00021
	(!A0 * A2 * B0 * !Y)	-0.00018	-0.00018	-0.00018
	(!A0 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * A2 * B0 * !Y)	0.00021	0.00021	0.00021
	(!A0 * A2 * !B0 * Y)	-0.00019	-0.00018	-0.00018
	(!A0 * A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * !B0 * Y)	0.00005	0.00005	0.00005
	(!A0 * A2 * !B0 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * B0 * !Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * B0 * !Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * B0 * !Y)	0.00007	0.00007	0.00007
	(!A0 * !A2 * !B0 * Y)	-0.00019	-0.00018	-0.00018
	(!A0 * !A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * !B0 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * !B0 * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X1H7H	(A0 * A2 * B0 * !Y)	0.00013	0.00013	0.00013
	(A0 * A2 * B0 * !Y)	0.00003	0.00003	0.00003
	(A0 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A2 * B0 * !Y)	-0.00025	-0.00025	-0.00025
	(A0 * !A2 * B0 * !Y)	0.00018	0.00018	0.00018
	(A0 * !A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A2 * B0 * !Y)	-0.00021	-0.00020	-0.00019
	(A0 * !A2 * !B0 * Y)	0.00018	0.00019	0.00020
	(A0 * !A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B0 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * !A2 * !B0 * Y)	-0.00021	-0.00020	-0.00018
	(!A0 * A2 * B0 * !Y)	0.00018	0.00018	0.00018
	(!A0 * A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A2 * B0 * !Y)	-0.00021	-0.00020	-0.00019
	(!A0 * A2 * !B0 * Y)	0.00018	0.00019	0.00019
	(!A0 * A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * !B0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * A2 * !B0 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * B0 * !Y)	0.00018	0.00018	0.00018
	(!A0 * !A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A2 * B0 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * B0 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A2 * !B0 * Y)	0.00019	0.00019	0.00019
	(!A0 * !A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A2 * !B0 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * !B0 * Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X1H7H	(A0 * A1 * B0 * !Y)	-0.00013	-0.00011	-0.00009
	(A0 * A1 * B0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * B0 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B0 * !Y)	0.00026	0.00026	0.00026
	(!A1 * B0 * !Y)	-0.00018	-0.00018	-0.00018
	(!A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * !Y)	0.00022	0.00022	0.00022
	(!A1 * !B0 * Y)	-0.00028	-0.00027	-0.00027
	(!A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * Y)	0.00005	0.00005	0.00005
	(!A0 * A1 * B0 * !Y)	-0.00018	-0.00018	-0.00018
	(!A0 * A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * B0 * !Y)	0.00021	0.00022	0.00022
	(!A0 * A1 * !B0 * Y)	-0.00028	-0.00028	-0.00027
	(!A0 * A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * !B0 * Y)	0.00005	0.00005	0.00006

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X1H7H	(A0 * A1 * B0 * !Y)	0.00013	0.00013	0.00013
	(A0 * A1 * B0 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * B0 * !Y)	-0.00026	-0.00026	-0.00026
	(!A1 * B0 * !Y)	0.00018	0.00018	0.00018
	(!A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * !Y)	-0.00022	-0.00021	-0.00020
	(!A1 * !B0 * Y)	0.00027	0.00028	0.00028
	(!A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * A1 * B0 * !Y)	0.00018	0.00018	0.00018
	(!A0 * A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * B0 * !Y)	-0.00022	-0.00020	-0.00018
	(!A0 * A1 * !B0 * Y)	0.00027	0.00028	0.00028
	(!A0 * A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * !B0 * Y)	-0.00005	-0.00005	-0.00005

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X1H7H	(A0 * A1 * A2 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * A2 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * A2 * !Y)	0.00039	0.00039	0.00039

Passive power(pJ) for B0 falling (conditional):

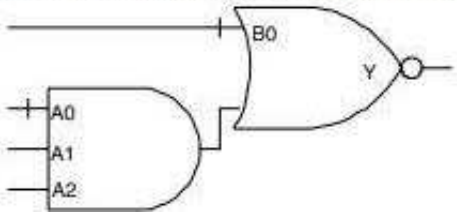
Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X1H7H	(A0 * A1 * A2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * A2 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * A2 * !Y)	-0.00039	-0.00039	-0.00038

AOI31X1P4H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI31 cell provides the logical inverted OR of one AND group and an additional input.
The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	A2	B0	Y
0	x	x	0	1
x	x	x	1	0
1	0	x	0	1
1	1	0	0	1
1	1	1	x	0

Footprint

Cell Name	Area
AOI31X1P4H7H	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	A2	B0	Y
AOI31X1P4H7H	0.00089	0.00092	0.00103	0.00113	0.02334

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI31X1P4H7H	0.00000	0.01746	0.03453

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI31X1P4H7H	A0->Y (FR)	0.05542	0.23827	0.75601
	A1->Y (FR)	0.05158	0.23247	0.74949
	A2->Y (FR)	0.04669	0.22535	0.74337
	B0->Y (FR)	0.04792	0.22464	0.74038

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI31X1P4H7H	A0->Y (RF)	0.05447	0.22709	0.71090
	A1->Y (RF)	0.05234	0.22925	0.73723
	A2->Y (RF)	0.04762	0.21888	0.72333
	B0->Y (RF)	0.01676	0.11308	0.46069

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI31X1P4H7H	A0	0.00162	0.00167	0.00168
	A0	-0.00017	-0.00017	-0.00017
	A0	0.00018	0.00019	0.00019
	A0	-0.00013	-0.00011	-0.00010
	A1	0.00148	0.00151	0.00154
	A1	-0.00017	-0.00017	-0.00015
	A1	0.00013	0.00013	0.00013
	A1	-0.00009	-0.00006	-0.00004
	A2	0.00131	0.00136	0.00139
	A2	-0.00017	-0.00017	-0.00017
	A2	0.00004	0.00007	0.00007
	A2	-0.00009	-0.00005	-0.00000
	B0	0.00116	0.00123	0.00128
	B0	-0.00004	-0.00003	0.00000
	B0	0.00018	0.00019	0.00019
	B0	-0.00015	-0.00011	-0.00006

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI31X1P4H7H	A0	-0.00014	-0.00011	-0.00009
	A0	0.00017	0.00017	0.00017
	A0	-0.00019	-0.00019	-0.00018
	A0	0.00163	0.00166	0.00168
	A1	-0.00014	-0.00011	-0.00009
	A1	0.00015	0.00017	0.00017
	A1	-0.00013	-0.00013	-0.00013
	A1	0.00136	0.00141	0.00143
	A2	-0.00016	-0.00012	-0.00009
	A2	0.00017	0.00017	0.00017
	A2	-0.00007	-0.00007	-0.00004
	A2	0.00113	0.00119	0.00122
	B0	-0.00034	-0.00012	0.00001
	B0	0.00000	0.00004	0.00031
	B0	-0.00007	-0.00007	-0.00007
	B0	0.00123	0.00130	0.00134

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X1P4H7H	(A1 * A2 * B0 * !Y)	-0.00014	-0.00012	-0.00010
	(A1 * A2 * B0 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * A2 * B0 * !Y)	0.00030	0.00031	0.00031
	(A1 * !A2 * B0 * !Y)	-0.00019	-0.00019	-0.00019
	(A1 * !A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * !Y)	0.00002	0.00002	0.00002
	(A1 * !A2 * B0 * !Y)	0.00026	0.00026	0.00026
	(A1 * !A2 * !B0 * Y)	-0.00019	-0.00019	-0.00019
	(A1 * !A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !B0 * Y)	0.00002	0.00002	0.00002
	(A1 * !A2 * !B0 * Y)	0.00026	0.00026	0.00026
	(!A1 * B0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * !Y)	0.00027	0.00027	0.00027
	(!A1 * A2 * !B0 * Y)	-0.00019	-0.00019	-0.00019
	(!A1 * A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * Y)	0.00002	0.00002	0.00002
	(!A1 * A2 * !B0 * Y)	0.00026	0.00027	0.00027
	(!A1 * !A2 * !B0 * Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !A2 * !B0 * Y)	0.00026	0.00027	0.00027

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X1P4H7H	(A1 * A2 * B0 * !Y)	0.00014	0.00014	0.00014
	(A1 * A2 * B0 * !Y)	0.00003	0.00003	0.00003
	(A1 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B0 * !Y)	-0.00031	-0.00030	-0.00030
	(A1 * !A2 * B0 * !Y)	0.00019	0.00019	0.00019
	(A1 * !A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * B0 * !Y)	-0.00026	-0.00025	-0.00023
	(A1 * !A2 * !B0 * Y)	0.00019	0.00019	0.00019
	(A1 * !A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * !B0 * Y)	-0.00026	-0.00025	-0.00023
	(!A1 * B0 * !Y)	0.00019	0.00019	0.00019
	(!A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * !Y)	-0.00027	-0.00026	-0.00025
	(!A1 * A2 * !B0 * Y)	0.00019	0.00019	0.00019
	(!A1 * A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * !B0 * Y)	-0.00027	-0.00026	-0.00024
	(!A1 * !A2 * !B0 * Y)	0.00019	0.00019	0.00019
	(!A1 * !A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !A2 * !B0 * Y)	-0.00027	-0.00026	-0.00024

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X1P4H7H	(A0 * A2 * B0 * !Y)	-0.00015	-0.00013	-0.00010
	(A0 * A2 * B0 * !Y)	-0.00004	-0.00003	-0.00003
	(A0 * A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A2 * B0 * !Y)	0.00026	0.00026	0.00027
	(A0 * !A2 * B0 * !Y)	-0.00020	-0.00020	-0.00020
	(A0 * !A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * B0 * !Y)	0.00002	0.00002	0.00002
	(A0 * !A2 * B0 * !Y)	0.00022	0.00022	0.00022
	(A0 * !A2 * !B0 * Y)	-0.00020	-0.00020	-0.00020
	(A0 * !A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B0 * Y)	0.00002	0.00002	0.00002
	(A0 * !A2 * !B0 * Y)	0.00023	0.00023	0.00023
	(!A0 * A2 * B0 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * A2 * B0 * !Y)	0.00022	0.00022	0.00022
	(!A0 * A2 * !B0 * Y)	-0.00020	-0.00020	-0.00020
	(!A0 * A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * !B0 * Y)	0.00006	0.00006	0.00006
	(!A0 * A2 * !B0 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A2 * B0 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * B0 * !Y)	0.00007	0.00007	0.00007
	(!A0 * !A2 * B0 * !Y)	0.00007	0.00007	0.00007
	(!A0 * !A2 * !B0 * Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * !B0 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A2 * !B0 * Y)	0.00007	0.00007	0.00007

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X1P4H7H	(A0 * A2 * B0 * !Y)	0.00014	0.00015	0.00015
	(A0 * A2 * B0 * !Y)	0.00003	0.00003	0.00004
	(A0 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A2 * B0 * !Y)	-0.00026	-0.00026	-0.00026
	(A0 * !A2 * B0 * !Y)	0.00020	0.00020	0.00020
	(A0 * !A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A2 * B0 * !Y)	-0.00022	-0.00021	-0.00020
	(A0 * !A2 * !B0 * Y)	0.00020	0.00020	0.00021
	(A0 * !A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A2 * !B0 * Y)	-0.00023	-0.00021	-0.00019
	(!A0 * A2 * B0 * !Y)	0.00020	0.00020	0.00020
	(!A0 * A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A2 * B0 * !Y)	-0.00022	-0.00021	-0.00020
	(!A0 * A2 * !B0 * Y)	0.00020	0.00020	0.00020
	(!A0 * A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * !B0 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * A2 * !B0 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A2 * B0 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A2 * B0 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A2 * B0 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A2 * !B0 * Y)	0.00020	0.00020	0.00020
	(!A0 * !A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A2 * !B0 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A2 * !B0 * Y)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X1P4H7H	(A0 * A1 * B0 * !Y)	-0.00015	-0.00013	-0.00010
	(A0 * A1 * B0 * !Y)	-0.00004	-0.00003	-0.00003
	(A0 * A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * !Y)	0.00028	0.00028	0.00028
	(!A1 * B0 * !Y)	-0.00020	-0.00020	-0.00020
	(!A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * !Y)	0.00024	0.00024	0.00024
	(!A1 * !B0 * Y)	-0.00030	-0.00030	-0.00030
	(!A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * Y)	0.00004	0.00004	0.00004
	(!A1 * !B0 * Y)	0.00005	0.00006	0.00006
	(!A0 * A1 * B0 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * !Y)	0.00002	0.00002	0.00003
	(!A0 * A1 * B0 * !Y)	0.00023	0.00023	0.00023
	(!A0 * A1 * !B0 * Y)	-0.00030	-0.00030	-0.00030
	(!A0 * A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * Y)	0.00003	0.00004	0.00004
	(!A0 * A1 * !B0 * Y)	0.00005	0.00006	0.00006

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X1P4H7H	(A0 * A1 * B0 * !Y)	0.00015	0.00015	0.00015
	(A0 * A1 * B0 * !Y)	0.00003	0.00003	0.00004
	(A0 * A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B0 * !Y)	-0.00028	-0.00028	-0.00028
	(!A1 * B0 * !Y)	0.00020	0.00020	0.00020
	(!A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * !Y)	-0.00024	-0.00023	-0.00022
	(!A1 * !B0 * Y)	0.00030	0.00030	0.00030
	(!A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * !B0 * Y)	-0.00006	-0.00006	-0.00005
	(!A0 * A1 * B0 * !Y)	0.00020	0.00020	0.00020
	(!A0 * A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * A1 * B0 * !Y)	-0.00023	-0.00022	-0.00019
	(!A0 * A1 * !B0 * Y)	0.00030	0.00030	0.00030
	(!A0 * A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * Y)	-0.00004	-0.00003	-0.00003
	(!A0 * A1 * !B0 * Y)	-0.00006	-0.00006	-0.00005

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X1P4H7H	(A0 * A1 * A2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * A2 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * !Y)	0.00041	0.00041	0.00041

Passive power(pJ) for B0 falling (conditional):

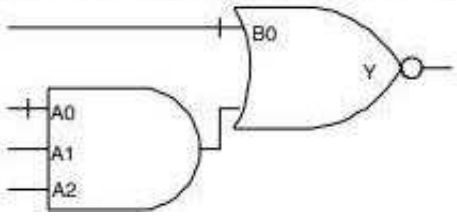
Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X1P4H7H	(A0 * A1 * A2 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * A2 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * !Y)	-0.00041	-0.00041	-0.00040

AOI31X2H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI31 cell provides the logical inverted OR of one AND group and an additional input.
The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	A2	B0	Y
0	x	x	0	1
x	x	x	1	0
1	0	x	0	1
1	1	0	0	1
1	1	1	x	0

Footprint

Cell Name	Area
AOI31X2H7H	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	A2	B0	Y
AOI31X2H7H	0.00102	0.00104	0.00119	0.00125	0.02693

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI31X2H7H	0.00000	0.02444	0.05441

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI31X2H7H	A0->Y (FR)	0.05349	0.23733	0.75823
	A1->Y (FR)	0.04960	0.23141	0.75200
	A2->Y (FR)	0.04489	0.22437	0.74540
	B0->Y (FR)	0.04529	0.22275	0.74066

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI31X2H7H	A0->Y (RF)	0.05159	0.22248	0.70297
	A1->Y (RF)	0.04923	0.22407	0.72839
	A2->Y (RF)	0.04477	0.21355	0.71315
	B0->Y (RF)	0.01566	0.11095	0.45832

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI31X2H7H	A0	0.00187	0.00190	0.00192
	A0	-0.00021	-0.00021	-0.00020
	A0	0.00022	0.00023	0.00023
	A0	-0.00016	-0.00014	-0.00012
	A1	0.00169	0.00172	0.00175
	A1	-0.00021	-0.00021	-0.00020
	A1	0.00016	0.00016	0.00016
	A1	-0.00011	-0.00008	-0.00006
	A2	0.00149	0.00155	0.00159
	A2	-0.00021	-0.00020	-0.00020
	A2	0.00006	0.00009	0.00009
	A2	-0.00012	-0.00006	-0.00002
	B0	0.00128	0.00138	0.00144
	B0	-0.00005	-0.00004	0.00000
	B0	0.00022	0.00022	0.00023
	B0	-0.00018	-0.00014	-0.00009

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI31X2H7H	A0	-0.00016	-0.00013	-0.00011
	A0	0.00020	0.00021	0.00021
	A0	-0.00023	-0.00023	-0.00022
	A0	0.00185	0.00189	0.00192
	A1	-0.00016	-0.00013	-0.00011
	A1	0.00020	0.00021	0.00021
	A1	-0.00016	-0.00016	-0.00016
	A1	0.00155	0.00160	0.00163
	A2	-0.00019	-0.00014	-0.00011
	A2	0.00020	0.00020	0.00021
	A2	-0.00009	-0.00009	-0.00006
	A2	0.00127	0.00135	0.00139
	B0	-0.00024	-0.00014	0.00001
	B0	0.00000	0.00005	0.00011
	B0	-0.00009	-0.00009	-0.00008
	B0	0.00141	0.00147	0.00152

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X2H7H	(A1 * A2 * B0 * !Y)	-0.00017	-0.00015	-0.00012
	(A1 * A2 * B0 * !Y)	-0.00004	-0.00004	-0.00004
	(A1 * A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * A2 * B0 * !Y)	0.00033	0.00033	0.00033
	(A1 * !A2 * B0 * !Y)	-0.00023	-0.00023	-0.00023
	(A1 * !A2 * B0 * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * !A2 * B0 * !Y)	0.00002	0.00003	0.00002
	(A1 * !A2 * B0 * !Y)	0.00028	0.00028	0.00028
	(A1 * !A2 * !B0 * Y)	-0.00023	-0.00023	-0.00023
	(A1 * !A2 * !B0 * Y)	-0.00002	-0.00001	-0.00001
	(A1 * !A2 * !B0 * Y)	0.00002	0.00002	0.00002
	(A1 * !A2 * !B0 * Y)	0.00028	0.00028	0.00028
	(!A1 * B0 * !Y)	-0.00023	-0.00023	-0.00023
	(!A1 * B0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * B0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * !Y)	0.00029	0.00029	0.00029
	(!A1 * A2 * !B0 * Y)	-0.00023	-0.00023	-0.00023
	(!A1 * A2 * !B0 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * A2 * !B0 * Y)	0.00002	0.00002	0.00002
	(!A1 * A2 * !B0 * Y)	0.00029	0.00029	0.00029
	(!A1 * !A2 * !B0 * Y)	-0.00023	-0.00023	-0.00023
	(!A1 * !A2 * !B0 * Y)	-0.00002	-0.00001	-0.00001
	(!A1 * !A2 * !B0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !A2 * !B0 * Y)	0.00028	0.00029	0.00029

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X2H7H	(A1 * A2 * B0 * !Y)	0.00017	0.00017	0.00017
	(A1 * A2 * B0 * !Y)	0.00004	0.00004	0.00004
	(A1 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B0 * !Y)	-0.00033	-0.00033	-0.00033
	(A1 * !A2 * B0 * !Y)	0.00023	0.00023	0.00023
	(A1 * !A2 * B0 * !Y)	0.00001	0.00002	0.00002
	(A1 * !A2 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * B0 * !Y)	-0.00028	-0.00026	-0.00024
	(A1 * !A2 * !B0 * Y)	0.00023	0.00023	0.00023
	(A1 * !A2 * !B0 * Y)	0.00001	0.00002	0.00002
	(A1 * !A2 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * !B0 * Y)	-0.00028	-0.00026	-0.00024
	(!A1 * B0 * !Y)	0.00023	0.00023	0.00023
	(!A1 * B0 * !Y)	0.00001	0.00002	0.00002
	(!A1 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * !Y)	-0.00029	-0.00028	-0.00026
	(!A1 * A2 * !B0 * Y)	0.00023	0.00023	0.00023
	(!A1 * A2 * !B0 * Y)	0.00001	0.00002	0.00002
	(!A1 * A2 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * !B0 * Y)	-0.00029	-0.00028	-0.00026
	(!A1 * !A2 * !B0 * Y)	0.00023	0.00023	0.00023
	(!A1 * !A2 * !B0 * Y)	0.00001	0.00002	0.00002
	(!A1 * !A2 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !A2 * !B0 * Y)	-0.00029	-0.00027	-0.00025

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X2H7H	(A0 * A2 * B0 * !Y)	-0.00017	-0.00015	-0.00012
	(A0 * A2 * B0 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A2 * B0 * !Y)	0.00029	0.00029	0.00029
	(A0 * !A2 * B0 * !Y)	-0.00023	-0.00023	-0.00023
	(A0 * !A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * B0 * !Y)	0.00002	0.00002	0.00003
	(A0 * !A2 * B0 * !Y)	0.00024	0.00024	0.00024
	(A0 * !A2 * !B0 * Y)	-0.00023	-0.00023	-0.00023
	(A0 * !A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B0 * Y)	0.00002	0.00002	0.00002
	(A0 * !A2 * !B0 * Y)	0.00024	0.00025	0.00025
	(!A0 * A2 * B0 * !Y)	-0.00023	-0.00023	-0.00023
	(!A0 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B0 * !Y)	0.00002	0.00002	0.00003
	(!A0 * A2 * B0 * !Y)	0.00024	0.00024	0.00024
	(!A0 * A2 * !B0 * Y)	-0.00023	-0.00023	-0.00023
	(!A0 * A2 * !B0 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * A2 * !B0 * Y)	0.00007	0.00007	0.00007
	(!A0 * A2 * !B0 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A2 * B0 * !Y)	-0.00023	-0.00023	-0.00023
	(!A0 * !A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * B0 * !Y)	0.00008	0.00008	0.00008
	(!A0 * !A2 * B0 * !Y)	0.00007	0.00007	0.00007
	(!A0 * !A2 * !B0 * Y)	-0.00023	-0.00023	-0.00023
	(!A0 * !A2 * !B0 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !A2 * !B0 * Y)	0.00008	0.00008	0.00008
	(!A0 * !A2 * !B0 * Y)	0.00006	0.00007	0.00007

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X2H7H	(A0 * A2 * B0 * !Y)	0.00017	0.00017	0.00017
	(A0 * A2 * B0 * !Y)	0.00004	0.00004	0.00004
	(A0 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A2 * B0 * !Y)	-0.00029	-0.00029	-0.00029
	(A0 * !A2 * B0 * !Y)	0.00023	0.00023	0.00023
	(A0 * !A2 * B0 * !Y)	0.00001	0.00002	0.00002
	(A0 * !A2 * B0 * !Y)	-0.00003	-0.00002	-0.00002
	(A0 * !A2 * B0 * !Y)	-0.00024	-0.00023	-0.00021
	(A0 * !A2 * !B0 * Y)	0.00023	0.00024	0.00025
	(A0 * !A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A2 * !B0 * Y)	-0.00024	-0.00023	-0.00021
	(!A0 * A2 * B0 * !Y)	0.00023	0.00023	0.00023
	(!A0 * A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * B0 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * A2 * B0 * !Y)	-0.00024	-0.00023	-0.00021
	(!A0 * A2 * !B0 * Y)	0.00023	0.00023	0.00023
	(!A0 * A2 * !B0 * Y)	0.00001	0.00002	0.00002
	(!A0 * A2 * !B0 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * A2 * !B0 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A2 * B0 * !Y)	0.00023	0.00023	0.00023
	(!A0 * !A2 * B0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A2 * B0 * !Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A2 * B0 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A2 * !B0 * Y)	0.00023	0.00023	0.00024
	(!A0 * !A2 * !B0 * Y)	0.00001	0.00002	0.00002
	(!A0 * !A2 * !B0 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A2 * !B0 * Y)	-0.00007	-0.00007	-0.00006

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X2H7H	(A0 * A1 * B0 * !Y)	-0.00017	-0.00015	-0.00012
	(A0 * A1 * B0 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * !Y)	0.00031	0.00031	0.00031
	(!A1 * B0 * !Y)	-0.00024	-0.00024	-0.00024
	(!A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * !Y)	0.00026	0.00026	0.00026
	(!A1 * !B0 * Y)	-0.00036	-0.00036	-0.00035
	(!A1 * !B0 * Y)	-0.00002	-0.00001	-0.00001
	(!A1 * !B0 * Y)	0.00004	0.00004	0.00004
	(!A1 * !B0 * Y)	0.00005	0.00005	0.00005
	(!A0 * A1 * B0 * !Y)	-0.00024	-0.00024	-0.00024
	(!A0 * A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * A1 * B0 * !Y)	0.00025	0.00026	0.00026
	(!A0 * A1 * !B0 * Y)	-0.00036	-0.00036	-0.00035
	(!A0 * A1 * !B0 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * A1 * !B0 * Y)	0.00004	0.00004	0.00004
	(!A0 * A1 * !B0 * Y)	0.00005	0.00005	0.00005

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X2H7H	(A0 * A1 * B0 * !Y)	0.00017	0.00017	0.00017
	(A0 * A1 * B0 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B0 * !Y)	-0.00031	-0.00031	-0.00031
	(!A1 * B0 * !Y)	0.00024	0.00024	0.00024
	(!A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * !Y)	-0.00026	-0.00025	-0.00023
	(!A1 * !B0 * Y)	0.00035	0.00036	0.00036
	(!A1 * !B0 * Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * !B0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * A1 * B0 * !Y)	0.00024	0.00024	0.00024
	(!A0 * A1 * B0 * !Y)	0.00001	0.00002	0.00001
	(!A0 * A1 * B0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * A1 * B0 * !Y)	-0.00026	-0.00024	-0.00021
	(!A0 * A1 * !B0 * Y)	0.00035	0.00036	0.00036
	(!A0 * A1 * !B0 * Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * !B0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A1 * !B0 * Y)	-0.00005	-0.00005	-0.00005

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X2H7H	(A0 * A1 * A2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * A2 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * !Y)	0.00044	0.00045	0.00045

Passive power(pJ) for B0 falling (conditional):

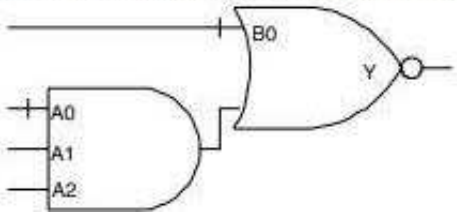
Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X2H7H	(A0 * A1 * A2 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * A2 * !Y)	0.00005	0.00006	0.00006
	(A0 * A1 * A2 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * !Y)	-0.00045	-0.00044	-0.00044

AOI31X3H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI31 cell provides the logical inverted OR of one AND group and an additional input.
The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	A2	B0	Y
0	x	x	0	1
x	x	x	1	0
1	0	x	0	1
1	1	0	0	1
1	1	1	x	0

Footprint

Cell Name	Area
AOI31X3H7H	3.64000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	A2	B0	Y
AOI31X3H7H	0.00178	0.00179	0.00201	0.00204	0.04264

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI31X3H7H	0.00000	0.03033	0.05566

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI31X3H7H	A0->Y (FR)	0.05680	0.24069	0.75919
	A1->Y (FR)	0.05172	0.23305	0.75146
	A2->Y (FR)	0.04521	0.22419	0.74334
	B0->Y (FR)	0.04525	0.22287	0.73947

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI31X3H7H	A0->Y (RF)	0.05455	0.22816	0.70922
	A1->Y (RF)	0.05165	0.22861	0.73679
	A2->Y (RF)	0.04487	0.21584	0.71921
	B0->Y (RF)	0.01510	0.10914	0.45483

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI31X3H7H	A0	0.00339	0.00345	0.00350
	A0	-0.00031	-0.00031	-0.00031
	A0	0.00034	0.00034	0.00034
	A0	-0.00013	-0.00008	-0.00005
	A1	0.00301	0.00308	0.00313
	A1	-0.00031	-0.00031	-0.00031
	A1	0.00022	0.00024	0.00024
	A1	-0.00011	-0.00004	0.00000
	A2	0.00260	0.00270	0.00277
	A2	-0.00034	-0.00031	-0.00030
	A2	0.00013	0.00014	0.00016
	A2	-0.00016	-0.00006	0.00001
	B0	0.00231	0.00245	0.00254
	B0	-0.00007	-0.00006	-0.00005
	B0	0.00034	0.00034	0.00034
	B0	-0.00026	-0.00017	-0.00009

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI31X3H7H	A0	-0.00026	-0.00020	-0.00017
	A0	0.00031	0.00031	0.00031
	A0	-0.00034	-0.00034	-0.00034
	A0	0.00327	0.00335	0.00339
	A1	-0.00026	-0.00021	-0.00017
	A1	0.00031	0.00031	0.00031
	A1	-0.00024	-0.00024	-0.00022
	A1	0.00275	0.00282	0.00287
	A2	-0.00030	-0.00023	-0.00017
	A2	0.00030	0.00031	0.00034
	A2	-0.00013	-0.00013	-0.00013
	A2	0.00221	0.00234	0.00241
	B0	-0.00030	-0.00020	-0.00013
	B0	0.00005	0.00006	0.00008
	B0	-0.00014	-0.00013	-0.00012
	B0	0.00252	0.00263	0.00270

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X3H7H	(A1 * A2 * B0 * !Y)	-0.00027	-0.00023	-0.00018
	(A1 * A2 * B0 * !Y)	-0.00006	-0.00006	-0.00006
	(A1 * A2 * B0 * !Y)	0.00000	0.00001	0.00002
	(A1 * A2 * B0 * !Y)	0.00061	0.00061	0.00062
	(A1 * !A2 * B0 * !Y)	-0.00037	-0.00037	-0.00037
	(A1 * !A2 * B0 * !Y)	-0.00003	-0.00002	-0.00002
	(A1 * !A2 * B0 * !Y)	0.00004	0.00004	0.00004
	(A1 * !A2 * B0 * !Y)	0.00049	0.00049	0.00049
	(A1 * !A2 * !B0 * Y)	-0.00038	-0.00038	-0.00037
	(A1 * !A2 * !B0 * Y)	-0.00003	-0.00002	-0.00002
	(A1 * !A2 * !B0 * Y)	0.00004	0.00004	0.00004
	(A1 * !A2 * !B0 * Y)	0.00048	0.00049	0.00049
	(!A1 * B0 * !Y)	-0.00037	-0.00037	-0.00037
	(!A1 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * !Y)	0.00003	0.00004	0.00004
	(!A1 * B0 * !Y)	0.00051	0.00051	0.00051
	(!A1 * A2 * !B0 * Y)	-0.00038	-0.00037	-0.00037
	(!A1 * A2 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * !B0 * Y)	0.00004	0.00004	0.00004
	(!A1 * A2 * !B0 * Y)	0.00050	0.00051	0.00051
	(!A1 * !A2 * !B0 * Y)	-0.00037	-0.00037	-0.00037
	(!A1 * !A2 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !A2 * !B0 * Y)	0.00004	0.00004	0.00004
	(!A1 * !A2 * !B0 * Y)	0.00049	0.00050	0.00050

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X3H7H	(A1 * A2 * B0 * !Y)	0.00026	0.00027	0.00027
	(A1 * A2 * B0 * !Y)	0.00006	0.00006	0.00006
	(A1 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * A2 * B0 * !Y)	-0.00061	-0.00061	-0.00060
	(A1 * !A2 * B0 * !Y)	0.00037	0.00037	0.00037
	(A1 * !A2 * B0 * !Y)	0.00002	0.00002	0.00003
	(A1 * !A2 * B0 * !Y)	-0.00004	-0.00004	-0.00004
	(A1 * !A2 * B0 * !Y)	-0.00049	-0.00046	-0.00042
	(A1 * !A2 * !B0 * Y)	0.00038	0.00038	0.00038
	(A1 * !A2 * !B0 * Y)	0.00002	0.00002	0.00003
	(A1 * !A2 * !B0 * Y)	-0.00004	-0.00004	-0.00004
	(A1 * !A2 * !B0 * Y)	-0.00049	-0.00046	-0.00041
	(!A1 * B0 * !Y)	0.00037	0.00037	0.00037
	(!A1 * B0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * !Y)	-0.00004	-0.00004	-0.00003
	(!A1 * B0 * !Y)	-0.00051	-0.00049	-0.00045
	(!A1 * A2 * !B0 * Y)	0.00037	0.00038	0.00038
	(!A1 * A2 * !B0 * Y)	0.00002	0.00002	0.00003
	(!A1 * A2 * !B0 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * A2 * !B0 * Y)	-0.00050	-0.00047	-0.00043
	(!A1 * !A2 * !B0 * Y)	0.00037	0.00037	0.00038
	(!A1 * !A2 * !B0 * Y)	0.00002	0.00002	0.00003
	(!A1 * !A2 * !B0 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * !A2 * !B0 * Y)	-0.00050	-0.00047	-0.00043

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X3H7H	(A0 * A2 * B0 * !Y)	-0.00027	-0.00023	-0.00018
	(A0 * A2 * B0 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A2 * B0 * !Y)	0.00059	0.00060	0.00060
	(A0 * !A2 * B0 * !Y)	-0.00038	-0.00038	-0.00037
	(A0 * !A2 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A2 * B0 * !Y)	0.00002	0.00003	0.00004
	(A0 * !A2 * B0 * !Y)	0.00050	0.00050	0.00051
	(A0 * !A2 * !B0 * Y)	-0.00039	-0.00038	-0.00038
	(A0 * !A2 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A2 * !B0 * Y)	0.00003	0.00003	0.00003
	(A0 * !A2 * !B0 * Y)	0.00050	0.00050	0.00051
	(!A0 * A2 * B0 * !Y)	-0.00038	-0.00038	-0.00037
	(!A0 * A2 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A2 * B0 * !Y)	0.00003	0.00004	0.00004
	(!A0 * A2 * B0 * !Y)	0.00048	0.00049	0.00049
	(!A0 * A2 * !B0 * Y)	-0.00040	-0.00040	-0.00040
	(!A0 * A2 * !B0 * Y)	-0.00003	-0.00002	-0.00002
	(!A0 * A2 * !B0 * Y)	0.00010	0.00010	0.00011
	(!A0 * A2 * !B0 * Y)	0.00015	0.00015	0.00015
	(!A0 * !A2 * B0 * !Y)	-0.00038	-0.00038	-0.00037
	(!A0 * !A2 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A2 * B0 * !Y)	0.00012	0.00012	0.00012
	(!A0 * !A2 * B0 * !Y)	0.00017	0.00017	0.00017
	(!A0 * !A2 * !B0 * Y)	-0.00040	-0.00040	-0.00040
	(!A0 * !A2 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A2 * !B0 * Y)	0.00012	0.00012	0.00012
	(!A0 * !A2 * !B0 * Y)	0.00014	0.00015	0.00015

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X3H7H	(A0 * A2 * B0 * !Y)	0.00026	0.00027	0.00027
	(A0 * A2 * B0 * !Y)	0.00006	0.00006	0.00006
	(A0 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A2 * B0 * !Y)	-0.00059	-0.00059	-0.00059
	(A0 * !A2 * B0 * !Y)	0.00037	0.00038	0.00038
	(A0 * !A2 * B0 * !Y)	0.00002	0.00002	0.00003
	(A0 * !A2 * B0 * !Y)	-0.00004	-0.00003	-0.00002
	(A0 * !A2 * B0 * !Y)	-0.00050	-0.00048	-0.00044
	(A0 * !A2 * !B0 * Y)	0.00039	0.00039	0.00041
	(A0 * !A2 * !B0 * Y)	0.00002	0.00002	0.00002
	(A0 * !A2 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * !A2 * !B0 * Y)	-0.00051	-0.00047	-0.00042
	(!A0 * A2 * B0 * !Y)	0.00038	0.00038	0.00038
	(!A0 * A2 * B0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * A2 * B0 * !Y)	-0.00004	-0.00004	-0.00003
	(!A0 * A2 * B0 * !Y)	-0.00049	-0.00046	-0.00043
	(!A0 * A2 * !B0 * Y)	0.00041	0.00041	0.00041
	(!A0 * A2 * !B0 * Y)	0.00002	0.00003	0.00003
	(!A0 * A2 * !B0 * Y)	-0.00010	-0.00010	-0.00010
	(!A0 * A2 * !B0 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !A2 * B0 * !Y)	0.00037	0.00038	0.00038
	(!A0 * !A2 * B0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !A2 * B0 * !Y)	-0.00012	-0.00012	-0.00012
	(!A0 * !A2 * B0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !A2 * !B0 * Y)	0.00040	0.00041	0.00041
	(!A0 * !A2 * !B0 * Y)	0.00002	0.00002	0.00003
	(!A0 * !A2 * !B0 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * !A2 * !B0 * Y)	-0.00015	-0.00015	-0.00014

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X3H7H	(A0 * A1 * B0 * !Y)	-0.00028	-0.00024	-0.00018
	(A0 * A1 * B0 * !Y)	-0.00007	-0.00006	-0.00006
	(A0 * A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * !Y)	0.00062	0.00063	0.00063
	(!A1 * B0 * !Y)	-0.00039	-0.00039	-0.00039
	(!A1 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * !Y)	0.00003	0.00004	0.00004
	(!A1 * B0 * !Y)	0.00052	0.00053	0.00053
	(!A1 * !B0 * Y)	-0.00062	-0.00062	-0.00061
	(!A1 * !B0 * Y)	-0.00003	-0.00002	-0.00002
	(!A1 * !B0 * Y)	0.00006	0.00006	0.00006
	(!A1 * !B0 * Y)	0.00015	0.00015	0.00016
	(!A0 * A1 * B0 * !Y)	-0.00039	-0.00039	-0.00039
	(!A0 * A1 * B0 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * A1 * B0 * !Y)	0.00003	0.00004	0.00004
	(!A0 * A1 * B0 * !Y)	0.00051	0.00052	0.00052
	(!A0 * A1 * !B0 * Y)	-0.00062	-0.00062	-0.00061
	(!A0 * A1 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B0 * Y)	0.00006	0.00006	0.00006
	(!A0 * A1 * !B0 * Y)	0.00014	0.00014	0.00014

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X3H7H	(A0 * A1 * B0 * !Y)	0.00027	0.00028	0.00028
	(A0 * A1 * B0 * !Y)	0.00006	0.00006	0.00007
	(A0 * A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B0 * !Y)	-0.00062	-0.00062	-0.00062
	(!A1 * B0 * !Y)	0.00039	0.00039	0.00039
	(!A1 * B0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * !Y)	-0.00004	-0.00003	-0.00003
	(!A1 * B0 * !Y)	-0.00053	-0.00051	-0.00047
	(!A1 * !B0 * Y)	0.00061	0.00062	0.00062
	(!A1 * !B0 * Y)	0.00002	0.00003	0.00003
	(!A1 * !B0 * Y)	-0.00006	-0.00006	-0.00005
	(!A1 * !B0 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * A1 * B0 * !Y)	0.00039	0.00039	0.00039
	(!A0 * A1 * B0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * A1 * B0 * !Y)	-0.00004	-0.00003	-0.00003
	(!A0 * A1 * B0 * !Y)	-0.00052	-0.00048	-0.00043
	(!A0 * A1 * !B0 * Y)	0.00061	0.00062	0.00063
	(!A0 * A1 * !B0 * Y)	0.00002	0.00003	0.00003
	(!A0 * A1 * !B0 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * A1 * !B0 * Y)	-0.00014	-0.00014	-0.00014

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X3H7H	(A0 * A1 * A2 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !Y)	-0.00008	-0.00008	-0.00008
	(A0 * A1 * A2 * !Y)	0.00001	0.00001	0.00002
	(A0 * A1 * A2 * !Y)	0.00077	0.00077	0.00077

Passive power(pJ) for B0 falling (conditional):

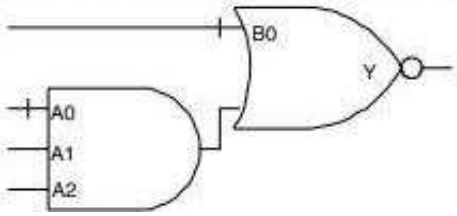
Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X3H7H	(A0 * A1 * A2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !Y)	0.00008	0.00008	0.00008
	(A0 * A1 * A2 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * !Y)	-0.00077	-0.00076	-0.00075

AOI31X4H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI31 cell provides the logical inverted OR of one AND group and an additional input.
The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	A2	B0	Y
0	x	x	0	1
x	x	x	1	0
1	0	x	0	1
1	1	0	0	1
1	1	1	x	0

Footprint

Cell Name	Area
AOI31X4H7H	4.20000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	A2	B0	Y
AOI31X4H7H	0.00206	0.00208	0.00231	0.00234	0.05358

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI31X4H7H	0.00000	0.04889	0.10883

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI31X4H7H	A0->Y (FR)	0.05198	0.23722	0.76134
	A1->Y (FR)	0.04735	0.23002	0.75345
	A2->Y (FR)	0.04104	0.22141	0.74643
	B0->Y (FR)	0.04078	0.21968	0.74160

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI31X4H7H	A0->Y (RF)	0.04998	0.22402	0.71067
	A1->Y (RF)	0.04715	0.22412	0.73498
	A2->Y (RF)	0.04047	0.21125	0.71592
	B0->Y (RF)	0.01384	0.10771	0.45736

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI31X4H7H	A0	0.00396	0.00403	0.00408
	A0	-0.00041	-0.00041	-0.00041
	A0	0.00044	0.00045	0.00045
	A0	-0.00024	-0.00018	-0.00014
	A1	0.00352	0.00359	0.00365
	A1	-0.00041	-0.00041	-0.00041
	A1	0.00032	0.00032	0.00032
	A1	-0.00021	-0.00013	-0.00008
	A2	0.00302	0.00312	0.00321
	A2	-0.00041	-0.00041	-0.00040
	A2	0.00014	0.00017	0.00020
	A2	-0.00026	-0.00015	-0.00004
	B0	0.00262	0.00281	0.00292
	B0	-0.00009	-0.00009	-0.00006
	B0	0.00044	0.00045	0.00045
	B0	-0.00034	-0.00025	-0.00015

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI31X4H7H	A0	-0.00033	-0.00026	-0.00022
	A0	0.00041	0.00041	0.00041
	A0	-0.00045	-0.00045	-0.00044
	A0	0.00387	0.00395	0.00400
	A1	-0.00033	-0.00026	-0.00022
	A1	0.00041	0.00041	0.00041
	A1	-0.00032	-0.00032	-0.00032
	A1	0.00324	0.00333	0.00339
	A2	-0.00037	-0.00028	-0.00022
	A2	0.00040	0.00041	0.00041
	A2	-0.00018	-0.00017	-0.00014
	A2	0.00258	0.00275	0.00284
	B0	-0.00038	-0.00026	-0.00018
	B0	0.00007	0.00009	0.00012
	B0	-0.00018	-0.00017	-0.00016
	B0	0.00290	0.00303	0.00312

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X4H7H	(A1 * A2 * B0 * !Y)	-0.00034	-0.00029	-0.00023
	(A1 * A2 * B0 * !Y)	-0.00008	-0.00008	-0.00007
	(A1 * A2 * B0 * !Y)	0.00001	0.00001	0.00002
	(A1 * A2 * B0 * !Y)	0.00067	0.00067	0.00068
	(A1 * !A2 * B0 * !Y)	-0.00046	-0.00046	-0.00046
	(A1 * !A2 * B0 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * !A2 * B0 * !Y)	0.00004	0.00005	0.00005
	(A1 * !A2 * B0 * !Y)	0.00054	0.00054	0.00055
	(A1 * !A2 * !B0 * Y)	-0.00047	-0.00047	-0.00046
	(A1 * !A2 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * !A2 * !B0 * Y)	0.00005	0.00005	0.00005
	(A1 * !A2 * !B0 * Y)	0.00053	0.00053	0.00054
	(!A1 * B0 * !Y)	-0.00046	-0.00046	-0.00046
	(!A1 * B0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1 * B0 * !Y)	0.00005	0.00005	0.00005
	(!A1 * B0 * !Y)	0.00056	0.00056	0.00056
	(!A1 * A2 * !B0 * Y)	-0.00047	-0.00047	-0.00047
	(!A1 * A2 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * A2 * !B0 * Y)	0.00004	0.00005	0.00005
	(!A1 * A2 * !B0 * Y)	0.00056	0.00056	0.00056
	(!A1 * !A2 * !B0 * Y)	-0.00047	-0.00047	-0.00046
	(!A1 * !A2 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !A2 * !B0 * Y)	0.00005	0.00005	0.00005
	(!A1 * !A2 * !B0 * Y)	0.00055	0.00055	0.00055

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X4H7H	(A1 * A2 * B0 * !Y)	0.00033	0.00034	0.00034
	(A1 * A2 * B0 * !Y)	0.00008	0.00008	0.00008
	(A1 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B0 * !Y)	-0.00067	-0.00067	-0.00066
	(A1 * !A2 * B0 * !Y)	0.00046	0.00046	0.00046
	(A1 * !A2 * B0 * !Y)	0.00003	0.00003	0.00003
	(A1 * !A2 * B0 * !Y)	-0.00005	-0.00005	-0.00004
	(A1 * !A2 * B0 * !Y)	-0.00054	-0.00051	-0.00045
	(A1 * !A2 * !B0 * Y)	0.00047	0.00047	0.00047
	(A1 * !A2 * !B0 * Y)	0.00003	0.00003	0.00003
	(A1 * !A2 * !B0 * Y)	-0.00005	-0.00005	-0.00005
	(A1 * !A2 * !B0 * Y)	-0.00054	-0.00050	-0.00045
	(!A1 * B0 * !Y)	0.00046	0.00046	0.00047
	(!A1 * B0 * !Y)	0.00003	0.00003	0.00003
	(!A1 * B0 * !Y)	-0.00005	-0.00005	-0.00005
	(!A1 * B0 * !Y)	-0.00056	-0.00053	-0.00050
	(!A1 * A2 * !B0 * Y)	0.00047	0.00047	0.00047
	(!A1 * A2 * !B0 * Y)	0.00003	0.00003	0.00003
	(!A1 * A2 * !B0 * Y)	-0.00005	-0.00005	-0.00004
	(!A1 * A2 * !B0 * Y)	-0.00056	-0.00052	-0.00048
	(!A1 * !A2 * !B0 * Y)	0.00047	0.00047	0.00047
	(!A1 * !A2 * !B0 * Y)	0.00003	0.00003	0.00003
	(!A1 * !A2 * !B0 * Y)	-0.00005	-0.00005	-0.00005
	(!A1 * !A2 * !B0 * Y)	-0.00055	-0.00052	-0.00047

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X4H7H	(A0 * A2 * B0 * !Y)	-0.00034	-0.00030	-0.00023
	(A0 * A2 * B0 * !Y)	-0.00008	-0.00008	-0.00008
	(A0 * A2 * B0 * !Y)	0.00001	0.00002	0.00002
	(A0 * A2 * B0 * !Y)	0.00065	0.00065	0.00066
	(A0 * !A2 * B0 * !Y)	-0.00048	-0.00047	-0.00047
	(A0 * !A2 * B0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * !A2 * B0 * !Y)	0.00004	0.00005	0.00006
	(A0 * !A2 * B0 * !Y)	0.00054	0.00055	0.00055
	(A0 * !A2 * !B0 * Y)	-0.00048	-0.00048	-0.00047
	(A0 * !A2 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * !A2 * !B0 * Y)	0.00004	0.00004	0.00004
	(A0 * !A2 * !B0 * Y)	0.00055	0.00055	0.00056
	(!A0 * A2 * B0 * !Y)	-0.00048	-0.00047	-0.00047
	(!A0 * A2 * B0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A2 * B0 * !Y)	0.00005	0.00005	0.00005
	(!A0 * A2 * B0 * !Y)	0.00053	0.00054	0.00054
	(!A0 * A2 * !B0 * Y)	-0.00050	-0.00049	-0.00049
	(!A0 * A2 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A2 * !B0 * Y)	0.00013	0.00014	0.00014
	(!A0 * A2 * !B0 * Y)	0.00014	0.00014	0.00014
	(!A0 * !A2 * B0 * !Y)	-0.00047	-0.00047	-0.00047
	(!A0 * !A2 * B0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A2 * B0 * !Y)	0.00016	0.00016	0.00016
	(!A0 * !A2 * B0 * !Y)	0.00016	0.00016	0.00017
	(!A0 * !A2 * !B0 * Y)	-0.00050	-0.00049	-0.00049
	(!A0 * !A2 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A2 * !B0 * Y)	0.00015	0.00015	0.00016
	(!A0 * !A2 * !B0 * Y)	0.00014	0.00014	0.00014

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X4H7H	(A0 * A2 * B0 * !Y)	0.00034	0.00034	0.00034
	(A0 * A2 * B0 * !Y)	0.00008	0.00008	0.00008
	(A0 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A2 * B0 * !Y)	-0.00065	-0.00065	-0.00064
	(A0 * !A2 * B0 * !Y)	0.00047	0.00047	0.00048
	(A0 * !A2 * B0 * !Y)	0.00003	0.00003	0.00003
	(A0 * !A2 * B0 * !Y)	-0.00006	-0.00005	-0.00004
	(A0 * !A2 * B0 * !Y)	-0.00055	-0.00052	-0.00049
	(A0 * !A2 * !B0 * Y)	0.00048	0.00049	0.00051
	(A0 * !A2 * !B0 * Y)	0.00003	0.00003	0.00003
	(A0 * !A2 * !B0 * Y)	-0.00004	-0.00004	-0.00004
	(A0 * !A2 * !B0 * Y)	-0.00055	-0.00052	-0.00046
	(!A0 * A2 * B0 * !Y)	0.00047	0.00047	0.00048
	(!A0 * A2 * B0 * !Y)	0.00003	0.00003	0.00003
	(!A0 * A2 * B0 * !Y)	-0.00005	-0.00005	-0.00004
	(!A0 * A2 * B0 * !Y)	-0.00054	-0.00051	-0.00046
	(!A0 * A2 * !B0 * Y)	0.00050	0.00050	0.00050
	(!A0 * A2 * !B0 * Y)	0.00003	0.00003	0.00003
	(!A0 * A2 * !B0 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * A2 * !B0 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !A2 * B0 * !Y)	0.00047	0.00047	0.00048
	(!A0 * !A2 * B0 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !A2 * B0 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !A2 * B0 * !Y)	-0.00017	-0.00016	-0.00016
	(!A0 * !A2 * !B0 * Y)	0.00050	0.00050	0.00051
	(!A0 * !A2 * !B0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A2 * !B0 * Y)	-0.00016	-0.00015	-0.00015
	(!A0 * !A2 * !B0 * Y)	-0.00014	-0.00014	-0.00014

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X4H7H	(A0 * A1 * B0 * !Y)	-0.00035	-0.00030	-0.00023
	(A0 * A1 * B0 * !Y)	-0.00008	-0.00008	-0.00008
	(A0 * A1 * B0 * !Y)	0.00001	0.00002	0.00002
	(A0 * A1 * B0 * !Y)	0.00068	0.00069	0.00069
	(!A1 * B0 * !Y)	-0.00048	-0.00048	-0.00048
	(!A1 * B0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1 * B0 * !Y)	0.00004	0.00005	0.00005
	(!A1 * B0 * !Y)	0.00057	0.00058	0.00059
	(!A1 * !B0 * Y)	-0.00073	-0.00072	-0.00071
	(!A1 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * Y)	0.00008	0.00008	0.00008
	(!A1 * !B0 * Y)	0.00015	0.00015	0.00016
	(!A0 * A1 * B0 * !Y)	-0.00049	-0.00048	-0.00048
	(!A0 * A1 * B0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * A1 * B0 * !Y)	0.00004	0.00005	0.00005
	(!A0 * A1 * B0 * !Y)	0.00056	0.00056	0.00056
	(!A0 * A1 * !B0 * Y)	-0.00073	-0.00072	-0.00072
	(!A0 * A1 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * !B0 * Y)	0.00008	0.00008	0.00009
	(!A0 * A1 * !B0 * Y)	0.00014	0.00014	0.00015

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X4H7H	(A0 * A1 * B0 * !Y)	0.00034	0.00034	0.00035
	(A0 * A1 * B0 * !Y)	0.00008	0.00008	0.00008
	(A0 * A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B0 * !Y)	-0.00069	-0.00068	-0.00068
	(!A1 * B0 * !Y)	0.00048	0.00048	0.00049
	(!A1 * B0 * !Y)	0.00003	0.00003	0.00003
	(!A1 * B0 * !Y)	-0.00005	-0.00005	-0.00004
	(!A1 * B0 * !Y)	-0.00058	-0.00056	-0.00052
	(!A1 * !B0 * Y)	0.00072	0.00072	0.00073
	(!A1 * !B0 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * Y)	-0.00008	-0.00008	-0.00008
	(!A1 * !B0 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * A1 * B0 * !Y)	0.00048	0.00048	0.00049
	(!A0 * A1 * B0 * !Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * B0 * !Y)	-0.00005	-0.00005	-0.00004
	(!A0 * A1 * B0 * !Y)	-0.00056	-0.00052	-0.00046
	(!A0 * A1 * !B0 * Y)	0.00072	0.00072	0.00073
	(!A0 * A1 * !B0 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * !B0 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * A1 * !B0 * Y)	-0.00014	-0.00014	-0.00014

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X4H7H	(A0 * A1 * A2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !Y)	-0.00010	-0.00010	-0.00010
	(A0 * A1 * A2 * !Y)	0.00001	0.00002	0.00002
	(A0 * A1 * A2 * !Y)	0.00086	0.00086	0.00086

Passive power(pJ) for B0 falling (conditional):

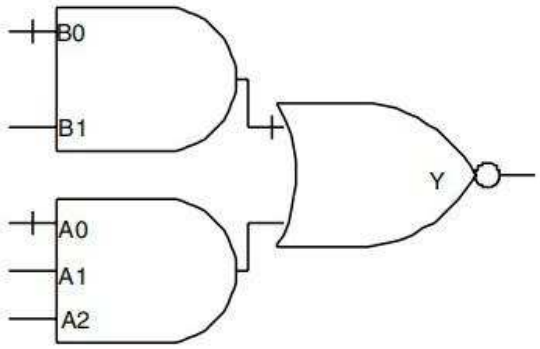
Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X4H7H	(A0 * A1 * A2 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * A2 * !Y)	0.00011	0.00011	0.00011
	(A0 * A1 * A2 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * !Y)	-0.00086	-0.00085	-0.00084

AOI32X0P5H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI32 cell provides the logical inverted OR of two AND groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT					OUTPUT
A0	A1	A2	B0	B1	Y
0	x	x	0	x	1
0	x	x	1	0	1
x	x	x	1	1	0
1	0	x	0	x	1
1	0	x	1	0	1
1	1	0	0	x	1
1	1	0	1	0	1
1	1	1	x	x	0

Footprint

Cell Name	Area
AOI32X0P5H7H	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	**A1**	**A2**	**B0**	**B1**	**Y**
AOI32X0P5H7H	0.00073	0.00073	0.00083	0.00079	0.00085	0.01475

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
AOI32X0P5H7H	0.00000	0.01068	0.01833

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI32X0P5H7H	A0->Y (FR)	0.08142	0.26200	0.76214
	A1->Y (FR)	0.07666	0.25575	0.75628
	A2->Y (FR)	0.07215	0.24965	0.75038
	B0->Y (FR)	0.06648	0.23998	0.73650
	B1->Y (FR)	0.06117	0.23325	0.73132

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI32X0P5H7H	A0->Y (RF)	0.07031	0.22897	0.66765
	A1->Y (RF)	0.06874	0.23372	0.70143
	A2->Y (RF)	0.06521	0.22714	0.69857
	B0->Y (RF)	0.03569	0.16319	0.55479
	B1->Y (RF)	0.03416	0.15960	0.56701

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI32X0P5H7H	A0	0.00154	0.00156	0.00157
	A0	-0.00015	-0.00015	-0.00015
	A0	0.00016	0.00016	0.00016
	A0	-0.00011	-0.00010	-0.00009
	A1	0.00143	0.00145	0.00147
	A1	-0.00015	-0.00015	-0.00015
	A1	0.00012	0.00012	0.00012
	A1	-0.00005	-0.00003	-0.00001
	A2	0.00131	0.00135	0.00138
	A2	-0.00016	-0.00016	-0.00015
	A2	0.00005	0.00008	0.00009
	A2	-0.00006	-0.00002	0.00004
	B0	0.00105	0.00110	0.00112
	B0	-0.00005	-0.00005	0.00000
	B0	0.00016	0.00016	0.00016
	B0	-0.00016	-0.00014	-0.00013
	B1	0.00094	0.00097	0.00101
	B1	-0.00005	-0.00005	-0.00004
	B1	0.00012	0.00012	0.00013
	B1	-0.00014	-0.00011	-0.00008

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI32X0P5H7H	A0	-0.00009	-0.00007	-0.00006
	A0	0.00016	0.00016	0.00016
	A0	-0.00012	-0.00012	-0.00012
	A0	0.00151	0.00157	0.00158
	A1	-0.00009	-0.00007	-0.00006
	A1	0.00016	0.00016	0.00016
	A1	-0.00009	-0.00009	-0.00008
	A1	0.00132	0.00136	0.00138
	A2	-0.00011	-0.00008	-0.00006
	A2	0.00015	0.00016	0.00016
	A2	-0.00009	-0.00008	-0.00005
	A2	0.00118	0.00122	0.00125
	B0	-0.00008	-0.00005	0.00002
	B0	0.00005	0.00005	0.00005
	B0	-0.00008	-0.00008	-0.00008
	B0	0.00124	0.00127	0.00129
	B1	-0.00007	-0.00003	-0.00001
	B1	0.00005	0.00005	0.00007
	B1	-0.00005	-0.00005	-0.00004
	B1	0.00107	0.00110	0.00112

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI32X0P5H7H	**(A1 * A2 * B0 * B1 * !Y)**	-0.00009	-0.00008	-0.00006
	(A1 * A2 * B0 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * A2 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A1 * A2 * B0 * B1 * !Y)	0.00028	0.00028	0.00028
	(A1 * !A2 * B0 * B1 * !Y)	-0.00013	-0.00013	-0.00013
	(A1 * !A2 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * B1 * !Y)	0.00023	0.00024	0.00024
	(A1 * !A2 * !B1 * Y)	-0.00013	-0.00013	-0.00013
	(A1 * !A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !B1 * Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * !B1 * Y)	0.00023	0.00024	0.00024
	(A1 * !A2 * !B0 * B1 * Y)	-0.00013	-0.00013	-0.00013
	(A1 * !A2 * !B0 * B1 * Y)	-0.00002	-0.00001	-0.00001
	(A1 * !A2 * !B0 * B1 * Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * !B0 * B1 * Y)	0.00023	0.00024	0.00024
	(!A1 * B0 * B1 * !Y)	-0.00013	-0.00013	-0.00013
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00002
	(!A1 * B0 * B1 * !Y)	0.00024	0.00024	0.00024
	(!A1 * A2 * !B1 * Y)	-0.00013	-0.00013	-0.00013
	(!A1 * A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B1 * Y)	0.00024	0.00024	0.00024
	(!A1 * A2 * !B0 * B1 * Y)	-0.00013	-0.00013	-0.00013
	(!A1 * A2 * !B0 * B1 * Y)	-0.00002	-0.00001	-0.00001
	(!A1 * A2 * !B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * B1 * Y)	0.00024	0.00024	0.00024
	(!A1 * !A2 * !B1 * Y)	-0.00013	-0.00013	-0.00013
	(!A1 * !A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B1 * Y)	0.00024	0.00024	0.00024
	(!A1 * !A2 * !B0 * B1 * Y)	-0.00013	-0.00013	-0.00013
	(!A1 * !A2 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !A2 * !B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B0 * B1 * Y)	0.00024	0.00024	0.00024

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI32X0P5H7H	**(A1 * A2 * B0 * B1 * !Y)**	0.00009	0.00009	0.00009
	(A1 * A2 * B0 * B1 * !Y)	0.00002	0.00002	0.00002
	(A1 * A2 * B0 * B1 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * A2 * B0 * B1 * !Y)	-0.00028	-0.00028	-0.00027
	(A1 * !A2 * B0 * B1 * !Y)	0.00013	0.00013	0.00013
	(A1 * !A2 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * B1 * !Y)	-0.00024	-0.00023	-0.00021
	(A1 * !A2 * !B1 * Y)	0.00013	0.00013	0.00013
	(A1 * !A2 * !B1 * Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !B1 * Y)	-0.00024	-0.00023	-0.00021
	(A1 * !A2 * !B0 * B1 * Y)	0.00013	0.00013	0.00013
	(A1 * !A2 * !B0 * B1 * Y)	0.00001	0.00001	0.00002
	(A1 * !A2 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !B0 * B1 * Y)	-0.00024	-0.00023	-0.00021
	(!A1 * B0 * B1 * !Y)	0.00013	0.00013	0.00013
	(!A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	-0.00002	-0.00001	-0.00001
	(!A1 * B0 * B1 * !Y)	-0.00024	-0.00023	-0.00023
	(!A1 * A2 * !B1 * Y)	0.00013	0.00013	0.00013
	(!A1 * A2 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B1 * Y)	-0.00024	-0.00023	-0.00022
	(!A1 * A2 * !B0 * B1 * Y)	0.00013	0.00013	0.00013
	(!A1 * A2 * !B0 * B1 * Y)	0.00001	0.00001	0.00002
	(!A1 * A2 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * B1 * Y)	-0.00024	-0.00023	-0.00022
	(!A1 * !A2 * !B1 * Y)	0.00013	0.00013	0.00013
	(!A1 * !A2 * !B1 * Y)	0.00001	0.00001	0.00002
	(!A1 * !A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B1 * Y)	-0.00024	-0.00023	-0.00022
	(!A1 * !A2 * !B0 * B1 * Y)	0.00013	0.00013	0.00013
	(!A1 * !A2 * !B0 * B1 * Y)	0.00000	0.00001	0.00001
	(!A1 * !A2 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B0 * B1 * Y)	-0.00024	-0.00023	-0.00023

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI32X0P5H7H	**(A0 * A2 * B0 * B1 * !Y)**	-0.00010	-0.00008	-0.00006
	(A0 * A2 * B0 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A2 * B0 * B1 * !Y)	0.00000	0.00000	0.00001
	(A0 * A2 * B0 * B1 * !Y)	0.00022	0.00022	0.00023
	(A0 * !A2 * B0 * B1 * !Y)	-0.00014	-0.00014	-0.00014
	(A0 * !A2 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * B0 * B1 * !Y)	0.00018	0.00018	0.00018
	(A0 * !A2 * !B1 * Y)	-0.00014	-0.00014	-0.00014
	(A0 * !A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B1 * Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B1 * Y)	0.00018	0.00018	0.00018
	(A0 * !A2 * !B0 * B1 * Y)	-0.00014	-0.00014	-0.00014
	(A0 * !A2 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B0 * B1 * Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B0 * B1 * Y)	0.00018	0.00018	0.00018
	(!A0 * A2 * B0 * B1 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * A2 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * B0 * B1 * !Y)	0.00018	0.00018	0.00018
	(!A0 * A2 * !B1 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * !B1 * Y)	0.00004	0.00004	0.00004
	(!A0 * A2 * !B1 * Y)	0.00006	0.00006	0.00006
	(!A0 * A2 * !B0 * B1 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * A2 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A2 * !B0 * B1 * Y)	0.00004	0.00004	0.00004
	(!A0 * A2 * !B0 * B1 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * B0 * B1 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !A2 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * B0 * B1 * !Y)	0.00005	0.00005	0.00005
	(!A0 * !A2 * B0 * B1 * !Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * !B1 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * !B1 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A2 * !B1 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * !B0 * B1 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !A2 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A2 * !B0 * B1 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A2 * !B0 * B1 * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI32X0P5H7H	**(A0 * A2 * B0 * B1 * !Y)**	0.00010	0.00010	0.00010
	(A0 * A2 * B0 * B1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A2 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B0 * B1 * !Y)	-0.00022	-0.00022	-0.00022
	(A0 * !A2 * B0 * B1 * !Y)	0.00014	0.00014	0.00014
	(A0 * !A2 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * B0 * B1 * !Y)	-0.00018	-0.00017	-0.00016
	(A0 * !A2 * !B1 * Y)	0.00014	0.00015	0.00016
	(A0 * !A2 * !B1 * Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B1 * Y)	-0.00018	-0.00017	-0.00016
	(A0 * !A2 * !B0 * B1 * Y)	0.00014	0.00014	0.00015
	(A0 * !A2 * !B0 * B1 * Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B0 * B1 * Y)	-0.00018	-0.00017	-0.00015
	(!A0 * A2 * B0 * B1 * !Y)	0.00014	0.00014	0.00014
	(!A0 * A2 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B0 * B1 * !Y)	-0.00018	-0.00017	-0.00016
	(!A0 * A2 * !B1 * Y)	0.00014	0.00014	0.00014
	(!A0 * A2 * !B1 * Y)	0.00001	0.00001	0.00002
	(!A0 * A2 * !B1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A2 * !B1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * A2 * !B0 * B1 * Y)	0.00014	0.00014	0.00014
	(!A0 * A2 * !B0 * B1 * Y)	0.00000	0.00001	0.00001
	(!A0 * A2 * !B0 * B1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A2 * !B0 * B1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * B0 * B1 * !Y)	0.00014	0.00014	0.00014
	(!A0 * !A2 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A2 * B0 * B1 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A2 * B0 * B1 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * !B1 * Y)	0.00014	0.00014	0.00014
	(!A0 * !A2 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A2 * !B1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A2 * !B1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * !B0 * B1 * Y)	0.00014	0.00014	0.00014
	(!A0 * !A2 * !B0 * B1 * Y)	0.00000	0.00001	0.00001
	(!A0 * !A2 * !B0 * B1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A2 * !B0 * B1 * Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X0P5H7H	(A0 * A1 * B0 * B1 * !Y)	-0.00010	-0.00008	-0.00006
	(A0 * A1 * B0 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * B1 * !Y)	0.00025	0.00025	0.00025
	(!A1 * B0 * B1 * !Y)	-0.00014	-0.00014	-0.00014
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	0.00021	0.00021	0.00021
	(!A1 * !B1 * Y)	-0.00024	-0.00023	-0.00023
	(!A1 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * Y)	0.00002	0.00003	0.00003
	(!A1 * !B1 * Y)	0.00005	0.00005	0.00005
	(!A1 * !B0 * B1 * Y)	-0.00024	-0.00023	-0.00023
	(!A1 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * Y)	0.00002	0.00003	0.00003
	(!A1 * !B0 * B1 * Y)	0.00005	0.00005	0.00005
	(!A0 * A1 * B0 * B1 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * B1 * !Y)	0.00020	0.00020	0.00021
	(!A0 * A1 * !B1 * Y)	-0.00024	-0.00023	-0.00023
	(!A0 * A1 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B1 * Y)	0.00005	0.00005	0.00005
	(!A0 * A1 * !B0 * B1 * Y)	-0.00024	-0.00023	-0.00023
	(!A0 * A1 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * B1 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B0 * B1 * Y)	0.00005	0.00005	0.00005

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X0P5H7H	(A0 * A1 * B0 * B1 * !Y)	0.00010	0.00010	0.00010
	(A0 * A1 * B0 * B1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * B1 * !Y)	-0.00025	-0.00025	-0.00024
	(!A1 * B0 * B1 * !Y)	0.00014	0.00014	0.00014
	(!A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !Y)	-0.00021	-0.00020	-0.00019
	(!A1 * !B1 * Y)	0.00023	0.00023	0.00024
	(!A1 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B1 * Y)	-0.00005	-0.00005	-0.00005
	(!A1 * !B0 * B1 * Y)	0.00023	0.00023	0.00024
	(!A1 * !B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * B1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * A1 * B0 * B1 * !Y)	0.00014	0.00014	0.00014
	(!A0 * A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * B1 * !Y)	-0.00021	-0.00019	-0.00017
	(!A0 * A1 * !B1 * Y)	0.00023	0.00023	0.00024
	(!A0 * A1 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * A1 * !B0 * B1 * Y)	0.00023	0.00023	0.00024
	(!A0 * A1 * !B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B0 * B1 * Y)	-0.00005	-0.00005	-0.00005

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X0P5H7H	(A0 * A1 * A2 * B1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * A2 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * !Y)	0.00031	0.00032	0.00032
	(A0 * A1 * A2 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * A2 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * !B1 * !Y)	0.00029	0.00029	0.00029
	(!A2 * !B1 * Y)	-0.00019	-0.00018	-0.00018
	(!A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A2 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A2 * !B1 * Y)	0.00020	0.00020	0.00020
	(!A1 * A2 * !B1 * Y)	-0.00019	-0.00018	-0.00018
	(!A1 * A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B1 * Y)	0.00020	0.00020	0.00020
	(!A0 * A1 * A2 * !B1 * Y)	-0.00019	-0.00018	-0.00018
	(!A0 * A1 * A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * A2 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * A2 * !B1 * Y)	0.00020	0.00020	0.00020

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X0P5H7H	(A0 * A1 * A2 * B1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * A2 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * A2 * B1 * !Y)	-0.00032	-0.00031	-0.00031
	(A0 * A1 * A2 * !B1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * A2 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * !B1 * !Y)	-0.00029	-0.00028	-0.00027
	(!A2 * !B1 * Y)	0.00019	0.00019	0.00019
	(!A2 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A2 * !B1 * Y)	-0.00020	-0.00019	-0.00018
	(!A1 * A2 * !B1 * Y)	0.00019	0.00019	0.00019
	(!A1 * A2 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B1 * Y)	-0.00020	-0.00019	-0.00018
	(!A0 * A1 * A2 * !B1 * Y)	0.00019	0.00019	0.00019
	(!A0 * A1 * A2 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * A2 * !B1 * Y)	-0.00020	-0.00019	-0.00018

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X0P5H7H	(A0 * A1 * A2 * B0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * A2 * B0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * A2 * B0 * !Y)	0.00000	0.00000	0.00001
	(A0 * A1 * A2 * B0 * !Y)	0.00031	0.00032	0.00032
	(A0 * A1 * A2 * !B0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * A2 * !B0 * !Y)	0.00001	0.00001	0.00002
	(A0 * A1 * A2 * !B0 * !Y)	0.00028	0.00029	0.00029
	(!A2 * !B0 * Y)	-0.00025	-0.00025	-0.00025
	(!A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A2 * !B0 * Y)	0.00003	0.00003	0.00003
	(!A2 * !B0 * Y)	0.00004	0.00004	0.00004
	(!A1 * A2 * !B0 * Y)	-0.00025	-0.00025	-0.00025
	(!A1 * A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * Y)	0.00003	0.00003	0.00003
	(!A1 * A2 * !B0 * Y)	0.00004	0.00004	0.00004
	(!A0 * A1 * A2 * !B0 * Y)	-0.00025	-0.00025	-0.00025
	(!A0 * A1 * A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * A2 * !B0 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * A2 * !B0 * Y)	0.00004	0.00004	0.00004

Passive power(pJ) for B1 falling (conditional):

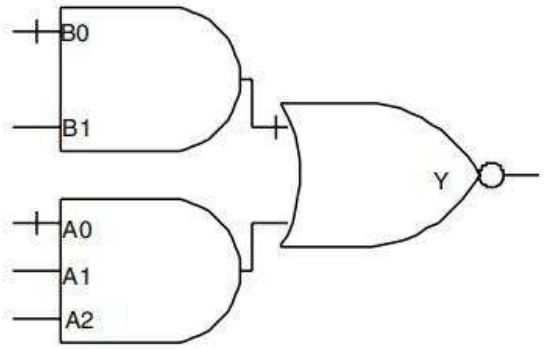
Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X0P5H7H	(A0 * A1 * A2 * B0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * A2 * B0 * !Y)	-0.00032	-0.00031	-0.00031
	(A0 * A1 * A2 * !B0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * A2 * !B0 * !Y)	-0.00002	-0.00001	-0.00001
	(A0 * A1 * A2 * !B0 * !Y)	-0.00029	-0.00028	-0.00027
	(!A2 * !B0 * Y)	0.00025	0.00025	0.00025
	(!A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A2 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A2 * !B0 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * A2 * !B0 * Y)	0.00025	0.00025	0.00025
	(!A1 * A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * A2 * !B0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A1 * A2 * !B0 * Y)	0.00025	0.00025	0.00025
	(!A0 * A1 * A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * A2 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * A2 * !B0 * Y)	-0.00004	-0.00004	-0.00004

AOI32X0P7H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI32 cell provides the logical inverted OR of two AND groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT					OUTPUT
A0	A1	A2	B0	B1	Y
0	x	x	0	x	1
0	x	x	1	0	1
x	x	x	1	1	0
1	0	x	0	x	1
1	0	x	1	0	1
1	1	0	0	x	1
1	1	0	1	0	1
1	1	1	x	x	0

Footprint

Cell Name	Area
AOI32X0P7H7H	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	**A1**	**A2**	**B0**	**B1**	**Y**
AOI32X0P7H7H	0.00078	0.00078	0.00089	0.00084	0.00093	0.01684

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
AOI32X0P7H7H	0.00000	0.01200	0.01764

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI32X0P7H7H	A0->Y (FR)	0.07744	0.25922	0.76373
	A1->Y (FR)	0.07285	0.25307	0.75747
	A2->Y (FR)	0.06849	0.24724	0.75143
	B0->Y (FR)	0.06191	0.23656	0.73808
	B1->Y (FR)	0.05721	0.23031	0.73233

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI32X0P7H7H	A0->Y (RF)	0.06876	0.23195	0.68405
	A1->Y (RF)	0.06685	0.23579	0.71644
	A2->Y (RF)	0.06329	0.22792	0.70676
	B0->Y (RF)	0.03401	0.16410	0.56513
	B1->Y (RF)	0.03243	0.15930	0.57186

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI32X0P7H7H	A0	0.00170	0.00172	0.00173
	A0	-0.00018	-0.00018	-0.00017
	A0	0.00018	0.00018	0.00018
	A0	-0.00010	-0.00008	-0.00007
	A1	0.00158	0.00160	0.00162
	A1	-0.00018	-0.00018	-0.00017
	A1	0.00014	0.00014	0.00014
	A1	-0.00004	-0.00002	-0.00000
	A2	0.00145	0.00149	0.00152
	A2	-0.00018	-0.00017	-0.00017
	A2	0.00006	0.00010	0.00010
	A2	-0.00005	-0.00001	0.00005
	B0	0.00114	0.00118	0.00121
	B0	-0.00006	-0.00006	0.00000
	B0	0.00018	0.00018	0.00018
	B0	-0.00018	-0.00016	-0.00014
	B1	0.00101	0.00105	0.00109
	B1	-0.00006	-0.00006	-0.00001
	B1	0.00013	0.00014	0.00015
	B1	-0.00016	-0.00012	-0.00009

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI32X0P7H7H	A0	-0.00010	-0.00008	-0.00006
	A0	0.00018	0.00018	0.00018
	A0	-0.00014	-0.00014	-0.00014
	A0	0.00168	0.00171	0.00173
	A1	-0.00010	-0.00008	-0.00006
	A1	0.00017	0.00018	0.00019
	A1	-0.00010	-0.00010	-0.00010
	A1	0.00147	0.00149	0.00151
	A2	-0.00012	-0.00009	-0.00006
	A2	0.00018	0.00018	0.00018
	A2	-0.00005	-0.00005	-0.00002
	A2	0.00128	0.00133	0.00137
	B0	-0.00008	-0.00005	0.00003
	B0	0.00006	0.00006	0.00006
	B0	-0.00010	-0.00010	-0.00010
	B0	0.00136	0.00138	0.00140
	B1	-0.00008	-0.00004	-0.00001
	B1	0.00006	0.00006	0.00006
	B1	-0.00005	-0.00005	-0.00005
	B1	0.00117	0.00120	0.00123

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI32X0P7H7H	**(A1 * A2 * B0 * B1 * !Y)**	-0.00011	-0.00009	-0.00007
	(A1 * A2 * B0 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * A2 * B0 * B1 * !Y)	0.00000	0.00000	0.00001
	(A1 * A2 * B0 * B1 * !Y)	0.00029	0.00029	0.00030
	(A1 * !A2 * B0 * B1 * !Y)	-0.00015	-0.00015	-0.00015
	(A1 * !A2 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * B1 * !Y)	0.00001	0.00002	0.00002
	(A1 * !A2 * B0 * B1 * !Y)	0.00024	0.00024	0.00024
	(A1 * !A2 * !B1 * Y)	-0.00015	-0.00015	-0.00015
	(A1 * !A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !B1 * Y)	0.00001	0.00002	0.00002
	(A1 * !A2 * !B1 * Y)	0.00024	0.00024	0.00024
	(A1 * !A2 * !B0 * B1 * Y)	-0.00015	-0.00015	-0.00015
	(A1 * !A2 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !B0 * B1 * Y)	0.00001	0.00002	0.00002
	(A1 * !A2 * !B0 * B1 * Y)	0.00024	0.00024	0.00024
	(!A1 * B0 * B1 * !Y)	-0.00015	-0.00015	-0.00015
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !Y)	0.00001	0.00002	0.00002
	(!A1 * B0 * B1 * !Y)	0.00024	0.00025	0.00025
	(!A1 * A2 * !B1 * Y)	-0.00015	-0.00015	-0.00015
	(!A1 * A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B1 * Y)	0.00024	0.00025	0.00025
	(!A1 * A2 * !B0 * B1 * Y)	-0.00015	-0.00015	-0.00015
	(!A1 * A2 * !B0 * B1 * Y)	-0.00002	-0.00001	-0.00001
	(!A1 * A2 * !B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * B1 * Y)	0.00025	0.00025	0.00025
	(!A1 * !A2 * !B1 * Y)	-0.00015	-0.00015	-0.00014
	(!A1 * !A2 * !B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !A2 * !B1 * Y)	0.00001	0.00002	0.00002
	(!A1 * !A2 * !B1 * Y)	0.00024	0.00025	0.00025
	(!A1 * !A2 * !B0 * B1 * Y)	-0.00015	-0.00015	-0.00015
	(!A1 * !A2 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !A2 * !B0 * B1 * Y)	0.00001	0.00002	0.00002
	(!A1 * !A2 * !B0 * B1 * Y)	0.00025	0.00025	0.00025

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI32X0P7H7H	**(A1 * A2 * B0 * B1 * !Y)**	0.00010	0.00011	0.00011
	(A1 * A2 * B0 * B1 * !Y)	0.00002	0.00002	0.00002
	(A1 * A2 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * A2 * B0 * B1 * !Y)	-0.00029	-0.00029	-0.00029
	(A1 * !A2 * B0 * B1 * !Y)	0.00015	0.00015	0.00015
	(A1 * !A2 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * B1 * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * !A2 * B0 * B1 * !Y)	-0.00024	-0.00023	-0.00022
	(A1 * !A2 * !B1 * Y)	0.00015	0.00015	0.00015
	(A1 * !A2 * !B1 * Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * !B1 * Y)	-0.00002	-0.00002	-0.00001
	(A1 * !A2 * !B1 * Y)	-0.00024	-0.00023	-0.00022
	(A1 * !A2 * !B0 * B1 * Y)	0.00015	0.00015	0.00015
	(A1 * !A2 * !B0 * B1 * Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * !B0 * B1 * Y)	-0.00002	-0.00002	-0.00001
	(A1 * !A2 * !B0 * B1 * Y)	-0.00024	-0.00023	-0.00022
	(!A1 * B0 * B1 * !Y)	0.00015	0.00015	0.00015
	(!A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * B0 * B1 * !Y)	-0.00025	-0.00024	-0.00023
	(!A1 * A2 * !B1 * Y)	0.00015	0.00015	0.00015
	(!A1 * A2 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B1 * Y)	-0.00025	-0.00024	-0.00023
	(!A1 * A2 * !B0 * B1 * Y)	0.00015	0.00015	0.00015
	(!A1 * A2 * !B0 * B1 * Y)	0.00001	0.00001	0.00002
	(!A1 * A2 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * B1 * Y)	-0.00025	-0.00024	-0.00023
	(!A1 * !A2 * !B1 * Y)	0.00015	0.00015	0.00015
	(!A1 * !A2 * !B1 * Y)	0.00000	0.00001	0.00001
	(!A1 * !A2 * !B1 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !A2 * !B1 * Y)	-0.00025	-0.00024	-0.00023
	(!A1 * !A2 * !B0 * B1 * Y)	0.00015	0.00015	0.00015
	(!A1 * !A2 * !B0 * B1 * Y)	0.00000	0.00001	0.00001
	(!A1 * !A2 * !B0 * B1 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !A2 * !B0 * B1 * Y)	-0.00025	-0.00024	-0.00023

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI32X0P7H7H	**(A0 * A2 * B0 * B1 * !Y)**	-0.00011	-0.00009	-0.00007
	(A0 * A2 * B0 * B1 * !Y)	-0.00003	-0.00003	-0.00002
	(A0 * A2 * B0 * B1 * !Y)	0.00000	0.00000	0.00001
	(A0 * A2 * B0 * B1 * !Y)	0.00023	0.00024	0.00024
	(A0 * !A2 * B0 * B1 * !Y)	-0.00016	-0.00015	-0.00015
	(A0 * !A2 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * B0 * B1 * !Y)	0.00001	0.00002	0.00002
	(A0 * !A2 * B0 * B1 * !Y)	0.00019	0.00019	0.00019
	(A0 * !A2 * !B1 * Y)	-0.00016	-0.00015	-0.00015
	(A0 * !A2 * !B1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A2 * !B1 * Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B1 * Y)	0.00019	0.00019	0.00020
	(A0 * !A2 * !B0 * B1 * Y)	-0.00016	-0.00015	-0.00015
	(A0 * !A2 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A2 * !B0 * B1 * Y)	0.00001	0.00001	0.00002
	(A0 * !A2 * !B0 * B1 * Y)	0.00019	0.00019	0.00020
	(!A0 * A2 * B0 * B1 * !Y)	-0.00016	-0.00015	-0.00015
	(!A0 * A2 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B0 * B1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * A2 * B0 * B1 * !Y)	0.00019	0.00019	0.00019
	(!A0 * A2 * !B1 * Y)	-0.00016	-0.00016	-0.00015
	(!A0 * A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * !B1 * Y)	0.00005	0.00005	0.00005
	(!A0 * A2 * !B1 * Y)	0.00006	0.00006	0.00006
	(!A0 * A2 * !B0 * B1 * Y)	-0.00016	-0.00016	-0.00015
	(!A0 * A2 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * !B0 * B1 * Y)	0.00004	0.00005	0.00005
	(!A0 * A2 * !B0 * B1 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * B0 * B1 * !Y)	-0.00016	-0.00016	-0.00015
	(!A0 * !A2 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * B0 * B1 * !Y)	0.00005	0.00006	0.00006
	(!A0 * !A2 * B0 * B1 * !Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * !B1 * Y)	-0.00016	-0.00016	-0.00015
	(!A0 * !A2 * !B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A2 * !B1 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A2 * !B1 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * !B0 * B1 * Y)	-0.00016	-0.00016	-0.00015
	(!A0 * !A2 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * !B0 * B1 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A2 * !B0 * B1 * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI32X0P7H7H	**(A0 * A2 * B0 * B1 * !Y)**	0.00011	0.00011	0.00011
	(A0 * A2 * B0 * B1 * !Y)	0.00002	0.00003	0.00003
	(A0 * A2 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B0 * B1 * !Y)	-0.00023	-0.00023	-0.00023
	(A0 * !A2 * B0 * B1 * !Y)	0.00015	0.00015	0.00016
	(A0 * !A2 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * B0 * B1 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * !A2 * B0 * B1 * !Y)	-0.00019	-0.00018	-0.00017
	(A0 * !A2 * !B1 * Y)	0.00016	0.00016	0.00018
	(A0 * !A2 * !B1 * Y)	0.00000	0.00001	0.00001
	(A0 * !A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B1 * Y)	-0.00020	-0.00018	-0.00017
	(A0 * !A2 * !B0 * B1 * Y)	0.00016	0.00016	0.00017
	(A0 * !A2 * !B0 * B1 * Y)	0.00000	0.00001	0.00001
	(A0 * !A2 * !B0 * B1 * Y)	-0.00002	-0.00001	-0.00001
	(A0 * !A2 * !B0 * B1 * Y)	-0.00020	-0.00018	-0.00017
	(!A0 * A2 * B0 * B1 * !Y)	0.00015	0.00016	0.00016
	(!A0 * A2 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * B0 * B1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A2 * B0 * B1 * !Y)	-0.00019	-0.00018	-0.00017
	(!A0 * A2 * !B1 * Y)	0.00016	0.00016	0.00016
	(!A0 * A2 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * !B1 * Y)	-0.00005	-0.00005	-0.00004
	(!A0 * A2 * !B1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * A2 * !B0 * B1 * Y)	0.00016	0.00016	0.00016
	(!A0 * A2 * !B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * !B0 * B1 * Y)	-0.00005	-0.00005	-0.00004
	(!A0 * A2 * !B0 * B1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * B0 * B1 * !Y)	0.00016	0.00016	0.00016
	(!A0 * !A2 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A2 * B0 * B1 * !Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !A2 * B0 * B1 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * !B1 * Y)	0.00016	0.00016	0.00016
	(!A0 * !A2 * !B1 * Y)	0.00000	0.00001	0.00001
	(!A0 * !A2 * !B1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A2 * !B1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * !B0 * B1 * Y)	0.00016	0.00016	0.00016
	(!A0 * !A2 * !B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A2 * !B0 * B1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A2 * !B0 * B1 * Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X0P7H7H	(A0 * A1 * B0 * B1 * !Y)	-0.00011	-0.00009	-0.00007
	(A0 * A1 * B0 * B1 * !Y)	-0.00003	-0.00003	-0.00002
	(A0 * A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00001
	(A0 * A1 * B0 * B1 * !Y)	0.00026	0.00027	0.00027
	(!A1 * B0 * B1 * !Y)	-0.00016	-0.00016	-0.00016
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !Y)	0.00001	0.00002	0.00002
	(!A1 * B0 * B1 * !Y)	0.00022	0.00022	0.00022
	(!A1 * !B1 * Y)	-0.00026	-0.00026	-0.00025
	(!A1 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B1 * Y)	0.00006	0.00006	0.00006
	(!A1 * !B0 * B1 * Y)	-0.00026	-0.00026	-0.00025
	(!A1 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * B1 * Y)	0.00006	0.00006	0.00006
	(!A0 * A1 * B0 * B1 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0 * A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * B1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * B0 * B1 * !Y)	0.00022	0.00022	0.00022
	(!A0 * A1 * !B1 * Y)	-0.00026	-0.00026	-0.00025
	(!A0 * A1 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * !B1 * Y)	0.00005	0.00006	0.00006
	(!A0 * A1 * !B0 * B1 * Y)	-0.00026	-0.00026	-0.00026
	(!A0 * A1 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * B1 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * !B0 * B1 * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X0P7H7H	(A0 * A1 * B0 * B1 * !Y)	0.00011	0.00011	0.00011
	(A0 * A1 * B0 * B1 * !Y)	0.00002	0.00003	0.00003
	(A0 * A1 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * B1 * !Y)	-0.00027	-0.00026	-0.00026
	(!A1 * B0 * B1 * !Y)	0.00016	0.00016	0.00016
	(!A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * B0 * B1 * !Y)	-0.00022	-0.00021	-0.00020
	(!A1 * !B1 * Y)	0.00026	0.00026	0.00026
	(!A1 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B1 * Y)	-0.00006	-0.00006	-0.00006
	(!A1 * !B0 * B1 * Y)	0.00026	0.00026	0.00026
	(!A1 * !B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * B1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * A1 * B0 * B1 * !Y)	0.00016	0.00016	0.00016
	(!A0 * A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * B1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * B0 * B1 * !Y)	-0.00022	-0.00020	-0.00018
	(!A0 * A1 * !B1 * Y)	0.00026	0.00026	0.00026
	(!A0 * A1 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * !B1 * Y)	-0.00006	-0.00006	-0.00005
	(!A0 * A1 * !B0 * B1 * Y)	0.00026	0.00026	0.00026
	(!A0 * A1 * !B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * !B0 * B1 * Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X0P7H7H	(A0 * A1 * A2 * B1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * A2 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * !Y)	0.00033	0.00034	0.00034
	(A0 * A1 * A2 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * A2 * !B1 * !Y)	0.00001	0.00002	0.00002
	(A0 * A1 * A2 * !B1 * !Y)	0.00030	0.00031	0.00031
	(!A2 * !B1 * Y)	-0.00019	-0.00019	-0.00019
	(!A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A2 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A2 * !B1 * Y)	0.00021	0.00021	0.00022
	(!A1 * A2 * !B1 * Y)	-0.00020	-0.00019	-0.00019
	(!A1 * A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B1 * Y)	0.00021	0.00021	0.00022
	(!A0 * A1 * A2 * !B1 * Y)	-0.00020	-0.00019	-0.00019
	(!A0 * A1 * A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * A2 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * A2 * !B1 * Y)	0.00021	0.00021	0.00022

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X0P7H7H	(A0 * A1 * A2 * B1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * !Y)	0.00003	0.00003	0.00004
	(A0 * A1 * A2 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * A2 * B1 * !Y)	-0.00034	-0.00033	-0.00033
	(A0 * A1 * A2 * !B1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * A2 * !B1 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * A2 * !B1 * !Y)	-0.00031	-0.00030	-0.00029
	(!A2 * !B1 * Y)	0.00019	0.00020	0.00020
	(!A2 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A2 * !B1 * Y)	-0.00021	-0.00020	-0.00019
	(!A1 * A2 * !B1 * Y)	0.00019	0.00020	0.00020
	(!A1 * A2 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B1 * Y)	-0.00021	-0.00020	-0.00019
	(!A0 * A1 * A2 * !B1 * Y)	0.00019	0.00020	0.00020
	(!A0 * A1 * A2 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * A2 * !B1 * Y)	-0.00021	-0.00020	-0.00019

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X0P7H7H	(A0 * A1 * A2 * B0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * A2 * B0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * A2 * B0 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * A2 * B0 * !Y)	0.00034	0.00034	0.00034
	(A0 * A1 * A2 * !B0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * A2 * !B0 * !Y)	0.00001	0.00002	0.00002
	(A0 * A1 * A2 * !B0 * !Y)	0.00031	0.00031	0.00031
	(!A2 * !B0 * Y)	-0.00028	-0.00027	-0.00027
	(!A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A2 * !B0 * Y)	0.00003	0.00003	0.00003
	(!A2 * !B0 * Y)	0.00004	0.00005	0.00005
	(!A1 * A2 * !B0 * Y)	-0.00028	-0.00027	-0.00027
	(!A1 * A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * Y)	0.00003	0.00003	0.00003
	(!A1 * A2 * !B0 * Y)	0.00004	0.00005	0.00005
	(!A0 * A1 * A2 * !B0 * Y)	-0.00028	-0.00027	-0.00027
	(!A0 * A1 * A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * A2 * !B0 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * A2 * !B0 * Y)	0.00004	0.00005	0.00005

Passive power(pJ) for B1 falling (conditional):

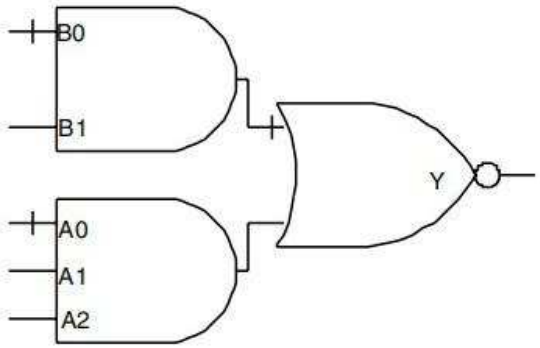
Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X0P7H7H	(A0 * A1 * A2 * B0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * A2 * B0 * !Y)	-0.00034	-0.00034	-0.00034
	(A0 * A1 * A2 * !B0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * A2 * !B0 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * A2 * !B0 * !Y)	-0.00031	-0.00030	-0.00029
	(!A2 * !B0 * Y)	0.00027	0.00028	0.00028
	(!A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A2 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A2 * !B0 * Y)	-0.00005	-0.00005	-0.00004
	(!A1 * A2 * !B0 * Y)	0.00027	0.00028	0.00028
	(!A1 * A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * A2 * !B0 * Y)	-0.00005	-0.00005	-0.00004
	(!A0 * A1 * A2 * !B0 * Y)	0.00027	0.00028	0.00028
	(!A0 * A1 * A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * A2 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * A2 * !B0 * Y)	-0.00005	-0.00005	-0.00004

AOI32X1H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI32 cell provides the logical inverted OR of two AND groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT					OUTPUT
A0	A1	A2	B0	B1	Y
0	x	x	0	x	1
0	x	x	1	0	1
x	x	x	1	1	0
1	0	x	0	x	1
1	0	x	1	0	1
1	1	0	0	x	1
1	1	0	1	0	1
1	1	1	x	x	0

Footprint

Cell Name	Area
AOI32X1H7H	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	**A1**	**A2**	**B0**	**B1**	**Y**
AOI32X1H7H	0.00087	0.00089	0.00100	0.00090	0.00105	0.02019

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
AOI32X1H7H	0.00000	0.01509	0.02507

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI32X1H7H	A0->Y (FR)	0.07123	0.25412	0.76354
	A1->Y (FR)	0.06672	0.24799	0.75735
	A2->Y (FR)	0.06266	0.24243	0.75239
	B0->Y (FR)	0.05636	0.23239	0.73876
	B1->Y (FR)	0.05302	0.22733	0.73510

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI32X1H7H	A0->Y (RF)	0.06645	0.23631	0.70759
	A1->Y (RF)	0.06396	0.23903	0.73537
	A2->Y (RF)	0.06025	0.23018	0.72259
	B0->Y (RF)	0.03218	0.16663	0.58107
	B1->Y (RF)	0.03104	0.16154	0.58531

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI32X1H7H	A0	0.00189	0.00192	0.00194
	A0	-0.00022	-0.00021	-0.00021
	A0	0.00021	0.00021	0.00021
	A0	-0.00011	-0.00010	-0.00008
	A1	0.00175	0.00178	0.00180
	A1	-0.00022	-0.00021	-0.00019
	A1	0.00016	0.00017	0.00017
	A1	-0.00007	-0.00004	-0.00003
	A2	0.00161	0.00165	0.00169
	A2	-0.00022	-0.00021	-0.00021
	A2	0.00008	0.00011	0.00012
	A2	-0.00008	-0.00003	0.00003
	B0	0.00126	0.00132	0.00135
	B0	-0.00007	-0.00007	0.00000
	B0	0.00021	0.00021	0.00021
	B0	-0.00020	-0.00018	-0.00016
	B1	0.00115	0.00120	0.00125
	B1	-0.00007	-0.00007	0.00000
	B1	0.00015	0.00016	0.00017
	B1	-0.00018	-0.00013	-0.00009

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI32X1H7H	A0	-0.00012	-0.00009	-0.00008
	A0	0.00022	0.00022	0.00023
	A0	-0.00016	-0.00016	-0.00016
	A0	0.00189	0.00192	0.00194
	A1	-0.00012	-0.00010	-0.00008
	A1	0.00022	0.00022	0.00023
	A1	-0.00012	-0.00011	-0.00011
	A1	0.00165	0.00168	0.00170
	A2	-0.00014	-0.00010	-0.00008
	A2	0.00022	0.00022	0.00023
	A2	-0.00006	-0.00006	-0.00006
	A2	0.00145	0.00150	0.00154
	B0	-0.00028	-0.00007	-0.00001
	B0	0.00000	0.00008	0.00033
	B0	-0.00011	-0.00011	-0.00011
	B0	0.00151	0.00154	0.00157
	B1	-0.00012	-0.00007	0.00005
	B1	0.00006	0.00007	0.00012
	B1	-0.00006	-0.00006	-0.00006
	B1	0.00130	0.00134	0.00138

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI32X1H7H	**(A1 * A2 * B0 * B1 * !Y)**	-0.00013	-0.00011	-0.00008
	(A1 * A2 * B0 * B1 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * A2 * B0 * B1 * !Y)	0.00000	0.00001	0.00001
	(A1 * A2 * B0 * B1 * !Y)	0.00029	0.00029	0.00030
	(A1 * !A2 * B0 * B1 * !Y)	-0.00018	-0.00018	-0.00017
	(A1 * !A2 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * B1 * !Y)	0.00002	0.00002	0.00002
	(A1 * !A2 * B0 * B1 * !Y)	0.00024	0.00024	0.00024
	(A1 * !A2 * !B1 * Y)	-0.00018	-0.00018	-0.00017
	(A1 * !A2 * !B1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * !B1 * Y)	0.00002	0.00002	0.00002
	(A1 * !A2 * !B1 * Y)	0.00024	0.00024	0.00025
	(A1 * !A2 * !B0 * B1 * Y)	-0.00018	-0.00018	-0.00017
	(A1 * !A2 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * !B0 * B1 * Y)	0.00002	0.00002	0.00002
	(A1 * !A2 * !B0 * B1 * Y)	0.00024	0.00024	0.00025
	(!A1 * B0 * B1 * !Y)	-0.00018	-0.00018	-0.00017
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !Y)	0.00001	0.00002	0.00002
	(!A1 * B0 * B1 * !Y)	0.00025	0.00025	0.00025
	(!A1 * A2 * !B1 * Y)	-0.00018	-0.00017	-0.00017
	(!A1 * A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B1 * Y)	0.00002	0.00002	0.00002
	(!A1 * A2 * !B1 * Y)	0.00025	0.00025	0.00025
	(!A1 * A2 * !B0 * B1 * Y)	-0.00018	-0.00018	-0.00017
	(!A1 * A2 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * A2 * !B0 * B1 * Y)	0.00002	0.00002	0.00002
	(!A1 * A2 * !B0 * B1 * Y)	0.00025	0.00025	0.00025
	(!A1 * !A2 * !B1 * Y)	-0.00018	-0.00018	-0.00017
	(!A1 * !A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B1 * Y)	0.00002	0.00002	0.00002
	(!A1 * !A2 * !B1 * Y)	0.00024	0.00025	0.00025
	(!A1 * !A2 * !B0 * B1 * Y)	-0.00018	-0.00018	-0.00017
	(!A1 * !A2 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B0 * B1 * Y)	0.00002	0.00002	0.00002
	(!A1 * !A2 * !B0 * B1 * Y)	0.00024	0.00025	0.00025

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI32X1H7H	**(A1 * A2 * B0 * B1 * !Y)**	0.00012	0.00013	0.00013
	(A1 * A2 * B0 * B1 * !Y)	0.00003	0.00003	0.00003
	(A1 * A2 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * A2 * B0 * B1 * !Y)	-0.00029	-0.00029	-0.00029
	(A1 * !A2 * B0 * B1 * !Y)	0.00017	0.00018	0.00018
	(A1 * !A2 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * B0 * B1 * !Y)	-0.00024	-0.00023	-0.00021
	(A1 * !A2 * !B1 * Y)	0.00017	0.00018	0.00018
	(A1 * !A2 * !B1 * Y)	0.00000	0.00001	0.00001
	(A1 * !A2 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * !B1 * Y)	-0.00024	-0.00023	-0.00022
	(A1 * !A2 * !B0 * B1 * Y)	0.00017	0.00018	0.00018
	(A1 * !A2 * !B0 * B1 * Y)	0.00000	0.00001	0.00001
	(A1 * !A2 * !B0 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * !B0 * B1 * Y)	-0.00024	-0.00023	-0.00022
	(!A1 * B0 * B1 * !Y)	0.00017	0.00018	0.00018
	(!A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * B0 * B1 * !Y)	-0.00025	-0.00024	-0.00022
	(!A1 * A2 * !B1 * Y)	0.00017	0.00018	0.00018
	(!A1 * A2 * !B1 * Y)	0.00001	0.00001	0.00002
	(!A1 * A2 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * !B1 * Y)	-0.00025	-0.00024	-0.00022
	(!A1 * A2 * !B0 * B1 * Y)	0.00017	0.00018	0.00018
	(!A1 * A2 * !B0 * B1 * Y)	0.00000	0.00001	0.00001
	(!A1 * A2 * !B0 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * !B0 * B1 * Y)	-0.00025	-0.00024	-0.00023
	(!A1 * !A2 * !B1 * Y)	0.00017	0.00018	0.00018
	(!A1 * !A2 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !A2 * !B1 * Y)	-0.00025	-0.00024	-0.00022
	(!A1 * !A2 * !B0 * B1 * Y)	0.00017	0.00018	0.00018
	(!A1 * !A2 * !B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B0 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !A2 * !B0 * B1 * Y)	-0.00025	-0.00024	-0.00022

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI32X1H7H	**(A0 * A2 * B0 * B1 * !Y)**	-0.00013	-0.00011	-0.00008
	(A0 * A2 * B0 * B1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A2 * B0 * B1 * !Y)	0.00000	0.00001	0.00001
	(A0 * A2 * B0 * B1 * !Y)	0.00025	0.00025	0.00025
	(A0 * !A2 * B0 * B1 * !Y)	-0.00018	-0.00017	-0.00017
	(A0 * !A2 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * B0 * B1 * !Y)	0.00001	0.00002	0.00002
	(A0 * !A2 * B0 * B1 * !Y)	0.00020	0.00021	0.00021
	(A0 * !A2 * !B1 * Y)	-0.00018	-0.00017	-0.00017
	(A0 * !A2 * !B1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A2 * !B1 * Y)	0.00001	0.00002	0.00002
	(A0 * !A2 * !B1 * Y)	0.00021	0.00021	0.00021
	(A0 * !A2 * !B0 * B1 * Y)	-0.00018	-0.00017	-0.00017
	(A0 * !A2 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A2 * !B0 * B1 * Y)	0.00001	0.00002	0.00002
	(A0 * !A2 * !B0 * B1 * Y)	0.00021	0.00021	0.00021
	(!A0 * A2 * B0 * B1 * !Y)	-0.00018	-0.00018	-0.00017
	(!A0 * A2 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B0 * B1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * A2 * B0 * B1 * !Y)	0.00020	0.00020	0.00021
	(!A0 * A2 * !B1 * Y)	-0.00018	-0.00018	-0.00017
	(!A0 * A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * !B1 * Y)	0.00005	0.00005	0.00005
	(!A0 * A2 * !B1 * Y)	0.00006	0.00006	0.00007
	(!A0 * A2 * !B0 * B1 * Y)	-0.00018	-0.00018	-0.00017
	(!A0 * A2 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * !B0 * B1 * Y)	0.00005	0.00005	0.00005
	(!A0 * A2 * !B0 * B1 * Y)	0.00006	0.00006	0.00007
	(!A0 * !A2 * B0 * B1 * !Y)	-0.00018	-0.00018	-0.00017
	(!A0 * !A2 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * B0 * B1 * !Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * B0 * B1 * !Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * !B1 * Y)	-0.00018	-0.00017	-0.00017
	(!A0 * !A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * !B1 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * !B1 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * !B0 * B1 * Y)	-0.00018	-0.00018	-0.00017
	(!A0 * !A2 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * !B0 * B1 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * !B0 * B1 * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI32X1H7H	**(A0 * A2 * B0 * B1 * !Y)**	0.00012	0.00013	0.00013
	(A0 * A2 * B0 * B1 * !Y)	0.00003	0.00003	0.00003
	(A0 * A2 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A2 * B0 * B1 * !Y)	-0.00025	-0.00025	-0.00024
	(A0 * !A2 * B0 * B1 * !Y)	0.00017	0.00017	0.00018
	(A0 * !A2 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * B0 * B1 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * !A2 * B0 * B1 * !Y)	-0.00021	-0.00020	-0.00018
	(A0 * !A2 * !B1 * Y)	0.00018	0.00018	0.00019
	(A0 * !A2 * !B1 * Y)	0.00000	0.00001	0.00001
	(A0 * !A2 * !B1 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * !A2 * !B1 * Y)	-0.00021	-0.00020	-0.00018
	(A0 * !A2 * !B0 * B1 * Y)	0.00018	0.00018	0.00019
	(A0 * !A2 * !B0 * B1 * Y)	0.00000	0.00001	0.00001
	(A0 * !A2 * !B0 * B1 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * !A2 * !B0 * B1 * Y)	-0.00021	-0.00020	-0.00018
	(!A0 * A2 * B0 * B1 * !Y)	0.00017	0.00018	0.00018
	(!A0 * A2 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * B0 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A2 * B0 * B1 * !Y)	-0.00021	-0.00020	-0.00018
	(!A0 * A2 * !B1 * Y)	0.00017	0.00018	0.00018
	(!A0 * A2 * !B1 * Y)	0.00001	0.00001	0.00002
	(!A0 * A2 * !B1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * A2 * !B1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * A2 * !B0 * B1 * Y)	0.00017	0.00018	0.00018
	(!A0 * A2 * !B0 * B1 * Y)	0.00001	0.00001	0.00002
	(!A0 * A2 * !B0 * B1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * A2 * !B0 * B1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * B0 * B1 * !Y)	0.00017	0.00018	0.00018
	(!A0 * !A2 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A2 * B0 * B1 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * B0 * B1 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * !B1 * Y)	0.00018	0.00018	0.00018
	(!A0 * !A2 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A2 * !B1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * !B1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * !B0 * B1 * Y)	0.00018	0.00018	0.00018
	(!A0 * !A2 * !B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A2 * !B0 * B1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * !B0 * B1 * Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X1H7H	(A0 * A1 * B0 * B1 * !Y)	-0.00013	-0.00011	-0.00008
	(A0 * A1 * B0 * B1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * B0 * B1 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B0 * B1 * !Y)	0.00028	0.00028	0.00029
	(!A1 * B0 * B1 * !Y)	-0.00018	-0.00018	-0.00018
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * B1 * !Y)	0.00024	0.00024	0.00024
	(!A1 * !B1 * Y)	-0.00029	-0.00029	-0.00029
	(!A1 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B1 * Y)	0.00006	0.00006	0.00006
	(!A1 * !B0 * B1 * Y)	-0.00029	-0.00029	-0.00028
	(!A1 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * B1 * Y)	0.00006	0.00006	0.00006
	(!A0 * A1 * B0 * B1 * !Y)	-0.00018	-0.00018	-0.00018
	(!A0 * A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * B1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * B0 * B1 * !Y)	0.00023	0.00023	0.00024
	(!A0 * A1 * !B1 * Y)	-0.00029	-0.00029	-0.00028
	(!A0 * A1 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * !B1 * Y)	0.00005	0.00006	0.00006
	(!A0 * A1 * !B0 * B1 * Y)	-0.00029	-0.00029	-0.00029
	(!A0 * A1 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * B1 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * !B0 * B1 * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X1H7H	(A0 * A1 * B0 * B1 * !Y)	0.00013	0.00013	0.00013
	(A0 * A1 * B0 * B1 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * B0 * B1 * !Y)	-0.00028	-0.00028	-0.00028
	(!A1 * B0 * B1 * !Y)	0.00018	0.00018	0.00018
	(!A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * B1 * !Y)	-0.00024	-0.00023	-0.00022
	(!A1 * !B1 * Y)	0.00029	0.00029	0.00029
	(!A1 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B1 * Y)	-0.00006	-0.00006	-0.00006
	(!A1 * !B0 * B1 * Y)	0.00029	0.00029	0.00029
	(!A1 * !B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * B1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * A1 * B0 * B1 * !Y)	0.00018	0.00018	0.00018
	(!A0 * A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * B1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * B0 * B1 * !Y)	-0.00023	-0.00022	-0.00019
	(!A0 * A1 * !B1 * Y)	0.00029	0.00029	0.00029
	(!A0 * A1 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * !B1 * Y)	-0.00006	-0.00006	-0.00005
	(!A0 * A1 * !B0 * B1 * Y)	0.00029	0.00029	0.00029
	(!A0 * A1 * !B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * !B0 * B1 * Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X1H7H	(A0 * A1 * A2 * B1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * A2 * B1 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * A2 * B1 * !Y)	0.00035	0.00036	0.00036
	(A0 * A1 * A2 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * A2 * !B1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * A2 * !B1 * !Y)	0.00032	0.00033	0.00033
	(!A2 * !B1 * Y)	-0.00021	-0.00020	-0.00020
	(!A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A2 * !B1 * Y)	0.00001	0.00002	0.00002
	(!A2 * !B1 * Y)	0.00023	0.00023	0.00023
	(!A1 * A2 * !B1 * Y)	-0.00021	-0.00020	-0.00020
	(!A1 * A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B1 * Y)	0.00001	0.00002	0.00002
	(!A1 * A2 * !B1 * Y)	0.00023	0.00023	0.00023
	(!A0 * A1 * A2 * !B1 * Y)	-0.00021	-0.00020	-0.00020
	(!A0 * A1 * A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * A2 * !B1 * Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * A2 * !B1 * Y)	0.00023	0.00023	0.00024

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X1H7H	(A0 * A1 * A2 * B1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * A2 * B1 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * A2 * B1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * A2 * B1 * !Y)	-0.00036	-0.00035	-0.00035
	(A0 * A1 * A2 * !B1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * A2 * !B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * A2 * !B1 * !Y)	-0.00033	-0.00032	-0.00030
	(!A2 * !B1 * Y)	0.00021	0.00021	0.00021
	(!A2 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A2 * !B1 * Y)	-0.00002	-0.00002	-0.00001
	(!A2 * !B1 * Y)	-0.00023	-0.00022	-0.00021
	(!A1 * A2 * !B1 * Y)	0.00021	0.00021	0.00021
	(!A1 * A2 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B1 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * A2 * !B1 * Y)	-0.00023	-0.00022	-0.00021
	(!A0 * A1 * A2 * !B1 * Y)	0.00021	0.00021	0.00021
	(!A0 * A1 * A2 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * A2 * !B1 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * A2 * !B1 * Y)	-0.00023	-0.00022	-0.00021

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X1H7H	(A0 * A1 * A2 * B0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * A2 * B0 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * A2 * B0 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * A2 * B0 * !Y)	0.00038	0.00038	0.00038
	(A0 * A1 * A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * !Y)	-0.00004	-0.00003	-0.00003
	(A0 * A1 * A2 * !B0 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * A2 * !B0 * !Y)	0.00034	0.00034	0.00034
	(!A2 * !B0 * Y)	-0.00032	-0.00032	-0.00032
	(!A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A2 * !B0 * Y)	0.00004	0.00004	0.00004
	(!A2 * !B0 * Y)	0.00004	0.00004	0.00004
	(!A1 * A2 * !B0 * Y)	-0.00032	-0.00032	-0.00032
	(!A1 * A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * Y)	0.00004	0.00004	0.00004
	(!A1 * A2 * !B0 * Y)	0.00004	0.00004	0.00004
	(!A0 * A1 * A2 * !B0 * Y)	-0.00032	-0.00032	-0.00032
	(!A0 * A1 * A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * A2 * !B0 * Y)	0.00004	0.00004	0.00004
	(!A0 * A1 * A2 * !B0 * Y)	0.00004	0.00004	0.00004

Passive power(pJ) for B1 falling (conditional):

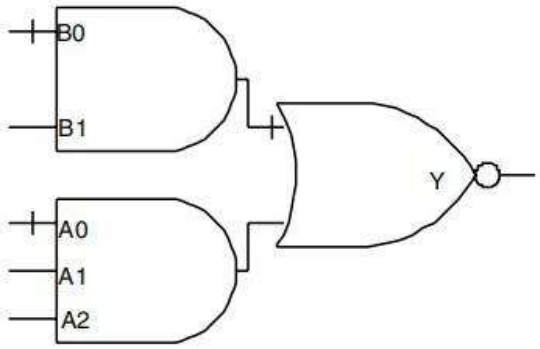
Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X1H7H	(A0 * A1 * A2 * B0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * A2 * B0 * !Y)	-0.00038	-0.00038	-0.00038
	(A0 * A1 * A2 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * A2 * !B0 * !Y)	0.00003	0.00003	0.00004
	(A0 * A1 * A2 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * A2 * !B0 * !Y)	-0.00034	-0.00033	-0.00032
	(!A2 * !B0 * Y)	0.00032	0.00032	0.00032
	(!A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A2 * !B0 * Y)	-0.00004	-0.00003	-0.00003
	(!A2 * !B0 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * A2 * !B0 * Y)	0.00032	0.00032	0.00032
	(!A1 * A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * Y)	-0.00004	-0.00003	-0.00003
	(!A1 * A2 * !B0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A1 * A2 * !B0 * Y)	0.00032	0.00032	0.00032
	(!A0 * A1 * A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * A2 * !B0 * Y)	-0.00004	-0.00003	-0.00003
	(!A0 * A1 * A2 * !B0 * Y)	-0.00004	-0.00004	-0.00004

AOI32X1P4H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI32 cell provides the logical inverted OR of two AND groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT					OUTPUT
A0	A1	A2	B0	B1	Y
0	x	x	0	x	1
0	x	x	1	0	1
x	x	x	1	1	0
1	0	x	0	x	1
1	0	x	1	0	1
1	1	0	0	x	1
1	1	0	1	0	1
1	1	1	x	x	0

Footprint

Cell Name	Area
AOI32X1P4H7H	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	**A1**	**A2**	**B0**	**B1**	**Y**
AOI32X1P4H7H	0.00092	0.00095	0.00107	0.00095	0.00112	0.02299

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
AOI32X1P4H7H	0.00000	0.01918	0.03668

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI32X1P4H7H	A0->Y (FR)	0.06753	0.25118	0.76337
	A1->Y (FR)	0.06314	0.24517	0.75738
	A2->Y (FR)	0.05902	0.23955	0.75262
	B0->Y (FR)	0.05326	0.23024	0.74133
	B1->Y (FR)	0.04982	0.22508	0.73649

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI32X1P4H7H	A0->Y (RF)	0.06370	0.23560	0.71391
	A1->Y (RF)	0.06109	0.23776	0.74062
	A2->Y (RF)	0.05708	0.22815	0.72450
	B0->Y (RF)	0.03054	0.16615	0.58681
	B1->Y (RF)	0.02892	0.15993	0.58773

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI32X1P4H7H	A0	0.00206	0.00210	0.00212
	A0	-0.00025	-0.00025	-0.00025
	A0	0.00024	0.00025	0.00025
	A0	-0.00013	-0.00012	-0.00010
	A1	0.00191	0.00194	0.00196
	A1	-0.00025	-0.00025	-0.00024
	A1	0.00019	0.00019	0.00021
	A1	-0.00010	-0.00007	-0.00005
	A2	0.00174	0.00179	0.00183
	A2	-0.00025	-0.00025	-0.00023
	A2	0.00003	0.00013	0.00013
	A2	-0.00011	-0.00006	0.00000
	B0	0.00140	0.00145	0.00148
	B0	-0.00009	-0.00008	-0.00007
	B0	0.00024	0.00024	0.00025
	B0	-0.00020	-0.00017	-0.00015
	B1	0.00126	0.00131	0.00136
	B1	-0.00009	-0.00008	0.00000
	B1	0.00018	0.00019	0.00019
	B1	-0.00019	-0.00014	-0.00010

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI32X1P4H7H	A0	-0.00014	-0.00011	-0.00009
	A0	0.00026	0.00026	0.00026
	A0	-0.00019	-0.00019	-0.00018
	A0	0.00206	0.00210	0.00212
	A1	-0.00013	-0.00011	-0.00009
	A1	0.00026	0.00026	0.00026
	A1	-0.00013	-0.00013	-0.00013
	A1	0.00177	0.00185	0.00187
	A2	-0.00016	-0.00012	-0.00009
	A2	0.00025	0.00025	0.00027
	A2	-0.00013	-0.00013	-0.00003
	A2	0.00156	0.00164	0.00168
	B0	-0.00012	-0.00008	-0.00005
	B0	0.00008	0.00009	0.00026
	B0	-0.00013	-0.00013	-0.00013
	B0	0.00162	0.00166	0.00169
	B1	-0.00032	-0.00009	-0.00001
	B1	0.00000	0.00009	0.00036
	B1	-0.00007	-0.00007	-0.00007
	B1	0.00137	0.00145	0.00149

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI32X1P4H7H	**(A1 * A2 * B0 * B1 * !Y)**	-0.00014	-0.00012	-0.00010
	(A1 * A2 * B0 * B1 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * A2 * B0 * B1 * !Y)	0.00000	0.00001	0.00001
	(A1 * A2 * B0 * B1 * !Y)	0.00030	0.00030	0.00031
	(A1 * !A2 * B0 * B1 * !Y)	-0.00020	-0.00020	-0.00020
	(A1 * !A2 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * B1 * !Y)	0.00002	0.00002	0.00002
	(A1 * !A2 * B0 * B1 * !Y)	0.00024	0.00025	0.00025
	(A1 * !A2 * !B1 * Y)	-0.00020	-0.00020	-0.00020
	(A1 * !A2 * !B1 * Y)	-0.00002	-0.00001	-0.00001
	(A1 * !A2 * !B1 * Y)	0.00002	0.00002	0.00002
	(A1 * !A2 * !B1 * Y)	0.00025	0.00025	0.00025
	(A1 * !A2 * !B0 * B1 * Y)	-0.00020	-0.00020	-0.00020
	(A1 * !A2 * !B0 * B1 * Y)	-0.00002	-0.00001	-0.00001
	(A1 * !A2 * !B0 * B1 * Y)	0.00002	0.00002	0.00002
	(A1 * !A2 * !B0 * B1 * Y)	0.00025	0.00025	0.00025
	(!A1 * B0 * B1 * !Y)	-0.00020	-0.00020	-0.00020
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * B1 * !Y)	0.00025	0.00025	0.00025
	(!A1 * A2 * !B1 * Y)	-0.00020	-0.00020	-0.00020
	(!A1 * A2 * !B1 * Y)	-0.00002	-0.00001	-0.00001
	(!A1 * A2 * !B1 * Y)	0.00002	0.00002	0.00002
	(!A1 * A2 * !B1 * Y)	0.00026	0.00026	0.00026
	(!A1 * A2 * !B0 * B1 * Y)	-0.00020	-0.00020	-0.00020
	(!A1 * A2 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * B1 * Y)	0.00002	0.00002	0.00002
	(!A1 * A2 * !B0 * B1 * Y)	0.00026	0.00026	0.00026
	(!A1 * !A2 * !B1 * Y)	-0.00020	-0.00020	-0.00020
	(!A1 * !A2 * !B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !A2 * !B1 * Y)	0.00002	0.00002	0.00002
	(!A1 * !A2 * !B1 * Y)	0.00025	0.00025	0.00025
	(!A1 * !A2 * !B0 * B1 * Y)	-0.00020	-0.00020	-0.00020
	(!A1 * !A2 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B0 * B1 * Y)	0.00002	0.00002	0.00002
	(!A1 * !A2 * !B0 * B1 * Y)	0.00025	0.00025	0.00026

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI32X1P4H7H	**(A1 * A2 * B0 * B1 * !Y)**	0.00014	0.00014	0.00014
	(A1 * A2 * B0 * B1 * !Y)	0.00003	0.00003	0.00003
	(A1 * A2 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * A2 * B0 * B1 * !Y)	-0.00030	-0.00030	-0.00029
	(A1 * !A2 * B0 * B1 * !Y)	0.00020	0.00020	0.00020
	(A1 * !A2 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * B0 * B1 * !Y)	-0.00025	-0.00023	-0.00021
	(A1 * !A2 * !B1 * Y)	0.00020	0.00020	0.00020
	(A1 * !A2 * !B1 * Y)	0.00001	0.00001	0.00002
	(A1 * !A2 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * !B1 * Y)	-0.00025	-0.00023	-0.00021
	(A1 * !A2 * !B0 * B1 * Y)	0.00020	0.00020	0.00020
	(A1 * !A2 * !B0 * B1 * Y)	0.00001	0.00002	0.00002
	(A1 * !A2 * !B0 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * !B0 * B1 * Y)	-0.00025	-0.00023	-0.00021
	(!A1 * B0 * B1 * !Y)	0.00020	0.00020	0.00020
	(!A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * B1 * !Y)	-0.00025	-0.00024	-0.00023
	(!A1 * A2 * !B1 * Y)	0.00020	0.00020	0.00020
	(!A1 * A2 * !B1 * Y)	0.00001	0.00001	0.00002
	(!A1 * A2 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * !B1 * Y)	-0.00026	-0.00024	-0.00022
	(!A1 * A2 * !B0 * B1 * Y)	0.00020	0.00020	0.00020
	(!A1 * A2 * !B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * !B0 * B1 * Y)	-0.00026	-0.00024	-0.00023
	(!A1 * !A2 * !B1 * Y)	0.00020	0.00020	0.00020
	(!A1 * !A2 * !B1 * Y)	0.00000	0.00001	0.00001
	(!A1 * !A2 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !A2 * !B1 * Y)	-0.00025	-0.00024	-0.00023
	(!A1 * !A2 * !B0 * B1 * Y)	0.00020	0.00020	0.00020
	(!A1 * !A2 * !B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B0 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !A2 * !B0 * B1 * Y)	-0.00025	-0.00024	-0.00023

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI32X1P4H7H	**(A0 * A2 * B0 * B1 * !Y)**	-0.00014	-0.00012	-0.00009
	(A0 * A2 * B0 * B1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A2 * B0 * B1 * !Y)	0.00000	0.00001	0.00001
	(A0 * A2 * B0 * B1 * !Y)	0.00026	0.00026	0.00027
	(A0 * !A2 * B0 * B1 * !Y)	-0.00020	-0.00020	-0.00019
	(A0 * !A2 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * B0 * B1 * !Y)	0.00002	0.00002	0.00002
	(A0 * !A2 * B0 * B1 * !Y)	0.00022	0.00022	0.00022
	(A0 * !A2 * !B1 * Y)	-0.00020	-0.00020	-0.00020
	(A0 * !A2 * !B1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A2 * !B1 * Y)	0.00002	0.00002	0.00002
	(A0 * !A2 * !B1 * Y)	0.00022	0.00022	0.00022
	(A0 * !A2 * !B0 * B1 * Y)	-0.00020	-0.00020	-0.00019
	(A0 * !A2 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A2 * !B0 * B1 * Y)	0.00002	0.00002	0.00002
	(A0 * !A2 * !B0 * B1 * Y)	0.00022	0.00022	0.00022
	(!A0 * A2 * B0 * B1 * !Y)	-0.00020	-0.00020	-0.00019
	(!A0 * A2 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B0 * B1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * A2 * B0 * B1 * !Y)	0.00022	0.00022	0.00022
	(!A0 * A2 * !B1 * Y)	-0.00020	-0.00020	-0.00020
	(!A0 * A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * !B1 * Y)	0.00006	0.00006	0.00006
	(!A0 * A2 * !B1 * Y)	0.00006	0.00006	0.00006
	(!A0 * A2 * !B0 * B1 * Y)	-0.00020	-0.00020	-0.00020
	(!A0 * A2 * !B0 * B1 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * A2 * !B0 * B1 * Y)	0.00006	0.00006	0.00006
	(!A0 * A2 * !B0 * B1 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * B0 * B1 * !Y)	-0.00020	-0.00020	-0.00019
	(!A0 * !A2 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * B0 * B1 * !Y)	0.00007	0.00007	0.00007
	(!A0 * !A2 * B0 * B1 * !Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * !B1 * Y)	-0.00020	-0.00020	-0.00019
	(!A0 * !A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * !B1 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A2 * !B1 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * !B0 * B1 * Y)	-0.00020	-0.00020	-0.00019
	(!A0 * !A2 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * !B0 * B1 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A2 * !B0 * B1 * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI32X1P4H7H	**(A0 * A2 * B0 * B1 * !Y)**	0.00014	0.00014	0.00014
	(A0 * A2 * B0 * B1 * !Y)	0.00003	0.00003	0.00003
	(A0 * A2 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A2 * B0 * B1 * !Y)	-0.00026	-0.00026	-0.00026
	(A0 * !A2 * B0 * B1 * !Y)	0.00019	0.00020	0.00020
	(A0 * !A2 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * B0 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A2 * B0 * B1 * !Y)	-0.00022	-0.00021	-0.00019
	(A0 * !A2 * !B1 * Y)	0.00020	0.00020	0.00021
	(A0 * !A2 * !B1 * Y)	0.00000	0.00001	0.00001
	(A0 * !A2 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A2 * !B1 * Y)	-0.00022	-0.00021	-0.00019
	(A0 * !A2 * !B0 * B1 * Y)	0.00020	0.00020	0.00021
	(A0 * !A2 * !B0 * B1 * Y)	0.00000	0.00001	0.00001
	(A0 * !A2 * !B0 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A2 * !B0 * B1 * Y)	-0.00022	-0.00021	-0.00019
	(!A0 * A2 * B0 * B1 * !Y)	0.00019	0.00020	0.00020
	(!A0 * A2 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * B0 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A2 * B0 * B1 * !Y)	-0.00022	-0.00021	-0.00019
	(!A0 * A2 * !B1 * Y)	0.00020	0.00020	0.00020
	(!A0 * A2 * !B1 * Y)	0.00001	0.00001	0.00002
	(!A0 * A2 * !B1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * A2 * !B1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * A2 * !B0 * B1 * Y)	0.00020	0.00020	0.00020
	(!A0 * A2 * !B0 * B1 * Y)	0.00001	0.00001	0.00002
	(!A0 * A2 * !B0 * B1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * A2 * !B0 * B1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * B0 * B1 * !Y)	0.00019	0.00020	0.00020
	(!A0 * !A2 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A2 * B0 * B1 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A2 * B0 * B1 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * !B1 * Y)	0.00020	0.00020	0.00020
	(!A0 * !A2 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A2 * !B1 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A2 * !B1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * !B0 * B1 * Y)	0.00020	0.00020	0.00020
	(!A0 * !A2 * !B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A2 * !B0 * B1 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A2 * !B0 * B1 * Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X1P4H7H	(A0 * A1 * B0 * B1 * !Y)	-0.00015	-0.00012	-0.00010
	(A0 * A1 * B0 * B1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * B1 * !Y)	0.00030	0.00030	0.00030
	(!A1 * B0 * B1 * !Y)	-0.00020	-0.00020	-0.00020
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * B1 * !Y)	0.00025	0.00025	0.00025
	(!A1 * !B1 * Y)	-0.00032	-0.00031	-0.00031
	(!A1 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * Y)	0.00004	0.00004	0.00004
	(!A1 * !B1 * Y)	0.00006	0.00006	0.00006
	(!A1 * !B0 * B1 * Y)	-0.00032	-0.00031	-0.00031
	(!A1 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * Y)	0.00004	0.00004	0.00004
	(!A1 * !B0 * B1 * Y)	0.00006	0.00006	0.00006
	(!A0 * A1 * B0 * B1 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * B1 * !Y)	0.00002	0.00002	0.00003
	(!A0 * A1 * B0 * B1 * !Y)	0.00024	0.00024	0.00025
	(!A0 * A1 * !B1 * Y)	-0.00032	-0.00031	-0.00031
	(!A0 * A1 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * Y)	0.00003	0.00003	0.00004
	(!A0 * A1 * !B1 * Y)	0.00005	0.00006	0.00006
	(!A0 * A1 * !B0 * B1 * Y)	-0.00032	-0.00032	-0.00031
	(!A0 * A1 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * B1 * Y)	0.00004	0.00004	0.00004
	(!A0 * A1 * !B0 * B1 * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X1P4H7H	(A0 * A1 * B0 * B1 * !Y)	0.00014	0.00014	0.00015
	(A0 * A1 * B0 * B1 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B0 * B1 * !Y)	-0.00030	-0.00029	-0.00029
	(!A1 * B0 * B1 * !Y)	0.00020	0.00020	0.00020
	(!A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * B1 * !Y)	-0.00025	-0.00024	-0.00023
	(!A1 * !B1 * Y)	0.00031	0.00032	0.00032
	(!A1 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * !B1 * Y)	-0.00006	-0.00006	-0.00006
	(!A1 * !B0 * B1 * Y)	0.00031	0.00032	0.00032
	(!A1 * !B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * !B0 * B1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * A1 * B0 * B1 * !Y)	0.00020	0.00020	0.00020
	(!A0 * A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * B0 * B1 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * A1 * B0 * B1 * !Y)	-0.00025	-0.00023	-0.00020
	(!A0 * A1 * !B1 * Y)	0.00031	0.00032	0.00032
	(!A0 * A1 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * !B1 * Y)	-0.00006	-0.00006	-0.00005
	(!A0 * A1 * !B0 * B1 * Y)	0.00031	0.00032	0.00032
	(!A0 * A1 * !B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * B1 * Y)	-0.00004	-0.00003	-0.00003
	(!A0 * A1 * !B0 * B1 * Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X1P4H7H	(A0 * A1 * A2 * B1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * !Y)	-0.00005	-0.00005	-0.00004
	(A0 * A1 * A2 * B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * B1 * !Y)	0.00036	0.00036	0.00037
	(A0 * A1 * A2 * !B1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * A2 * !B1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * A2 * !B1 * !Y)	0.00033	0.00033	0.00033
	(!A2 * !B1 * Y)	-0.00023	-0.00023	-0.00023
	(!A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A2 * !B1 * Y)	0.00002	0.00002	0.00002
	(!A2 * !B1 * Y)	0.00023	0.00023	0.00024
	(!A1 * A2 * !B1 * Y)	-0.00023	-0.00023	-0.00023
	(!A1 * A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B1 * Y)	0.00002	0.00002	0.00002
	(!A1 * A2 * !B1 * Y)	0.00023	0.00023	0.00024
	(!A0 * A1 * A2 * !B1 * Y)	-0.00023	-0.00023	-0.00023
	(!A0 * A1 * A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * A2 * !B1 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * A2 * !B1 * Y)	0.00023	0.00023	0.00024

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X1P4H7H	(A0 * A1 * A2 * B1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * A2 * B1 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * A2 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * B1 * !Y)	-0.00036	-0.00036	-0.00035
	(A0 * A1 * A2 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * A2 * !B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * A2 * !B1 * !Y)	-0.00033	-0.00032	-0.00030
	(!A2 * !B1 * Y)	0.00023	0.00023	0.00024
	(!A2 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A2 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A2 * !B1 * Y)	-0.00023	-0.00022	-0.00020
	(!A1 * A2 * !B1 * Y)	0.00023	0.00023	0.00024
	(!A1 * A2 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * !B1 * Y)	-0.00023	-0.00022	-0.00020
	(!A0 * A1 * A2 * !B1 * Y)	0.00023	0.00023	0.00024
	(!A0 * A1 * A2 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * A2 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * A2 * !B1 * Y)	-0.00023	-0.00022	-0.00020

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X1P4H7H	(A0 * A1 * A2 * B0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * B0 * !Y)	0.00040	0.00040	0.00040
	(A0 * A1 * A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * A2 * !B0 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * A2 * !B0 * !Y)	0.00036	0.00036	0.00036
	(!A2 * !B0 * Y)	-0.00035	-0.00035	-0.00034
	(!A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A2 * !B0 * Y)	0.00004	0.00004	0.00004
	(!A2 * !B0 * Y)	0.00004	0.00004	0.00004
	(!A1 * A2 * !B0 * Y)	-0.00035	-0.00035	-0.00034
	(!A1 * A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * Y)	0.00004	0.00004	0.00004
	(!A1 * A2 * !B0 * Y)	0.00004	0.00004	0.00004
	(!A0 * A1 * A2 * !B0 * Y)	-0.00035	-0.00035	-0.00034
	(!A0 * A1 * A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * A2 * !B0 * Y)	0.00004	0.00004	0.00004
	(!A0 * A1 * A2 * !B0 * Y)	0.00004	0.00004	0.00004

Passive power(pJ) for B1 falling (conditional):

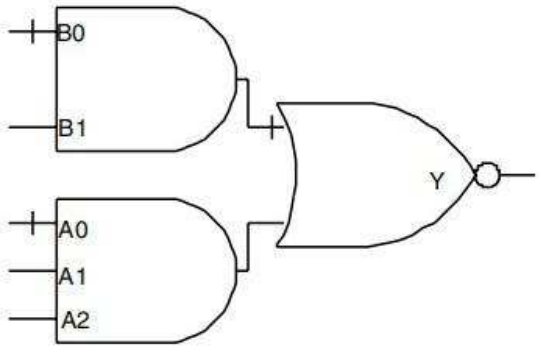
Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X1P4H7H	(A0 * A1 * A2 * B0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * !Y)	0.00004	0.00005	0.00005
	(A0 * A1 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * B0 * !Y)	-0.00040	-0.00040	-0.00039
	(A0 * A1 * A2 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * A2 * !B0 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * A2 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * A2 * !B0 * !Y)	-0.00036	-0.00035	-0.00033
	(!A2 * !B0 * Y)	0.00035	0.00035	0.00035
	(!A2 * !B0 * Y)	0.00001	0.00001	0.00002
	(!A2 * !B0 * Y)	-0.00004	-0.00004	-0.00004
	(!A2 * !B0 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * A2 * !B0 * Y)	0.00035	0.00035	0.00035
	(!A1 * A2 * !B0 * Y)	0.00001	0.00001	0.00002
	(!A1 * A2 * !B0 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * A2 * !B0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A1 * A2 * !B0 * Y)	0.00035	0.00035	0.00035
	(!A0 * A1 * A2 * !B0 * Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * A2 * !B0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A1 * A2 * !B0 * Y)	-0.00004	-0.00004	-0.00004

AOI32X2H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI32 cell provides the logical inverted OR of two AND groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT					OUTPUT
A0	A1	A2	B0	B1	Y
0	x	x	0	x	1
0	x	x	1	0	1
x	x	x	1	1	0
1	0	x	0	x	1
1	0	x	1	0	1
1	1	0	0	x	1
1	1	0	1	0	1
1	1	1	x	x	0

Footprint

Cell Name	Area
AOI32X2H7H	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	**A1**	**A2**	**B0**	**B1**	**Y**
AOI32X2H7H	0.00102	0.00105	0.00114	0.00116	0.00121	0.02646

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
AOI32X2H7H	0.00000	0.02672	0.05702

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI32X2H7H	A0->Y (FR)	0.06692	0.25133	0.76524
	A1->Y (FR)	0.06265	0.24543	0.75972
	A2->Y (FR)	0.05754	0.23889	0.75370
	B0->Y (FR)	0.05483	0.23250	0.74344
	B1->Y (FR)	0.04932	0.22543	0.73764

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI32X2H7H	A0->Y (RF)	0.06216	0.23219	0.70638
	A1->Y (RF)	0.05962	0.23404	0.73141
	A2->Y (RF)	0.05463	0.22324	0.71288
	B0->Y (RF)	0.03105	0.16532	0.58322
	B1->Y (RF)	0.02803	0.15764	0.58166

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI32X2H7H	A0	0.00241	0.00246	0.00248
	A0	-0.00030	-0.00030	-0.00030
	A0	0.00029	0.00030	0.00030
	A0	-0.00010	-0.00008	-0.00007
	A1	0.00224	0.00228	0.00230
	A1	-0.00030	-0.00030	-0.00030
	A1	0.00023	0.00023	0.00023
	A1	-0.00007	-0.00003	-0.00001
	A2	0.00204	0.00209	0.00213
	A2	-0.00030	-0.00030	-0.00030
	A2	0.00012	0.00016	0.00018
	A2	-0.00007	-0.00002	0.00002
	B0	0.00166	0.00176	0.00180
	B0	-0.00010	-0.00010	0.00000
	B0	0.00029	0.00030	0.00030
	B0	-0.00017	-0.00013	-0.00009
	B1	0.00148	0.00157	0.00162
	B1	-0.00011	-0.00010	0.00000
	B1	0.00022	0.00022	0.00023
	B1	-0.00013	-0.00008	-0.00003

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI32X2H7H	A0	-0.00016	-0.00013	-0.00010
	A0	0.00031	0.00032	0.00032
	A0	-0.00023	-0.00023	-0.00022
	A0	0.00237	0.00241	0.00244
	A1	-0.00016	-0.00013	-0.00010
	A1	0.00031	0.00031	0.00032
	A1	-0.00016	-0.00016	-0.00016
	A1	0.00207	0.00212	0.00215
	A2	-0.00018	-0.00014	-0.00011
	A2	0.00030	0.00030	0.00032
	A2	-0.00009	-0.00009	-0.00006
	A2	0.00178	0.00187	0.00191
	B0	-0.00015	-0.00010	0.00003
	B0	0.00010	0.00011	0.00030
	B0	-0.00016	-0.00016	-0.00016
	B0	0.00188	0.00193	0.00197
	B1	-0.00016	-0.00011	-0.00001
	B1	0.00000	0.00010	0.00011
	B1	-0.00009	-0.00009	-0.00008
	B1	0.00159	0.00163	0.00168

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI32X2H7H	**(A1 * A2 * B0 * B1 * !Y)**	-0.00017	-0.00014	-0.00011
	(A1 * A2 * B0 * B1 * !Y)	-0.00004	-0.00004	-0.00004
	(A1 * A2 * B0 * B1 * !Y)	0.00000	0.00001	0.00001
	(A1 * A2 * B0 * B1 * !Y)	0.00032	0.00032	0.00033
	(A1 * !A2 * B0 * B1 * !Y)	-0.00023	-0.00023	-0.00023
	(A1 * !A2 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * B1 * !Y)	0.00002	0.00003	0.00003
	(A1 * !A2 * B0 * B1 * !Y)	0.00026	0.00027	0.00027
	(A1 * !A2 * !B1 * Y)	-0.00023	-0.00023	-0.00023
	(A1 * !A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !B1 * Y)	0.00002	0.00002	0.00003
	(A1 * !A2 * !B1 * Y)	0.00027	0.00027	0.00027
	(A1 * !A2 * !B0 * B1 * Y)	-0.00023	-0.00023	-0.00023
	(A1 * !A2 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !B0 * B1 * Y)	0.00002	0.00002	0.00002
	(A1 * !A2 * !B0 * B1 * Y)	0.00026	0.00027	0.00027
	(!A1 * B0 * B1 * !Y)	-0.00023	-0.00023	-0.00023
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * B1 * !Y)	0.00027	0.00027	0.00028
	(!A1 * A2 * !B1 * Y)	-0.00023	-0.00023	-0.00023
	(!A1 * A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B1 * Y)	0.00002	0.00002	0.00002
	(!A1 * A2 * !B1 * Y)	0.00028	0.00028	0.00028
	(!A1 * A2 * !B0 * B1 * Y)	-0.00023	-0.00023	-0.00023
	(!A1 * A2 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * B1 * Y)	0.00002	0.00002	0.00002
	(!A1 * A2 * !B0 * B1 * Y)	0.00028	0.00028	0.00028
	(!A1 * !A2 * !B1 * Y)	-0.00023	-0.00023	-0.00023
	(!A1 * !A2 * !B1 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !A2 * !B1 * Y)	0.00002	0.00002	0.00002
	(!A1 * !A2 * !B1 * Y)	0.00027	0.00028	0.00028
	(!A1 * !A2 * !B0 * B1 * Y)	-0.00023	-0.00023	-0.00023
	(!A1 * !A2 * !B0 * B1 * Y)	-0.00002	-0.00001	-0.00001
	(!A1 * !A2 * !B0 * B1 * Y)	0.00002	0.00002	0.00002
	(!A1 * !A2 * !B0 * B1 * Y)	0.00027	0.00028	0.00028

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI32X2H7H	**(A1 * A2 * B0 * B1 * !Y)**	0.00017	0.00017	0.00017
	(A1 * A2 * B0 * B1 * !Y)	0.00004	0.00004	0.00004
	(A1 * A2 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * A2 * B0 * B1 * !Y)	-0.00032	-0.00032	-0.00032
	(A1 * !A2 * B0 * B1 * !Y)	0.00023	0.00023	0.00023
	(A1 * !A2 * B0 * B1 * !Y)	0.00001	0.00002	0.00002
	(A1 * !A2 * B0 * B1 * !Y)	-0.00003	-0.00002	-0.00002
	(A1 * !A2 * B0 * B1 * !Y)	-0.00027	-0.00025	-0.00023
	(A1 * !A2 * !B1 * Y)	0.00023	0.00023	0.00023
	(A1 * !A2 * !B1 * Y)	0.00001	0.00001	0.00002
	(A1 * !A2 * !B1 * Y)	-0.00003	-0.00002	-0.00002
	(A1 * !A2 * !B1 * Y)	-0.00027	-0.00025	-0.00023
	(A1 * !A2 * !B0 * B1 * Y)	0.00023	0.00023	0.00023
	(A1 * !A2 * !B0 * B1 * Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * !B0 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * !B0 * B1 * Y)	-0.00027	-0.00025	-0.00024
	(!A1 * B0 * B1 * !Y)	0.00023	0.00023	0.00023
	(!A1 * B0 * B1 * !Y)	0.00001	0.00002	0.00002
	(!A1 * B0 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * B1 * !Y)	-0.00028	-0.00026	-0.00025
	(!A1 * A2 * !B1 * Y)	0.00023	0.00023	0.00023
	(!A1 * A2 * !B1 * Y)	0.00001	0.00001	0.00002
	(!A1 * A2 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * !B1 * Y)	-0.00028	-0.00026	-0.00025
	(!A1 * A2 * !B0 * B1 * Y)	0.00023	0.00023	0.00023
	(!A1 * A2 * !B0 * B1 * Y)	0.00001	0.00001	0.00002
	(!A1 * A2 * !B0 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * !B0 * B1 * Y)	-0.00028	-0.00026	-0.00025
	(!A1 * !A2 * !B1 * Y)	0.00023	0.00023	0.00023
	(!A1 * !A2 * !B1 * Y)	0.00001	0.00002	0.00002
	(!A1 * !A2 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !A2 * !B1 * Y)	-0.00028	-0.00026	-0.00024
	(!A1 * !A2 * !B0 * B1 * Y)	0.00023	0.00023	0.00023
	(!A1 * !A2 * !B0 * B1 * Y)	0.00001	0.00002	0.00002
	(!A1 * !A2 * !B0 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !A2 * !B0 * B1 * Y)	-0.00028	-0.00026	-0.00024

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI32X2H7H	**(A0 * A2 * B0 * B1 * !Y)**	-0.00017	-0.00014	-0.00011
	(A0 * A2 * B0 * B1 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A2 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A2 * B0 * B1 * !Y)	0.00028	0.00029	0.00029
	(A0 * !A2 * B0 * B1 * !Y)	-0.00023	-0.00023	-0.00023
	(A0 * !A2 * B0 * B1 * !Y)	-0.00002	-0.00001	-0.00001
	(A0 * !A2 * B0 * B1 * !Y)	0.00002	0.00003	0.00003
	(A0 * !A2 * B0 * B1 * !Y)	0.00024	0.00024	0.00024
	(A0 * !A2 * !B1 * Y)	-0.00023	-0.00023	-0.00022
	(A0 * !A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B1 * Y)	0.00002	0.00002	0.00002
	(A0 * !A2 * !B1 * Y)	0.00024	0.00024	0.00024
	(A0 * !A2 * !B0 * B1 * Y)	-0.00023	-0.00023	-0.00022
	(A0 * !A2 * !B0 * B1 * Y)	-0.00002	-0.00001	-0.00001
	(A0 * !A2 * !B0 * B1 * Y)	0.00002	0.00002	0.00002
	(A0 * !A2 * !B0 * B1 * Y)	0.00024	0.00024	0.00024
	(!A0 * A2 * B0 * B1 * !Y)	-0.00023	-0.00023	-0.00023
	(!A0 * A2 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B0 * B1 * !Y)	0.00002	0.00002	0.00003
	(!A0 * A2 * B0 * B1 * !Y)	0.00024	0.00024	0.00024
	(!A0 * A2 * !B1 * Y)	-0.00023	-0.00023	-0.00023
	(!A0 * A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * !B1 * Y)	0.00007	0.00007	0.00007
	(!A0 * A2 * !B1 * Y)	0.00006	0.00006	0.00007
	(!A0 * A2 * !B0 * B1 * Y)	-0.00023	-0.00023	-0.00023
	(!A0 * A2 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * !B0 * B1 * Y)	0.00007	0.00007	0.00007
	(!A0 * A2 * !B0 * B1 * Y)	0.00006	0.00006	0.00007
	(!A0 * !A2 * B0 * B1 * !Y)	-0.00023	-0.00023	-0.00023
	(!A0 * !A2 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * B0 * B1 * !Y)	0.00008	0.00008	0.00008
	(!A0 * !A2 * B0 * B1 * !Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * !B1 * Y)	-0.00023	-0.00023	-0.00023
	(!A0 * !A2 * !B1 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !A2 * !B1 * Y)	0.00008	0.00008	0.00008
	(!A0 * !A2 * !B1 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * !B0 * B1 * Y)	-0.00023	-0.00023	-0.00023
	(!A0 * !A2 * !B0 * B1 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !A2 * !B0 * B1 * Y)	0.00008	0.00008	0.00008
	(!A0 * !A2 * !B0 * B1 * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI32X2H7H	**(A0 * A2 * B0 * B1 * !Y)**	0.00016	0.00016	0.00017
	(A0 * A2 * B0 * B1 * !Y)	0.00004	0.00004	0.00004
	(A0 * A2 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A2 * B0 * B1 * !Y)	-0.00029	-0.00028	-0.00028
	(A0 * !A2 * B0 * B1 * !Y)	0.00023	0.00023	0.00023
	(A0 * !A2 * B0 * B1 * !Y)	0.00001	0.00002	0.00002
	(A0 * !A2 * B0 * B1 * !Y)	-0.00003	-0.00003	-0.00002
	(A0 * !A2 * B0 * B1 * !Y)	-0.00024	-0.00023	-0.00021
	(A0 * !A2 * !B1 * Y)	0.00023	0.00023	0.00025
	(A0 * !A2 * !B1 * Y)	0.00001	0.00001	0.00002
	(A0 * !A2 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A2 * !B1 * Y)	-0.00024	-0.00023	-0.00021
	(A0 * !A2 * !B0 * B1 * Y)	0.00023	0.00023	0.00025
	(A0 * !A2 * !B0 * B1 * Y)	0.00001	0.00001	0.00002
	(A0 * !A2 * !B0 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A2 * !B0 * B1 * Y)	-0.00024	-0.00023	-0.00021
	(!A0 * A2 * B0 * B1 * !Y)	0.00023	0.00023	0.00023
	(!A0 * A2 * B0 * B1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * A2 * B0 * B1 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * A2 * B0 * B1 * !Y)	-0.00024	-0.00023	-0.00021
	(!A0 * A2 * !B1 * Y)	0.00023	0.00023	0.00023
	(!A0 * A2 * !B1 * Y)	0.00001	0.00001	0.00002
	(!A0 * A2 * !B1 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * A2 * !B1 * Y)	-0.00007	-0.00006	-0.00006
	(!A0 * A2 * !B0 * B1 * Y)	0.00023	0.00023	0.00023
	(!A0 * A2 * !B0 * B1 * Y)	0.00001	0.00002	0.00002
	(!A0 * A2 * !B0 * B1 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * A2 * !B0 * B1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * B0 * B1 * !Y)	0.00023	0.00023	0.00023
	(!A0 * !A2 * B0 * B1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A2 * B0 * B1 * !Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A2 * B0 * B1 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * !B1 * Y)	0.00023	0.00023	0.00024
	(!A0 * !A2 * !B1 * Y)	0.00001	0.00001	0.00002
	(!A0 * !A2 * !B1 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A2 * !B1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * !B0 * B1 * Y)	0.00023	0.00023	0.00023
	(!A0 * !A2 * !B0 * B1 * Y)	0.00001	0.00002	0.00002
	(!A0 * !A2 * !B0 * B1 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A2 * !B0 * B1 * Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X2H7H	(A0 * A1 * B0 * B1 * !Y)	-0.00017	-0.00015	-0.00011
	(A0 * A1 * B0 * B1 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * B1 * !Y)	0.00030	0.00030	0.00030
	(!A1 * B0 * B1 * !Y)	-0.00024	-0.00024	-0.00024
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * B1 * !Y)	0.00025	0.00025	0.00025
	(!A1 * !B1 * Y)	-0.00034	-0.00034	-0.00033
	(!A1 * !B1 * Y)	-0.00002	-0.00001	-0.00001
	(!A1 * !B1 * Y)	0.00004	0.00004	0.00004
	(!A1 * !B1 * Y)	0.00005	0.00006	0.00006
	(!A1 * !B0 * B1 * Y)	-0.00034	-0.00034	-0.00033
	(!A1 * !B0 * B1 * Y)	-0.00002	-0.00001	-0.00001
	(!A1 * !B0 * B1 * Y)	0.00004	0.00004	0.00004
	(!A1 * !B0 * B1 * Y)	0.00005	0.00006	0.00006
	(!A0 * A1 * B0 * B1 * !Y)	-0.00024	-0.00024	-0.00024
	(!A0 * A1 * B0 * B1 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * A1 * B0 * B1 * !Y)	0.00002	0.00002	0.00003
	(!A0 * A1 * B0 * B1 * !Y)	0.00024	0.00024	0.00024
	(!A0 * A1 * !B1 * Y)	-0.00034	-0.00034	-0.00034
	(!A0 * A1 * !B1 * Y)	-0.00001	-0.00002	-0.00001
	(!A0 * A1 * !B1 * Y)	0.00004	0.00004	0.00004
	(!A0 * A1 * !B1 * Y)	0.00005	0.00006	0.00006
	(!A0 * A1 * !B0 * B1 * Y)	-0.00034	-0.00034	-0.00034
	(!A0 * A1 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * B1 * Y)	0.00004	0.00004	0.00005
	(!A0 * A1 * !B0 * B1 * Y)	0.00005	0.00006	0.00006

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X2H7H	(A0 * A1 * B0 * B1 * !Y)	0.00017	0.00017	0.00017
	(A0 * A1 * B0 * B1 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B0 * B1 * !Y)	-0.00030	-0.00030	-0.00029
	(!A1 * B0 * B1 * !Y)	0.00024	0.00024	0.00024
	(!A1 * B0 * B1 * !Y)	0.00001	0.00002	0.00002
	(!A1 * B0 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * B1 * !Y)	-0.00025	-0.00024	-0.00022
	(!A1 * !B1 * Y)	0.00034	0.00034	0.00034
	(!A1 * !B1 * Y)	0.00001	0.00002	0.00002
	(!A1 * !B1 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * !B1 * Y)	-0.00006	-0.00006	-0.00005
	(!A1 * !B0 * B1 * Y)	0.00034	0.00034	0.00034
	(!A1 * !B0 * B1 * Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * B1 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * !B0 * B1 * Y)	-0.00006	-0.00006	-0.00005
	(!A0 * A1 * B0 * B1 * !Y)	0.00024	0.00024	0.00024
	(!A0 * A1 * B0 * B1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * B0 * B1 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * A1 * B0 * B1 * !Y)	-0.00024	-0.00022	-0.00019
	(!A0 * A1 * !B1 * Y)	0.00034	0.00034	0.00034
	(!A0 * A1 * !B1 * Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * !B1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A1 * !B1 * Y)	-0.00006	-0.00006	-0.00005
	(!A0 * A1 * !B0 * B1 * Y)	0.00034	0.00034	0.00034
	(!A0 * A1 * !B0 * B1 * Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * !B0 * B1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A1 * !B0 * B1 * Y)	-0.00006	-0.00006	-0.00005

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X2H7H	(A0 * A1 * A2 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * A2 * B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * B1 * !Y)	0.00043	0.00043	0.00044
	(A0 * A1 * A2 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * A2 * !B1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * A2 * !B1 * !Y)	0.00039	0.00040	0.00040
	(!A2 * !B1 * Y)	-0.00031	-0.00030	-0.00030
	(!A2 * !B1 * Y)	-0.00002	-0.00002	-0.00001
	(!A2 * !B1 * Y)	0.00002	0.00002	0.00002
	(!A2 * !B1 * Y)	0.00024	0.00024	0.00024
	(!A1 * A2 * !B1 * Y)	-0.00031	-0.00030	-0.00030
	(!A1 * A2 * !B1 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * A2 * !B1 * Y)	0.00002	0.00002	0.00002
	(!A1 * A2 * !B1 * Y)	0.00024	0.00024	0.00024
	(!A0 * A1 * A2 * !B1 * Y)	-0.00031	-0.00030	-0.00030
	(!A0 * A1 * A2 * !B1 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * A2 * !B1 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * A2 * !B1 * Y)	0.00024	0.00024	0.00024

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X2H7H	(A0 * A1 * A2 * B1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * A2 * B1 * !Y)	0.00005	0.00006	0.00006
	(A0 * A1 * A2 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * B1 * !Y)	-0.00043	-0.00043	-0.00042
	(A0 * A1 * A2 * !B1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * A2 * !B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * A2 * !B1 * !Y)	-0.00040	-0.00039	-0.00037
	(!A2 * !B1 * Y)	0.00030	0.00031	0.00031
	(!A2 * !B1 * Y)	0.00001	0.00002	0.00002
	(!A2 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A2 * !B1 * Y)	-0.00024	-0.00022	-0.00021
	(!A1 * A2 * !B1 * Y)	0.00031	0.00031	0.00031
	(!A1 * A2 * !B1 * Y)	0.00001	0.00002	0.00002
	(!A1 * A2 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * !B1 * Y)	-0.00024	-0.00022	-0.00021
	(!A0 * A1 * A2 * !B1 * Y)	0.00031	0.00031	0.00031
	(!A0 * A1 * A2 * !B1 * Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * A2 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * A2 * !B1 * Y)	-0.00024	-0.00022	-0.00021

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X2H7H	(A0 * A1 * A2 * B0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * B0 * !Y)	0.00040	0.00041	0.00041
	(A0 * A1 * A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * A2 * !B0 * !Y)	0.00002	0.00002	0.00003
	(A0 * A1 * A2 * !B0 * !Y)	0.00037	0.00037	0.00037
	(!A2 * !B0 * Y)	-0.00039	-0.00039	-0.00038
	(!A2 * !B0 * Y)	-0.00002	-0.00002	-0.00001
	(!A2 * !B0 * Y)	0.00004	0.00004	0.00004
	(!A2 * !B0 * Y)	0.00003	0.00003	0.00003
	(!A1 * A2 * !B0 * Y)	-0.00039	-0.00039	-0.00039
	(!A1 * A2 * !B0 * Y)	-0.00002	-0.00001	-0.00001
	(!A1 * A2 * !B0 * Y)	0.00004	0.00004	0.00005
	(!A1 * A2 * !B0 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * A2 * !B0 * Y)	-0.00039	-0.00039	-0.00039
	(!A0 * A1 * A2 * !B0 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * A1 * A2 * !B0 * Y)	0.00004	0.00005	0.00005
	(!A0 * A1 * A2 * !B0 * Y)	0.00003	0.00003	0.00003

Passive power(pJ) for B1 falling (conditional):

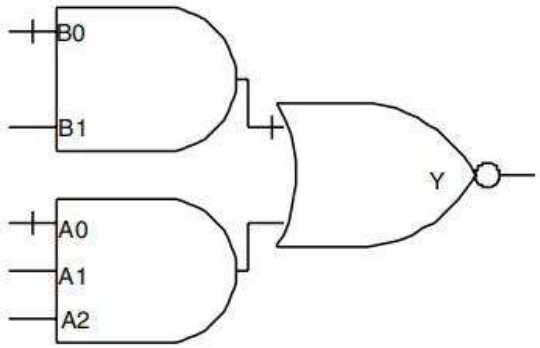
Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X2H7H	(A0 * A1 * A2 * B0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * A2 * B0 * !Y)	0.00005	0.00006	0.00006
	(A0 * A1 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * B0 * !Y)	-0.00041	-0.00040	-0.00040
	(A0 * A1 * A2 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * A2 * !B0 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * A2 * !B0 * !Y)	-0.00003	-0.00002	-0.00002
	(A0 * A1 * A2 * !B0 * !Y)	-0.00037	-0.00036	-0.00034
	(!A2 * !B0 * Y)	0.00039	0.00039	0.00039
	(!A2 * !B0 * Y)	0.00001	0.00002	0.00002
	(!A2 * !B0 * Y)	-0.00004	-0.00004	-0.00004
	(!A2 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * A2 * !B0 * Y)	0.00039	0.00039	0.00039
	(!A1 * A2 * !B0 * Y)	0.00001	0.00002	0.00002
	(!A1 * A2 * !B0 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * A2 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * A2 * !B0 * Y)	0.00039	0.00039	0.00039
	(!A0 * A1 * A2 * !B0 * Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * A2 * !B0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A1 * A2 * !B0 * Y)	-0.00003	-0.00003	-0.00003

AOI32X3H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI32 cell provides the logical inverted OR of two AND groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT					OUTPUT
A0	A1	A2	B0	B1	Y
0	x	x	0	x	1
0	x	x	1	0	1
x	x	x	1	1	0
1	0	x	0	x	1
1	0	x	1	0	1
1	1	0	0	x	1
1	1	0	1	0	1
1	1	1	x	x	0

Footprint

Cell Name	Area
AOI32X3H7H	4.76000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	**A1**	**A2**	**B0**	**B1**	**Y**
AOI32X3H7H	0.00181	0.00180	0.00202	0.00191	0.00198	0.04187

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
AOI32X3H7H	0.00000	0.03356	0.05967

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI32X3H7H	A0->Y (FR)	0.07123	0.25546	0.76688
	A1->Y (FR)	0.06574	0.24809	0.75981
	A2->Y (FR)	0.05917	0.23966	0.75103
	B0->Y (FR)	0.05680	0.23438	0.74329
	B1->Y (FR)	0.04933	0.22524	0.73631

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI32X3H7H	A0->Y (RF)	0.06491	0.23721	0.71322
	A1->Y (RF)	0.06198	0.23809	0.73940
	A2->Y (RF)	0.05522	0.22561	0.72146
	B0->Y (RF)	0.03102	0.16591	0.58192
	B1->Y (RF)	0.02717	0.15729	0.58473

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI32X3H7H	A0	0.00429	0.00437	0.00442
	A0	-0.00049	-0.00045	-0.00043
	A0	0.00045	0.00045	0.00045
	A0	-0.00008	-0.00003	0.00001
	A1	0.00393	0.00400	0.00405
	A1	-0.00047	-0.00045	-0.00043
	A1	0.00031	0.00035	0.00037
	A1	-0.00005	0.00002	0.00008
	A2	0.00353	0.00362	0.00369
	A2	-0.00053	-0.00045	-0.00045
	A2	0.00016	0.00024	0.00030
	A2	-0.00008	0.00002	0.00009
	B0	0.00298	0.00312	0.00319
	B0	-0.00015	-0.00015	-0.00013
	B0	0.00044	0.00045	0.00046
	B0	-0.00025	-0.00018	-0.00012
	B1	0.00261	0.00272	0.00281
	B1	-0.00016	-0.00015	-0.00013
	B1	0.00034	0.00034	0.00034
	B1	-0.00022	-0.00013	-0.00004

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI32X3H7H	A0	-0.00026	-0.00020	-0.00016
	A0	0.00044	0.00046	0.00049
	A0	-0.00034	-0.00034	-0.00032
	A0	0.00419	0.00427	0.00431
	A1	-0.00025	-0.00020	-0.00016
	A1	0.00047	0.00047	0.00048
	A1	-0.00024	-0.00024	-0.00020
	A1	0.00366	0.00373	0.00378
	A2	-0.00030	-0.00022	-0.00016
	A2	0.00045	0.00046	0.00054
	A2	-0.00014	-0.00013	-0.00012
	A2	0.00310	0.00324	0.00335
	B0	-0.00020	-0.00012	-0.00007
	B0	0.00014	0.00015	0.00026
	B0	-0.00027	-0.00024	-0.00021
	B0	0.00339	0.00349	0.00355
	B1	-0.00022	-0.00013	-0.00006
	B1	0.00014	0.00015	0.00016
	B1	-0.00014	-0.00013	-0.00012
	B1	0.00286	0.00294	0.00301

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI32X3H7H	**(A1 * A2 * B0 * B1 * !Y)**	-0.00027	-0.00023	-0.00017
	(A1 * A2 * B0 * B1 * !Y)	-0.00006	-0.00006	-0.00006
	(A1 * A2 * B0 * B1 * !Y)	0.00001	0.00001	0.00003
	(A1 * A2 * B0 * B1 * !Y)	0.00061	0.00062	0.00062
	(A1 * !A2 * B0 * B1 * !Y)	-0.00038	-0.00038	-0.00037
	(A1 * !A2 * B0 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * B0 * B1 * !Y)	0.00003	0.00004	0.00004
	(A1 * !A2 * B0 * B1 * !Y)	0.00048	0.00049	0.00049
	(A1 * !A2 * !B1 * Y)	-0.00039	-0.00038	-0.00038
	(A1 * !A2 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * !B1 * Y)	0.00004	0.00004	0.00004
	(A1 * !A2 * !B1 * Y)	0.00048	0.00048	0.00049
	(A1 * !A2 * !B0 * B1 * Y)	-0.00039	-0.00038	-0.00038
	(A1 * !A2 * !B0 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * !B0 * B1 * Y)	0.00004	0.00004	0.00004
	(A1 * !A2 * !B0 * B1 * Y)	0.00048	0.00048	0.00049
	(!A1 * B0 * B1 * !Y)	-0.00038	-0.00038	-0.00037
	(!A1 * B0 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * B1 * !Y)	0.00004	0.00004	0.00004
	(!A1 * B0 * B1 * !Y)	0.00050	0.00051	0.00051
	(!A1 * A2 * !B1 * Y)	-0.00038	-0.00038	-0.00038
	(!A1 * A2 * !B1 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * A2 * !B1 * Y)	0.00004	0.00004	0.00004
	(!A1 * A2 * !B1 * Y)	0.00050	0.00050	0.00051
	(!A1 * A2 * !B0 * B1 * Y)	-0.00038	-0.00038	-0.00038
	(!A1 * A2 * !B0 * B1 * Y)	-0.00003	-0.00002	-0.00002
	(!A1 * A2 * !B0 * B1 * Y)	0.00003	0.00004	0.00004
	(!A1 * A2 * !B0 * B1 * Y)	0.00049	0.00050	0.00050
	(!A1 * !A2 * !B1 * Y)	-0.00039	-0.00038	-0.00038
	(!A1 * !A2 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !A2 * !B1 * Y)	0.00004	0.00004	0.00004
	(!A1 * !A2 * !B1 * Y)	0.00049	0.00049	0.00050
	(!A1 * !A2 * !B0 * B1 * Y)	-0.00039	-0.00038	-0.00038
	(!A1 * !A2 * !B0 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !A2 * !B0 * B1 * Y)	0.00004	0.00004	0.00004
	(!A1 * !A2 * !B0 * B1 * Y)	0.00049	0.00049	0.00050

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI32X3H7H	**(A1 * A2 * B0 * B1 * !Y)**	0.00026	0.00026	0.00027
	(A1 * A2 * B0 * B1 * !Y)	0.00006	0.00006	0.00006
	(A1 * A2 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B0 * B1 * !Y)	-0.00061	-0.00061	-0.00060
	(A1 * !A2 * B0 * B1 * !Y)	0.00037	0.00038	0.00038
	(A1 * !A2 * B0 * B1 * !Y)	0.00002	0.00002	0.00002
	(A1 * !A2 * B0 * B1 * !Y)	-0.00004	-0.00004	-0.00003
	(A1 * !A2 * B0 * B1 * !Y)	-0.00049	-0.00046	-0.00041
	(A1 * !A2 * !B1 * Y)	0.00038	0.00039	0.00039
	(A1 * !A2 * !B1 * Y)	0.00002	0.00002	0.00002
	(A1 * !A2 * !B1 * Y)	-0.00004	-0.00004	-0.00004
	(A1 * !A2 * !B1 * Y)	-0.00049	-0.00045	-0.00040
	(A1 * !A2 * !B0 * B1 * Y)	0.00039	0.00039	0.00039
	(A1 * !A2 * !B0 * B1 * Y)	0.00002	0.00002	0.00002
	(A1 * !A2 * !B0 * B1 * Y)	-0.00004	-0.00004	-0.00004
	(A1 * !A2 * !B0 * B1 * Y)	-0.00049	-0.00045	-0.00040
	(!A1 * B0 * B1 * !Y)	0.00037	0.00038	0.00038
	(!A1 * B0 * B1 * !Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * B1 * !Y)	-0.00004	-0.00004	-0.00003
	(!A1 * B0 * B1 * !Y)	-0.00051	-0.00048	-0.00044
	(!A1 * A2 * !B1 * Y)	0.00038	0.00039	0.00039
	(!A1 * A2 * !B1 * Y)	0.00002	0.00003	0.00003
	(!A1 * A2 * !B1 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * A2 * !B1 * Y)	-0.00050	-0.00047	-0.00043
	(!A1 * A2 * !B0 * B1 * Y)	0.00038	0.00039	0.00039
	(!A1 * A2 * !B0 * B1 * Y)	0.00002	0.00003	0.00003
	(!A1 * A2 * !B0 * B1 * Y)	-0.00004	-0.00004	-0.00003
	(!A1 * A2 * !B0 * B1 * Y)	-0.00050	-0.00047	-0.00043
	(!A1 * !A2 * !B1 * Y)	0.00038	0.00039	0.00039
	(!A1 * !A2 * !B1 * Y)	0.00002	0.00003	0.00003
	(!A1 * !A2 * !B1 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * !A2 * !B1 * Y)	-0.00050	-0.00047	-0.00042
	(!A1 * !A2 * !B0 * B1 * Y)	0.00038	0.00039	0.00039
	(!A1 * !A2 * !B0 * B1 * Y)	0.00002	0.00003	0.00003
	(!A1 * !A2 * !B0 * B1 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * !A2 * !B0 * B1 * Y)	-0.00050	-0.00047	-0.00042

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI32X3H7H	**(A0 * A2 * B0 * B1 * !Y)**	-0.00027	-0.00023	-0.00017
	(A0 * A2 * B0 * B1 * !Y)	-0.00007	-0.00006	-0.00006
	(A0 * A2 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A2 * B0 * B1 * !Y)	0.00060	0.00060	0.00061
	(A0 * !A2 * B0 * B1 * !Y)	-0.00038	-0.00037	-0.00037
	(A0 * !A2 * B0 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A2 * B0 * B1 * !Y)	0.00002	0.00003	0.00004
	(A0 * !A2 * B0 * B1 * !Y)	0.00050	0.00051	0.00051
	(A0 * !A2 * !B1 * Y)	-0.00038	-0.00038	-0.00038
	(A0 * !A2 * !B1 * Y)	-0.00003	-0.00002	-0.00000
	(A0 * !A2 * !B1 * Y)	0.00003	0.00003	0.00004
	(A0 * !A2 * !B1 * Y)	0.00051	0.00051	0.00051
	(A0 * !A2 * !B0 * B1 * Y)	-0.00038	-0.00038	-0.00038
	(A0 * !A2 * !B0 * B1 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * !A2 * !B0 * B1 * Y)	0.00003	0.00003	0.00003
	(A0 * !A2 * !B0 * B1 * Y)	0.00050	0.00051	0.00051
	(!A0 * A2 * B0 * B1 * !Y)	-0.00038	-0.00038	-0.00037
	(!A0 * A2 * B0 * B1 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * A2 * B0 * B1 * !Y)	0.00003	0.00004	0.00004
	(!A0 * A2 * B0 * B1 * !Y)	0.00048	0.00049	0.00049
	(!A0 * A2 * !B1 * Y)	-0.00040	-0.00040	-0.00040
	(!A0 * A2 * !B1 * Y)	-0.00003	-0.00002	-0.00002
	(!A0 * A2 * !B1 * Y)	0.00010	0.00010	0.00011
	(!A0 * A2 * !B1 * Y)	0.00015	0.00015	0.00015
	(!A0 * A2 * !B0 * B1 * Y)	-0.00040	-0.00040	-0.00040
	(!A0 * A2 * !B0 * B1 * Y)	-0.00003	-0.00002	-0.00002
	(!A0 * A2 * !B0 * B1 * Y)	0.00010	0.00010	0.00011
	(!A0 * A2 * !B0 * B1 * Y)	0.00015	0.00015	0.00015
	(!A0 * !A2 * B0 * B1 * !Y)	-0.00038	-0.00038	-0.00038
	(!A0 * !A2 * B0 * B1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A2 * B0 * B1 * !Y)	0.00012	0.00012	0.00012
	(!A0 * !A2 * B0 * B1 * !Y)	0.00017	0.00017	0.00017
	(!A0 * !A2 * !B1 * Y)	-0.00041	-0.00040	-0.00040
	(!A0 * !A2 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A2 * !B1 * Y)	0.00012	0.00012	0.00012
	(!A0 * !A2 * !B1 * Y)	0.00014	0.00015	0.00015
	(!A0 * !A2 * !B0 * B1 * Y)	-0.00041	-0.00040	-0.00040
	(!A0 * !A2 * !B0 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A2 * !B0 * B1 * Y)	0.00012	0.00012	0.00012
	(!A0 * !A2 * !B0 * B1 * Y)	0.00014	0.00015	0.00015

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI32X3H7H	**(A0 * A2 * B0 * B1 * !Y)**	0.00026	0.00026	0.00027
	(A0 * A2 * B0 * B1 * !Y)	0.00006	0.00006	0.00007
	(A0 * A2 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A2 * B0 * B1 * !Y)	-0.00060	-0.00060	-0.00060
	(A0 * !A2 * B0 * B1 * !Y)	0.00037	0.00038	0.00038
	(A0 * !A2 * B0 * B1 * !Y)	0.00002	0.00003	0.00003
	(A0 * !A2 * B0 * B1 * !Y)	-0.00004	-0.00003	-0.00002
	(A0 * !A2 * B0 * B1 * !Y)	-0.00051	-0.00049	-0.00045
	(A0 * !A2 * !B1 * Y)	0.00038	0.00039	0.00041
	(A0 * !A2 * !B1 * Y)	0.00002	0.00002	0.00003
	(A0 * !A2 * !B1 * Y)	-0.00004	-0.00003	-0.00003
	(A0 * !A2 * !B1 * Y)	-0.00051	-0.00048	-0.00042
	(A0 * !A2 * !B0 * B1 * Y)	0.00038	0.00039	0.00041
	(A0 * !A2 * !B0 * B1 * Y)	0.00002	0.00002	0.00003
	(A0 * !A2 * !B0 * B1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * !A2 * !B0 * B1 * Y)	-0.00051	-0.00048	-0.00042
	(!A0 * A2 * B0 * B1 * !Y)	0.00038	0.00038	0.00038
	(!A0 * A2 * B0 * B1 * !Y)	0.00002	0.00003	0.00003
	(!A0 * A2 * B0 * B1 * !Y)	-0.00004	-0.00004	-0.00003
	(!A0 * A2 * B0 * B1 * !Y)	-0.00049	-0.00046	-0.00043
	(!A0 * A2 * !B1 * Y)	0.00040	0.00041	0.00041
	(!A0 * A2 * !B1 * Y)	0.00002	0.00003	0.00003
	(!A0 * A2 * !B1 * Y)	-0.00010	-0.00010	-0.00010
	(!A0 * A2 * !B1 * Y)	-0.00015	-0.00015	-0.00014
	(!A0 * A2 * !B0 * B1 * Y)	0.00040	0.00041	0.00041
	(!A0 * A2 * !B0 * B1 * Y)	0.00002	0.00003	0.00003
	(!A0 * A2 * !B0 * B1 * Y)	-0.00010	-0.00010	-0.00010
	(!A0 * A2 * !B0 * B1 * Y)	-0.00015	-0.00015	-0.00014
	(!A0 * !A2 * B0 * B1 * !Y)	0.00038	0.00038	0.00038
	(!A0 * !A2 * B0 * B1 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !A2 * B0 * B1 * !Y)	-0.00012	-0.00012	-0.00012
	(!A0 * !A2 * B0 * B1 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !A2 * !B1 * Y)	0.00041	0.00041	0.00041
	(!A0 * !A2 * !B1 * Y)	0.00002	0.00002	0.00003
	(!A0 * !A2 * !B1 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * !A2 * !B1 * Y)	-0.00015	-0.00015	-0.00014
	(!A0 * !A2 * !B0 * B1 * Y)	0.00041	0.00041	0.00041
	(!A0 * !A2 * !B0 * B1 * Y)	0.00002	0.00002	0.00003
	(!A0 * !A2 * !B0 * B1 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * !A2 * !B0 * B1 * Y)	-0.00015	-0.00015	-0.00014

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X3H7H	(A0 * A1 * B0 * B1 * !Y)	-0.00027	-0.00023	-0.00017
	(A0 * A1 * B0 * B1 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * B1 * !Y)	0.00062	0.00063	0.00063
	(!A1 * B0 * B1 * !Y)	-0.00039	-0.00039	-0.00038
	(!A1 * B0 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * B1 * !Y)	0.00002	0.00003	0.00004
	(!A1 * B0 * B1 * !Y)	0.00053	0.00053	0.00053
	(!A1 * !B1 * Y)	-0.00062	-0.00061	-0.00061
	(!A1 * !B1 * Y)	-0.00003	-0.00002	-0.00002
	(!A1 * !B1 * Y)	0.00005	0.00006	0.00006
	(!A1 * !B1 * Y)	0.00015	0.00015	0.00016
	(!A1 * !B0 * B1 * Y)	-0.00062	-0.00061	-0.00061
	(!A1 * !B0 * B1 * Y)	-0.00003	-0.00002	-0.00002
	(!A1 * !B0 * B1 * Y)	0.00006	0.00006	0.00006
	(!A1 * !B0 * B1 * Y)	0.00015	0.00015	0.00015
	(!A0 * A1 * B0 * B1 * !Y)	-0.00039	-0.00039	-0.00038
	(!A0 * A1 * B0 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * B0 * B1 * !Y)	0.00004	0.00004	0.00005
	(!A0 * A1 * B0 * B1 * !Y)	0.00050	0.00051	0.00051
	(!A0 * A1 * !B1 * Y)	-0.00062	-0.00061	-0.00061
	(!A0 * A1 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B1 * Y)	0.00006	0.00006	0.00007
	(!A0 * A1 * !B1 * Y)	0.00012	0.00013	0.00014
	(!A0 * A1 * !B0 * B1 * Y)	-0.00062	-0.00061	-0.00061
	(!A0 * A1 * !B0 * B1 * Y)	-0.00003	-0.00002	-0.00002
	(!A0 * A1 * !B0 * B1 * Y)	0.00006	0.00006	0.00006
	(!A0 * A1 * !B0 * B1 * Y)	0.00013	0.00014	0.00014

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X3H7H	(A0 * A1 * B0 * B1 * !Y)	0.00027	0.00027	0.00027
	(A0 * A1 * B0 * B1 * !Y)	0.00006	0.00006	0.00006
	(A0 * A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B0 * B1 * !Y)	-0.00062	-0.00062	-0.00061
	(!A1 * B0 * B1 * !Y)	0.00038	0.00039	0.00039
	(!A1 * B0 * B1 * !Y)	0.00002	0.00003	0.00003
	(!A1 * B0 * B1 * !Y)	-0.00004	-0.00003	-0.00002
	(!A1 * B0 * B1 * !Y)	-0.00053	-0.00051	-0.00047
	(!A1 * !B1 * Y)	0.00061	0.00062	0.00062
	(!A1 * !B1 * Y)	0.00002	0.00003	0.00003
	(!A1 * !B1 * Y)	-0.00006	-0.00006	-0.00005
	(!A1 * !B1 * Y)	-0.00015	-0.00015	-0.00015
	(!A1 * !B0 * B1 * Y)	0.00061	0.00062	0.00062
	(!A1 * !B0 * B1 * Y)	0.00002	0.00003	0.00003
	(!A1 * !B0 * B1 * Y)	-0.00006	-0.00006	-0.00006
	(!A1 * !B0 * B1 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * A1 * B0 * B1 * !Y)	0.00039	0.00039	0.00039
	(!A0 * A1 * B0 * B1 * !Y)	0.00002	0.00003	0.00003
	(!A0 * A1 * B0 * B1 * !Y)	-0.00005	-0.00004	-0.00004
	(!A0 * A1 * B0 * B1 * !Y)	-0.00051	-0.00047	-0.00042
	(!A0 * A1 * !B1 * Y)	0.00061	0.00062	0.00062
	(!A0 * A1 * !B1 * Y)	0.00002	0.00003	0.00003
	(!A0 * A1 * !B1 * Y)	-0.00006	-0.00006	-0.00005
	(!A0 * A1 * !B1 * Y)	-0.00014	-0.00013	-0.00012
	(!A0 * A1 * !B0 * B1 * Y)	0.00061	0.00062	0.00062
	(!A0 * A1 * !B0 * B1 * Y)	0.00002	0.00003	0.00003
	(!A0 * A1 * !B0 * B1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * A1 * !B0 * B1 * Y)	-0.00014	-0.00014	-0.00013

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X3H7H	(A0 * A1 * A2 * B1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * A2 * B1 * !Y)	-0.00008	-0.00007	-0.00007
	(A0 * A1 * A2 * B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * B1 * !Y)	0.00077	0.00078	0.00078
	(A0 * A1 * A2 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !Y)	-0.00007	-0.00007	-0.00007
	(A0 * A1 * A2 * !B1 * !Y)	0.00003	0.00003	0.00004
	(A0 * A1 * A2 * !B1 * !Y)	0.00069	0.00070	0.00070
	(!A2 * !B1 * Y)	-0.00044	-0.00044	-0.00043
	(!A2 * !B1 * Y)	-0.00003	-0.00003	-0.00002
	(!A2 * !B1 * Y)	0.00003	0.00004	0.00004
	(!A2 * !B1 * Y)	0.00047	0.00047	0.00047
	(!A1 * A2 * !B1 * Y)	-0.00044	-0.00044	-0.00043
	(!A1 * A2 * !B1 * Y)	-0.00003	-0.00003	-0.00002
	(!A1 * A2 * !B1 * Y)	0.00003	0.00003	0.00004
	(!A1 * A2 * !B1 * Y)	0.00047	0.00047	0.00047
	(!A0 * A1 * A2 * !B1 * Y)	-0.00044	-0.00044	-0.00043
	(!A0 * A1 * A2 * !B1 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * A1 * A2 * !B1 * Y)	0.00003	0.00003	0.00004
	(!A0 * A1 * A2 * !B1 * Y)	0.00047	0.00047	0.00047

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X3H7H	(A0 * A1 * A2 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * !Y)	0.00008	0.00008	0.00008
	(A0 * A1 * A2 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * B1 * !Y)	-0.00078	-0.00077	-0.00077
	(A0 * A1 * A2 * !B1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !Y)	0.00007	0.00007	0.00007
	(A0 * A1 * A2 * !B1 * !Y)	-0.00004	-0.00003	-0.00003
	(A0 * A1 * A2 * !B1 * !Y)	-0.00070	-0.00068	-0.00064
	(!A2 * !B1 * Y)	0.00044	0.00045	0.00046
	(!A2 * !B1 * Y)	0.00002	0.00003	0.00003
	(!A2 * !B1 * Y)	-0.00004	-0.00004	-0.00003
	(!A2 * !B1 * Y)	-0.00047	-0.00044	-0.00039
	(!A1 * A2 * !B1 * Y)	0.00044	0.00045	0.00046
	(!A1 * A2 * !B1 * Y)	0.00002	0.00003	0.00003
	(!A1 * A2 * !B1 * Y)	-0.00004	-0.00003	-0.00003
	(!A1 * A2 * !B1 * Y)	-0.00047	-0.00044	-0.00040
	(!A0 * A1 * A2 * !B1 * Y)	0.00044	0.00045	0.00046
	(!A0 * A1 * A2 * !B1 * Y)	0.00002	0.00003	0.00003
	(!A0 * A1 * A2 * !B1 * Y)	-0.00004	-0.00003	-0.00003
	(!A0 * A1 * A2 * !B1 * Y)	-0.00047	-0.00044	-0.00040

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X3H7H	(A0 * A1 * A2 * B0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * A2 * B0 * !Y)	-0.00007	-0.00007	-0.00007
	(A0 * A1 * A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * B0 * !Y)	0.00076	0.00076	0.00076
	(A0 * A1 * A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * !Y)	-0.00007	-0.00007	-0.00007
	(A0 * A1 * A2 * !B0 * !Y)	0.00003	0.00003	0.00004
	(A0 * A1 * A2 * !B0 * !Y)	0.00068	0.00069	0.00069
	(!A2 * !B0 * Y)	-0.00064	-0.00064	-0.00063
	(!A2 * !B0 * Y)	-0.00003	-0.00002	-0.00002
	(!A2 * !B0 * Y)	0.00006	0.00006	0.00006
	(!A2 * !B0 * Y)	0.00009	0.00009	0.00009
	(!A1 * A2 * !B0 * Y)	-0.00064	-0.00064	-0.00063
	(!A1 * A2 * !B0 * Y)	-0.00003	-0.00002	-0.00002
	(!A1 * A2 * !B0 * Y)	0.00006	0.00006	0.00006
	(!A1 * A2 * !B0 * Y)	0.00008	0.00009	0.00009
	(!A0 * A1 * A2 * !B0 * Y)	-0.00065	-0.00064	-0.00063
	(!A0 * A1 * A2 * !B0 * Y)	-0.00003	-0.00002	-0.00002
	(!A0 * A1 * A2 * !B0 * Y)	0.00006	0.00006	0.00006
	(!A0 * A1 * A2 * !B0 * Y)	0.00009	0.00009	0.00009

Passive power(pJ) for B1 falling (conditional):

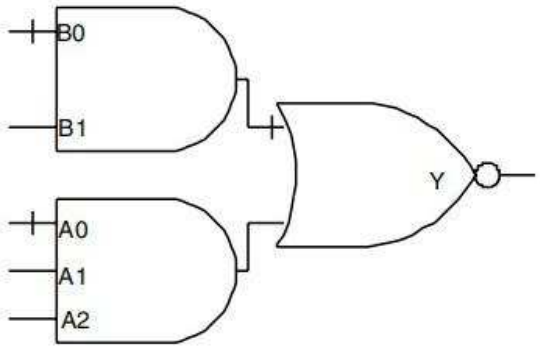
Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X3H7H	(A0 * A1 * A2 * B0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * !Y)	0.00007	0.00007	0.00008
	(A0 * A1 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * B0 * !Y)	-0.00076	-0.00076	-0.00075
	(A0 * A1 * A2 * !B0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * !Y)	0.00007	0.00007	0.00007
	(A0 * A1 * A2 * !B0 * !Y)	-0.00004	-0.00003	-0.00003
	(A0 * A1 * A2 * !B0 * !Y)	-0.00069	-0.00066	-0.00062
	(!A2 * !B0 * Y)	0.00064	0.00064	0.00064
	(!A2 * !B0 * Y)	0.00003	0.00003	0.00003
	(!A2 * !B0 * Y)	-0.00006	-0.00006	-0.00005
	(!A2 * !B0 * Y)	-0.00009	-0.00009	-0.00009
	(!A1 * A2 * !B0 * Y)	0.00064	0.00064	0.00064
	(!A1 * A2 * !B0 * Y)	0.00002	0.00003	0.00003
	(!A1 * A2 * !B0 * Y)	-0.00006	-0.00005	-0.00005
	(!A1 * A2 * !B0 * Y)	-0.00009	-0.00009	-0.00008
	(!A0 * A1 * A2 * !B0 * Y)	0.00064	0.00064	0.00065
	(!A0 * A1 * A2 * !B0 * Y)	0.00002	0.00003	0.00003
	(!A0 * A1 * A2 * !B0 * Y)	-0.00006	-0.00006	-0.00005
	(!A0 * A1 * A2 * !B0 * Y)	-0.00009	-0.00009	-0.00009

AOI32X4H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI32 cell provides the logical inverted OR of two AND groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT					OUTPUT
A0	A1	A2	B0	B1	Y
0	x	x	0	x	1
0	x	x	1	0	1
x	x	x	1	1	0
1	0	x	0	x	1
1	0	x	1	0	1
1	1	0	0	x	1
1	1	0	1	0	1
1	1	1	x	x	0

Footprint

Cell Name	Area
AOI32X4H7H	5.32000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	**A1**	**A2**	**B0**	**B1**	**Y**
AOI32X4H7H	0.00208	0.00208	0.00233	0.00221	0.00229	0.05278

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
AOI32X4H7H	0.00000	0.05364	0.11405

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI32X4H7H	A0->Y (FR)	0.06569	0.25158	0.76899
	A1->Y (FR)	0.06063	0.24454	0.76180
	A2->Y (FR)	0.05439	0.23653	0.75394
	B0->Y (FR)	0.05214	0.23134	0.74716
	B1->Y (FR)	0.04516	0.22261	0.73836

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI32X4H7H	A0->Y (RF)	0.06021	0.23332	0.71437
	A1->Y (RF)	0.05722	0.23382	0.73874
	A2->Y (RF)	0.05092	0.22153	0.71877
	B0->Y (RF)	0.02845	0.16362	0.58362
	B1->Y (RF)	0.02470	0.15473	0.58496

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI32X4H7H	A0	0.00503	0.00513	0.00519
	A0	-0.00061	-0.00060	-0.00057
	A0	0.00058	0.00059	0.00060
	A0	-0.00020	-0.00015	-0.00010
	A1	0.00461	0.00469	0.00475
	A1	-0.00063	-0.00060	-0.00056
	A1	0.00039	0.00046	0.00047
	A1	-0.00017	-0.00009	-0.00002
	A2	0.00413	0.00424	0.00432
	A2	-0.00060	-0.00060	-0.00059
	A2	0.00029	0.00032	0.00034
	A2	-0.00021	-0.00010	0.00001
	B0	0.00350	0.00365	0.00374
	B0	-0.00021	-0.00020	-0.00018
	B0	0.00058	0.00059	0.00059
	B0	-0.00033	-0.00025	-0.00018
	B1	0.00299	0.00317	0.00328
	B1	-0.00021	-0.00020	-0.00017
	B1	0.00042	0.00045	0.00049
	B1	-0.00032	-0.00020	-0.00010

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI32X4H7H	A0	-0.00033	-0.00026	-0.00021
	A0	0.00062	0.00063	0.00063
	A0	-0.00047	-0.00045	-0.00044
	A0	0.00502	0.00509	0.00514
	A1	-0.00032	-0.00025	-0.00021
	A1	0.00062	0.00063	0.00063
	A1	-0.00032	-0.00032	-0.00026
	A1	0.00438	0.00445	0.00451
	A2	-0.00037	-0.00028	-0.00021
	A2	0.00062	0.00063	0.00063
	A2	-0.00018	-0.00017	-0.00014
	A2	0.00369	0.00387	0.00396
	B0	-0.00028	-0.00018	-0.00011
	B0	0.00020	0.00020	0.00021
	B0	-0.00032	-0.00032	-0.00028
	B0	0.00394	0.00409	0.00416
	B1	-0.00030	-0.00018	-0.00010
	B1	0.00019	0.00020	0.00022
	B1	-0.00018	-0.00017	-0.00010
	B1	0.00334	0.00344	0.00353

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI32X4H7H	**(A1 * A2 * B0 * B1 * !Y)**	-0.00034	-0.00029	-0.00023
	(A1 * A2 * B0 * B1 * !Y)	-0.00008	-0.00008	-0.00008
	(A1 * A2 * B0 * B1 * !Y)	0.00001	0.00001	0.00002
	(A1 * A2 * B0 * B1 * !Y)	0.00067	0.00068	0.00069
	(A1 * !A2 * B0 * B1 * !Y)	-0.00047	-0.00047	-0.00047
	(A1 * !A2 * B0 * B1 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * !A2 * B0 * B1 * !Y)	0.00005	0.00005	0.00005
	(A1 * !A2 * B0 * B1 * !Y)	0.00053	0.00054	0.00054
	(A1 * !A2 * !B1 * Y)	-0.00048	-0.00048	-0.00047
	(A1 * !A2 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * !A2 * !B1 * Y)	0.00005	0.00005	0.00005
	(A1 * !A2 * !B1 * Y)	0.00053	0.00053	0.00054
	(A1 * !A2 * !B0 * B1 * Y)	-0.00048	-0.00048	-0.00047
	(A1 * !A2 * !B0 * B1 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * !A2 * !B0 * B1 * Y)	0.00005	0.00005	0.00005
	(A1 * !A2 * !B0 * B1 * Y)	0.00053	0.00053	0.00054
	(!A1 * B0 * B1 * !Y)	-0.00047	-0.00047	-0.00047
	(!A1 * B0 * B1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1 * B0 * B1 * !Y)	0.00005	0.00005	0.00005
	(!A1 * B0 * B1 * !Y)	0.00055	0.00056	0.00056
	(!A1 * A2 * !B1 * Y)	-0.00048	-0.00048	-0.00047
	(!A1 * A2 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * A2 * !B1 * Y)	0.00004	0.00005	0.00005
	(!A1 * A2 * !B1 * Y)	0.00055	0.00056	0.00056
	(!A1 * A2 * !B0 * B1 * Y)	-0.00048	-0.00048	-0.00047
	(!A1 * A2 * !B0 * B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * A2 * !B0 * B1 * Y)	0.00004	0.00005	0.00005
	(!A1 * A2 * !B0 * B1 * Y)	0.00055	0.00056	0.00056
	(!A1 * !A2 * !B1 * Y)	-0.00048	-0.00048	-0.00047
	(!A1 * !A2 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !A2 * !B1 * Y)	0.00005	0.00005	0.00005
	(!A1 * !A2 * !B1 * Y)	0.00054	0.00055	0.00055
	(!A1 * !A2 * !B0 * B1 * Y)	-0.00048	-0.00048	-0.00047
	(!A1 * !A2 * !B0 * B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !A2 * !B0 * B1 * Y)	0.00005	0.00005	0.00005
	(!A1 * !A2 * !B0 * B1 * Y)	0.00055	0.00055	0.00055

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI32X4H7H	**(A1 * A2 * B0 * B1 * !Y)**	0.00033	0.00034	0.00034
	(A1 * A2 * B0 * B1 * !Y)	0.00008	0.00008	0.00008
	(A1 * A2 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B0 * B1 * !Y)	-0.00067	-0.00067	-0.00066
	(A1 * !A2 * B0 * B1 * !Y)	0.00047	0.00047	0.00047
	(A1 * !A2 * B0 * B1 * !Y)	0.00003	0.00003	0.00003
	(A1 * !A2 * B0 * B1 * !Y)	-0.00005	-0.00005	-0.00005
	(A1 * !A2 * B0 * B1 * !Y)	-0.00054	-0.00050	-0.00044
	(A1 * !A2 * !B1 * Y)	0.00048	0.00048	0.00048
	(A1 * !A2 * !B1 * Y)	0.00003	0.00003	0.00003
	(A1 * !A2 * !B1 * Y)	-0.00005	-0.00005	-0.00005
	(A1 * !A2 * !B1 * Y)	-0.00054	-0.00050	-0.00043
	(A1 * !A2 * !B0 * B1 * Y)	0.00048	0.00048	0.00048
	(A1 * !A2 * !B0 * B1 * Y)	0.00003	0.00003	0.00003
	(A1 * !A2 * !B0 * B1 * Y)	-0.00005	-0.00005	-0.00005
	(A1 * !A2 * !B0 * B1 * Y)	-0.00054	-0.00050	-0.00044
	(!A1 * B0 * B1 * !Y)	0.00047	0.00047	0.00048
	(!A1 * B0 * B1 * !Y)	0.00003	0.00003	0.00003
	(!A1 * B0 * B1 * !Y)	-0.00005	-0.00005	-0.00005
	(!A1 * B0 * B1 * !Y)	-0.00056	-0.00053	-0.00049
	(!A1 * A2 * !B1 * Y)	0.00048	0.00048	0.00048
	(!A1 * A2 * !B1 * Y)	0.00003	0.00003	0.00003
	(!A1 * A2 * !B1 * Y)	-0.00005	-0.00005	-0.00004
	(!A1 * A2 * !B1 * Y)	-0.00056	-0.00052	-0.00047
	(!A1 * A2 * !B0 * B1 * Y)	0.00048	0.00048	0.00048
	(!A1 * A2 * !B0 * B1 * Y)	0.00003	0.00003	0.00003
	(!A1 * A2 * !B0 * B1 * Y)	-0.00005	-0.00005	-0.00004
	(!A1 * A2 * !B0 * B1 * Y)	-0.00056	-0.00052	-0.00047
	(!A1 * !A2 * !B1 * Y)	0.00048	0.00048	0.00048
	(!A1 * !A2 * !B1 * Y)	0.00003	0.00003	0.00003
	(!A1 * !A2 * !B1 * Y)	-0.00005	-0.00005	-0.00005
	(!A1 * !A2 * !B1 * Y)	-0.00055	-0.00052	-0.00047
	(!A1 * !A2 * !B0 * B1 * Y)	0.00048	0.00048	0.00048
	(!A1 * !A2 * !B0 * B1 * Y)	0.00003	0.00003	0.00003
	(!A1 * !A2 * !B0 * B1 * Y)	-0.00005	-0.00005	-0.00005
	(!A1 * !A2 * !B0 * B1 * Y)	-0.00055	-0.00052	-0.00047

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI32X4H7H	**(A0 * A2 * B0 * B1 * !Y)**	-0.00033	-0.00029	-0.00022
	(A0 * A2 * B0 * B1 * !Y)	-0.00008	-0.00008	-0.00008
	(A0 * A2 * B0 * B1 * !Y)	0.00001	0.00001	0.00002
	(A0 * A2 * B0 * B1 * !Y)	0.00066	0.00066	0.00067
	(A0 * !A2 * B0 * B1 * !Y)	-0.00047	-0.00046	-0.00046
	(A0 * !A2 * B0 * B1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * !A2 * B0 * B1 * !Y)	0.00004	0.00005	0.00005
	(A0 * !A2 * B0 * B1 * !Y)	0.00055	0.00056	0.00056
	(A0 * !A2 * !B1 * Y)	-0.00047	-0.00047	-0.00046
	(A0 * !A2 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * !A2 * !B1 * Y)	0.00004	0.00004	0.00005
	(A0 * !A2 * !B1 * Y)	0.00056	0.00056	0.00056
	(A0 * !A2 * !B0 * B1 * Y)	-0.00047	-0.00047	-0.00047
	(A0 * !A2 * !B0 * B1 * Y)	-0.00003	-0.00003	-0.00001
	(A0 * !A2 * !B0 * B1 * Y)	0.00004	0.00004	0.00005
	(A0 * !A2 * !B0 * B1 * Y)	0.00056	0.00056	0.00056
	(!A0 * A2 * B0 * B1 * !Y)	-0.00047	-0.00046	-0.00046
	(!A0 * A2 * B0 * B1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A2 * B0 * B1 * !Y)	0.00004	0.00005	0.00005
	(!A0 * A2 * B0 * B1 * !Y)	0.00054	0.00054	0.00054
	(!A0 * A2 * !B1 * Y)	-0.00049	-0.00049	-0.00049
	(!A0 * A2 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A2 * !B1 * Y)	0.00014	0.00014	0.00014
	(!A0 * A2 * !B1 * Y)	0.00014	0.00014	0.00014
	(!A0 * A2 * !B0 * B1 * Y)	-0.00049	-0.00049	-0.00048
	(!A0 * A2 * !B0 * B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A2 * !B0 * B1 * Y)	0.00013	0.00014	0.00014
	(!A0 * A2 * !B0 * B1 * Y)	0.00014	0.00014	0.00014
	(!A0 * !A2 * B0 * B1 * !Y)	-0.00047	-0.00047	-0.00046
	(!A0 * !A2 * B0 * B1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A2 * B0 * B1 * !Y)	0.00016	0.00016	0.00016
	(!A0 * !A2 * B0 * B1 * !Y)	0.00016	0.00016	0.00016
	(!A0 * !A2 * !B1 * Y)	-0.00049	-0.00049	-0.00048
	(!A0 * !A2 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A2 * !B1 * Y)	0.00015	0.00016	0.00016
	(!A0 * !A2 * !B1 * Y)	0.00014	0.00014	0.00014
	(!A0 * !A2 * !B0 * B1 * Y)	-0.00049	-0.00049	-0.00048
	(!A0 * !A2 * !B0 * B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A2 * !B0 * B1 * Y)	0.00015	0.00016	0.00016
	(!A0 * !A2 * !B0 * B1 * Y)	0.00014	0.00014	0.00014

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI32X4H7H	**(A0 * A2 * B0 * B1 * !Y)**	0.00033	0.00033	0.00034
	(A0 * A2 * B0 * B1 * !Y)	0.00008	0.00008	0.00008
	(A0 * A2 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A2 * B0 * B1 * !Y)	-0.00066	-0.00066	-0.00066
	(A0 * !A2 * B0 * B1 * !Y)	0.00046	0.00046	0.00047
	(A0 * !A2 * B0 * B1 * !Y)	0.00003	0.00003	0.00003
	(A0 * !A2 * B0 * B1 * !Y)	-0.00005	-0.00005	-0.00004
	(A0 * !A2 * B0 * B1 * !Y)	-0.00056	-0.00053	-0.00049
	(A0 * !A2 * !B1 * Y)	0.00047	0.00048	0.00050
	(A0 * !A2 * !B1 * Y)	0.00003	0.00003	0.00003
	(A0 * !A2 * !B1 * Y)	-0.00005	-0.00004	-0.00004
	(A0 * !A2 * !B1 * Y)	-0.00056	-0.00052	-0.00046
	(A0 * !A2 * !B0 * B1 * Y)	0.00047	0.00048	0.00050
	(A0 * !A2 * !B0 * B1 * Y)	0.00003	0.00003	0.00003
	(A0 * !A2 * !B0 * B1 * Y)	-0.00005	-0.00004	-0.00004
	(A0 * !A2 * !B0 * B1 * Y)	-0.00056	-0.00052	-0.00046
	(!A0 * A2 * B0 * B1 * !Y)	0.00047	0.00047	0.00047
	(!A0 * A2 * B0 * B1 * !Y)	0.00003	0.00003	0.00003
	(!A0 * A2 * B0 * B1 * !Y)	-0.00005	-0.00005	-0.00004
	(!A0 * A2 * B0 * B1 * !Y)	-0.00054	-0.00051	-0.00047
	(!A0 * A2 * !B1 * Y)	0.00049	0.00049	0.00049
	(!A0 * A2 * !B1 * Y)	0.00003	0.00003	0.00003
	(!A0 * A2 * !B1 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * A2 * !B1 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * A2 * !B0 * B1 * Y)	0.00049	0.00049	0.00049
	(!A0 * A2 * !B0 * B1 * Y)	0.00003	0.00003	0.00003
	(!A0 * A2 * !B0 * B1 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * A2 * !B0 * B1 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !A2 * B0 * B1 * !Y)	0.00046	0.00047	0.00047
	(!A0 * !A2 * B0 * B1 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !A2 * B0 * B1 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !A2 * B0 * B1 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !A2 * !B1 * Y)	0.00049	0.00050	0.00050
	(!A0 * !A2 * !B1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A2 * !B1 * Y)	-0.00016	-0.00016	-0.00015
	(!A0 * !A2 * !B1 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !A2 * !B0 * B1 * Y)	0.00049	0.00050	0.00050
	(!A0 * !A2 * !B0 * B1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A2 * !B0 * B1 * Y)	-0.00016	-0.00016	-0.00015
	(!A0 * !A2 * !B0 * B1 * Y)	-0.00014	-0.00014	-0.00014

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X4H7H	(A0 * A1 * B0 * B1 * !Y)	-0.00035	-0.00030	-0.00023
	(A0 * A1 * B0 * B1 * !Y)	-0.00009	-0.00008	-0.00008
	(A0 * A1 * B0 * B1 * !Y)	0.00001	0.00002	0.00002
	(A0 * A1 * B0 * B1 * !Y)	0.00068	0.00069	0.00070
	(!A1 * B0 * B1 * !Y)	-0.00049	-0.00049	-0.00048
	(!A1 * B0 * B1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1 * B0 * B1 * !Y)	0.00004	0.00005	0.00005
	(!A1 * B0 * B1 * !Y)	0.00058	0.00058	0.00058
	(!A1 * !B1 * Y)	-0.00073	-0.00073	-0.00072
	(!A1 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B1 * Y)	0.00008	0.00008	0.00009
	(!A1 * !B1 * Y)	0.00014	0.00015	0.00015
	(!A1 * !B0 * B1 * Y)	-0.00073	-0.00073	-0.00072
	(!A1 * !B0 * B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * B1 * Y)	0.00008	0.00008	0.00008
	(!A1 * !B0 * B1 * Y)	0.00014	0.00015	0.00015
	(!A0 * A1 * B0 * B1 * !Y)	-0.00049	-0.00049	-0.00049
	(!A0 * A1 * B0 * B1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * B0 * B1 * !Y)	0.00003	0.00005	0.00005
	(!A0 * A1 * B0 * B1 * !Y)	0.00055	0.00055	0.00055
	(!A0 * A1 * !B1 * Y)	-0.00074	-0.00073	-0.00072
	(!A0 * A1 * !B1 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * A1 * !B1 * Y)	0.00008	0.00009	0.00009
	(!A0 * A1 * !B1 * Y)	0.00012	0.00013	0.00013
	(!A0 * A1 * !B0 * B1 * Y)	-0.00074	-0.00073	-0.00072
	(!A0 * A1 * !B0 * B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * !B0 * B1 * Y)	0.00008	0.00008	0.00009
	(!A0 * A1 * !B0 * B1 * Y)	0.00012	0.00013	0.00013

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X4H7H	(A0 * A1 * B0 * B1 * !Y)	0.00034	0.00035	0.00035
	(A0 * A1 * B0 * B1 * !Y)	0.00008	0.00008	0.00009
	(A0 * A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B0 * B1 * !Y)	-0.00069	-0.00068	-0.00068
	(!A1 * B0 * B1 * !Y)	0.00049	0.00049	0.00049
	(!A1 * B0 * B1 * !Y)	0.00003	0.00003	0.00004
	(!A1 * B0 * B1 * !Y)	-0.00005	-0.00005	-0.00004
	(!A1 * B0 * B1 * !Y)	-0.00058	-0.00055	-0.00051
	(!A1 * !B1 * Y)	0.00072	0.00073	0.00074
	(!A1 * !B1 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B1 * Y)	-0.00008	-0.00008	-0.00008
	(!A1 * !B1 * Y)	-0.00015	-0.00015	-0.00014
	(!A1 * !B0 * B1 * Y)	0.00073	0.00073	0.00074
	(!A1 * !B0 * B1 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * B1 * Y)	-0.00008	-0.00008	-0.00008
	(!A1 * !B0 * B1 * Y)	-0.00015	-0.00015	-0.00014
	(!A0 * A1 * B0 * B1 * !Y)	0.00049	0.00049	0.00049
	(!A0 * A1 * B0 * B1 * !Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * B0 * B1 * !Y)	-0.00005	-0.00005	-0.00003
	(!A0 * A1 * B0 * B1 * !Y)	-0.00055	-0.00050	-0.00044
	(!A0 * A1 * !B1 * Y)	0.00072	0.00073	0.00074
	(!A0 * A1 * !B1 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * !B1 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * A1 * !B1 * Y)	-0.00013	-0.00013	-0.00012
	(!A0 * A1 * !B0 * B1 * Y)	0.00072	0.00073	0.00074
	(!A0 * A1 * !B0 * B1 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * !B0 * B1 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * A1 * !B0 * B1 * Y)	-0.00013	-0.00013	-0.00012

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X4H7H	(A0 * A1 * A2 * B1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * !Y)	-0.00010	-0.00010	-0.00010
	(A0 * A1 * A2 * B1 * !Y)	0.00001	0.00002	0.00002
	(A0 * A1 * A2 * B1 * !Y)	0.00086	0.00086	0.00087
	(A0 * A1 * A2 * !B1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !Y)	-0.00010	-0.00010	-0.00009
	(A0 * A1 * A2 * !B1 * !Y)	0.00004	0.00005	0.00005
	(A0 * A1 * A2 * !B1 * !Y)	0.00077	0.00078	0.00078
	(!A2 * !B1 * Y)	-0.00054	-0.00053	-0.00053
	(!A2 * !B1 * Y)	-0.00003	-0.00003	-0.00002
	(!A2 * !B1 * Y)	0.00004	0.00004	0.00005
	(!A2 * !B1 * Y)	0.00052	0.00052	0.00053
	(!A1 * A2 * !B1 * Y)	-0.00053	-0.00053	-0.00053
	(!A1 * A2 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * A2 * !B1 * Y)	0.00004	0.00004	0.00005
	(!A1 * A2 * !B1 * Y)	0.00052	0.00052	0.00053
	(!A0 * A1 * A2 * !B1 * Y)	-0.00054	-0.00053	-0.00053
	(!A0 * A1 * A2 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * A2 * !B1 * Y)	0.00004	0.00004	0.00005
	(!A0 * A1 * A2 * !B1 * Y)	0.00052	0.00052	0.00053

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X4H7H	(A0 * A1 * A2 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * !Y)	0.00010	0.00011	0.00011
	(A0 * A1 * A2 * B1 * !Y)	-0.00001	-0.00002	-0.00001
	(A0 * A1 * A2 * B1 * !Y)	-0.00087	-0.00086	-0.00085
	(A0 * A1 * A2 * !B1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !Y)	0.00009	0.00010	0.00010
	(A0 * A1 * A2 * !B1 * !Y)	-0.00005	-0.00005	-0.00004
	(A0 * A1 * A2 * !B1 * !Y)	-0.00078	-0.00075	-0.00071
	(!A2 * !B1 * Y)	0.00054	0.00054	0.00056
	(!A2 * !B1 * Y)	0.00003	0.00003	0.00003
	(!A2 * !B1 * Y)	-0.00005	-0.00004	-0.00004
	(!A2 * !B1 * Y)	-0.00052	-0.00049	-0.00044
	(!A1 * A2 * !B1 * Y)	0.00053	0.00054	0.00056
	(!A1 * A2 * !B1 * Y)	0.00003	0.00003	0.00004
	(!A1 * A2 * !B1 * Y)	-0.00005	-0.00004	-0.00004
	(!A1 * A2 * !B1 * Y)	-0.00052	-0.00049	-0.00044
	(!A0 * A1 * A2 * !B1 * Y)	0.00054	0.00054	0.00056
	(!A0 * A1 * A2 * !B1 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * A2 * !B1 * Y)	-0.00005	-0.00004	-0.00004
	(!A0 * A1 * A2 * !B1 * Y)	-0.00052	-0.00049	-0.00044

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X4H7H	(A0 * A1 * A2 * B0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * !Y)	-0.00009	-0.00009	-0.00009
	(A0 * A1 * A2 * B0 * !Y)	0.00001	0.00002	0.00002
	(A0 * A1 * A2 * B0 * !Y)	0.00085	0.00085	0.00086
	(A0 * A1 * A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * !Y)	-0.00009	-0.00009	-0.00009
	(A0 * A1 * A2 * !B0 * !Y)	0.00004	0.00005	0.00005
	(A0 * A1 * A2 * !B0 * !Y)	0.00076	0.00077	0.00077
	(!A2 * !B0 * Y)	-0.00076	-0.00075	-0.00075
	(!A2 * !B0 * Y)	-0.00003	-0.00003	-0.00002
	(!A2 * !B0 * Y)	0.00007	0.00008	0.00008
	(!A2 * !B0 * Y)	0.00009	0.00009	0.00009
	(!A1 * A2 * !B0 * Y)	-0.00076	-0.00075	-0.00074
	(!A1 * A2 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * A2 * !B0 * Y)	0.00008	0.00008	0.00009
	(!A1 * A2 * !B0 * Y)	0.00008	0.00009	0.00009
	(!A0 * A1 * A2 * !B0 * Y)	-0.00076	-0.00075	-0.00075
	(!A0 * A1 * A2 * !B0 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * A1 * A2 * !B0 * Y)	0.00007	0.00008	0.00008
	(!A0 * A1 * A2 * !B0 * Y)	0.00008	0.00009	0.00009

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X4H7H	(A0 * A1 * A2 * B0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * !Y)	0.00010	0.00010	0.00010
	(A0 * A1 * A2 * B0 * !Y)	-0.00002	-0.00001	-0.00001
	(A0 * A1 * A2 * B0 * !Y)	-0.00086	-0.00085	-0.00084
	(A0 * A1 * A2 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * A2 * !B0 * !Y)	0.00009	0.00009	0.00009
	(A0 * A1 * A2 * !B0 * !Y)	-0.00005	-0.00005	-0.00004
	(A0 * A1 * A2 * !B0 * !Y)	-0.00077	-0.00074	-0.00069
	(!A2 * !B0 * Y)	0.00075	0.00076	0.00076
	(!A2 * !B0 * Y)	0.00003	0.00003	0.00003
	(!A2 * !B0 * Y)	-0.00007	-0.00007	-0.00007
	(!A2 * !B0 * Y)	-0.00009	-0.00009	-0.00008
	(!A1 * A2 * !B0 * Y)	0.00075	0.00076	0.00076
	(!A1 * A2 * !B0 * Y)	0.00003	0.00003	0.00004
	(!A1 * A2 * !B0 * Y)	-0.00007	-0.00007	-0.00007
	(!A1 * A2 * !B0 * Y)	-0.00009	-0.00009	-0.00008
	(!A0 * A1 * A2 * !B0 * Y)	0.00075	0.00076	0.00076
	(!A0 * A1 * A2 * !B0 * Y)	0.00003	0.00003	0.00004
	(!A0 * A1 * A2 * !B0 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * A1 * A2 * !B0 * Y)	-0.00009	-0.00009	-0.00008

AOI33X0P5H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

AOI

Y=! (A0 & A1 & A2)+ (B0 & B1 & B2)

Truth Table

INPUT						OUTPUT
A0	A1	A2	B0	B1	B2	Y
0	x	x	0	x	x	1
0	x	x	1	0	x	1
0	x	x	1	1	0	1
x	x	x	1	1	1	0
1	0	x	0	x	x	1
1	0	x	1	0	x	1
1	0	x	1	1	0	1
1	1	0	0	x	x	1
1	1	0	1	0	x	1
1	1	0	1	1	0	1
1	1	1	x	x	x	0

Footprint

Cell Name	Area
AOI33X0P5H7H	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	**A1**	**A2**	**B0**	**B1**	**B2**	**Y**
AOI33X0P5H7H	0.00074	0.00075	0.00088	0.00083	0.00083	0.00090	0.01438

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
AOI33X0P5H7H	0.00000	0.01085	0.02561

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI33X0P5H7H	A0->Y (FR)	0.09477	0.27427	0.76697
	A1->Y (FR)	0.08999	0.26832	0.76025
	A2->Y (FR)	0.08583	0.26285	0.75503
	B0->Y (FR)	0.08052	0.25354	0.74148
	B1->Y (FR)	0.07445	0.24613	0.73477
	B2->Y (FR)	0.06943	0.23976	0.72928

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI33X0P5H7H	A0->Y (RF)	0.08025	0.23678	0.66761
	A1->Y (RF)	0.07902	0.24220	0.70288
	A2->Y (RF)	0.07603	0.23634	0.69965
	B0->Y (RF)	0.06253	0.21557	0.64829
	B1->Y (RF)	0.05972	0.21859	0.68047
	B2->Y (RF)	0.05584	0.21133	0.67700

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI33X0P5H7H	A0	0.00185	0.00187	0.00188
	A0	-0.00020	-0.00020	-0.00020
	A0	0.00019	0.00019	0.00019
	A0	-0.00013	-0.00012	-0.00010
	A1	0.00174	0.00177	0.00178
	A1	-0.00020	-0.00020	-0.00020
	A1	0.00016	0.00016	0.00016
	A1	-0.00007	-0.00004	-0.00002
	A2	0.00163	0.00167	0.00170
	A2	-0.00020	-0.00020	-0.00019
	A2	0.00008	0.00012	0.00012
	A2	-0.00008	-0.00004	0.00002
	B0	0.00133	0.00138	0.00141
	B0	-0.00008	-0.00008	-0.00001
	B0	0.00019	0.00019	0.00019
	B0	-0.00017	-0.00015	-0.00013
	B1	0.00122	0.00126	0.00128
	B1	-0.00008	-0.00008	-0.00001
	B1	0.00016	0.00016	0.00016
	B1	-0.00012	-0.00010	-0.00008
	B2	0.00112	0.00116	0.00119
	B2	-0.00008	-0.00008	-0.00002
	B2	0.00011	0.00012	0.00013
	B2	-0.00012	-0.00008	-0.00005

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI33X0P5H7H	A0	-0.00008	-0.00007	-0.00006
	A0	0.00021	0.00022	0.00022
	A0	-0.00012	-0.00012	-0.00012
	A0	0.00190	0.00193	0.00194
	A1	-0.00009	-0.00007	-0.00006
	A1	0.00021	0.00022	0.00022
	A1	-0.00009	-0.00009	-0.00008
	A1	0.00167	0.00171	0.00173
	A2	-0.00011	-0.00008	-0.00006
	A2	0.00021	0.00021	0.00022
	A2	-0.00005	-0.00005	-0.00003
	A2	0.00154	0.00158	0.00161
	B0	-0.00003	0.00001	0.00008
	B0	0.00002	0.00008	0.00021
	B0	-0.00012	-0.00012	-0.00012
	B0	0.00161	0.00164	0.00166
	B1	-0.00002	0.00001	0.00008
	B1	0.00004	0.00008	0.00009
	B1	-0.00009	-0.00008	-0.00008
	B1	0.00141	0.00144	0.00146
	B2	-0.00004	0.00000	0.00003
	B2	0.00007	0.00008	0.00011
	B2	-0.00005	-0.00005	-0.00004
	B2	0.00125	0.00129	0.00132

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X0P5H7H	**(A1 * A2 * B0 * B1 * B2 * !Y)**	-0.00009	-0.00008	-0.00006
	(A1 * A2 * B0 * B1 * B2 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * A2 * B0 * B1 * B2 * !Y)	0.00000	0.00001	0.00001
	(A1 * A2 * B0 * B1 * B2 * !Y)	0.00029	0.00029	0.00029
	(A1 * !A2 * B0 * B1 * B2 * !Y)	-0.00013	-0.00013	-0.00012
	(A1 * !A2 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * B1 * B2 * !Y)	0.00024	0.00025	0.00025
	(A1 * !A2 * !B2 * Y)	-0.00013	-0.00013	-0.00012
	(A1 * !A2 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !B2 * Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * !B2 * Y)	0.00025	0.00025	0.00025
	(A1 * !A2 * !B1 * B2 * Y)	-0.00013	-0.00013	-0.00012
	(A1 * !A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * !B1 * B2 * Y)	0.00025	0.00025	0.00025
	(A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00013	-0.00013	-0.00012
	(A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !B0 * B1 * B2 * Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * !B0 * B1 * B2 * Y)	0.00025	0.00025	0.00025
	(!A1 * B0 * B1 * B2 * !Y)	-0.00013	-0.00013	-0.00012
	(!A1 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * B2 * !Y)	0.00025	0.00025	0.00025
	(!A1 * A2 * !B2 * Y)	-0.00013	-0.00013	-0.00012
	(!A1 * A2 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B2 * Y)	0.00025	0.00025	0.00026
	(!A1 * A2 * !B1 * B2 * Y)	-0.00013	-0.00013	-0.00012
	(!A1 * A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B1 * B2 * Y)	0.00025	0.00025	0.00026
	(!A1 * A2 * !B0 * B1 * B2 * Y)	-0.00013	-0.00013	-0.00012
	(!A1 * A2 * !B0 * B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * B1 * B2 * Y)	0.00025	0.00025	0.00026
	(!A1 * !A2 * !B2 * Y)	-0.00013	-0.00013	-0.00012
	(!A1 * !A2 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B2 * Y)	0.00025	0.00025	0.00025
	(!A1 * !A2 * !B1 * B2 * Y)	-0.00013	-0.00013	-0.00013
	(!A1 * !A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B1 * B2 * Y)	0.00025	0.00025	0.00025
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00013	-0.00013	-0.00012
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	0.00025	0.00025	0.00025

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X0P5H7H	**(A1 * A2 * B0 * B1 * B2 * !Y)**	0.00009	0.00009	0.00009
	(A1 * A2 * B0 * B1 * B2 * !Y)	0.00002	0.00002	0.00002
	(A1 * A2 * B0 * B1 * B2 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * A2 * B0 * B1 * B2 * !Y)	-0.00029	-0.00028	-0.00028
	(A1 * !A2 * B0 * B1 * B2 * !Y)	0.00013	0.00013	0.00013
	(A1 * !A2 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * B1 * B2 * !Y)	-0.00025	-0.00024	-0.00022
	(A1 * !A2 * !B2 * Y)	0.00012	0.00013	0.00013
	(A1 * !A2 * !B2 * Y)	0.00001	0.00001	0.00002
	(A1 * !A2 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !B2 * Y)	-0.00025	-0.00024	-0.00022
	(A1 * !A2 * !B1 * B2 * Y)	0.00012	0.00013	0.00013
	(A1 * !A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00002
	(A1 * !A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !B1 * B2 * Y)	-0.00025	-0.00024	-0.00022
	(A1 * !A2 * !B0 * B1 * B2 * Y)	0.00012	0.00013	0.00013
	(A1 * !A2 * !B0 * B1 * B2 * Y)	0.00001	0.00001	0.00002
	(A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00025	-0.00024	-0.00022
	(!A1 * B0 * B1 * B2 * !Y)	0.00013	0.00013	0.00013
	(!A1 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * B2 * !Y)	-0.00025	-0.00024	-0.00024
	(!A1 * A2 * !B2 * Y)	0.00012	0.00013	0.00013
	(!A1 * A2 * !B2 * Y)	0.00001	0.00001	0.00002
	(!A1 * A2 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B2 * Y)	-0.00025	-0.00024	-0.00023
	(!A1 * A2 * !B1 * B2 * Y)	0.00012	0.00013	0.00013
	(!A1 * A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00002
	(!A1 * A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B1 * B2 * Y)	-0.00025	-0.00024	-0.00023
	(!A1 * A2 * !B0 * B1 * B2 * Y)	0.00012	0.00013	0.00013
	(!A1 * A2 * !B0 * B1 * B2 * Y)	0.00001	0.00001	0.00002
	(!A1 * A2 * !B0 * B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * B1 * B2 * Y)	-0.00025	-0.00024	-0.00023
	(!A1 * !A2 * !B2 * Y)	0.00012	0.00013	0.00013
	(!A1 * !A2 * !B2 * Y)	0.00001	0.00001	0.00002
	(!A1 * !A2 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B2 * Y)	-0.00025	-0.00024	-0.00023
	(!A1 * !A2 * !B1 * B2 * Y)	0.00013	0.00013	0.00013
	(!A1 * !A2 * !B1 * B2 * Y)	0.00000	0.00001	0.00001
	(!A1 * !A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B1 * B2 * Y)	-0.00025	-0.00024	-0.00023
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	0.00013	0.00013	0.00013
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	0.00000	0.00001	0.00001
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00025	-0.00024	-0.00023

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X0P5H7H	**(A0 * A2 * B0 * B1 * B2 * !Y)**	-0.00010	-0.00008	-0.00006
	(A0 * A2 * B0 * B1 * B2 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A2 * B0 * B1 * B2 * !Y)	0.00000	0.00001	0.00001
	(A0 * A2 * B0 * B1 * B2 * !Y)	0.00022	0.00022	0.00022
	(A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00014	-0.00014	-0.00014
	(A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00002
	(A0 * !A2 * B0 * B1 * B2 * !Y)	0.00018	0.00018	0.00018
	(A0 * !A2 * !B2 * Y)	-0.00014	-0.00014	-0.00014
	(A0 * !A2 * !B2 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A2 * !B2 * Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B2 * Y)	0.00018	0.00018	0.00018
	(A0 * !A2 * !B1 * B2 * Y)	-0.00014	-0.00014	-0.00014
	(A0 * !A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B1 * B2 * Y)	0.00018	0.00018	0.00018
	(A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00014	-0.00014	-0.00014
	(A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A2 * !B0 * B1 * B2 * Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B0 * B1 * B2 * Y)	0.00018	0.00018	0.00018
	(!A0 * A2 * B0 * B1 * B2 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * A2 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * B0 * B1 * B2 * !Y)	0.00018	0.00018	0.00018
	(!A0 * A2 * !B2 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * A2 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * !B2 * Y)	0.00004	0.00004	0.00004
	(!A0 * A2 * !B2 * Y)	0.00006	0.00006	0.00006
	(!A0 * A2 * !B1 * B2 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * !B1 * B2 * Y)	0.00004	0.00004	0.00004
	(!A0 * A2 * !B1 * B2 * Y)	0.00006	0.00006	0.00006
	(!A0 * A2 * !B0 * B1 * B2 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * A2 * !B0 * B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * !B0 * B1 * B2 * Y)	0.00004	0.00004	0.00004
	(!A0 * A2 * !B0 * B1 * B2 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	0.00005	0.00005	0.00005
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * !B2 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !A2 * !B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A2 * !B2 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A2 * !B2 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * !B1 * B2 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A2 * !B1 * B2 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A2 * !B1 * B2 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X0P5H7H	**(A0 * A2 * B0 * B1 * B2 * !Y)**	0.00009	0.00010	0.00010
	(A0 * A2 * B0 * B1 * B2 * !Y)	0.00002	0.00002	0.00002
	(A0 * A2 * B0 * B1 * B2 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B0 * B1 * B2 * !Y)	-0.00022	-0.00022	-0.00022
	(A0 * !A2 * B0 * B1 * B2 * !Y)	0.00014	0.00014	0.00014
	(A0 * !A2 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00002	-0.00001	-0.00001
	(A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00018	-0.00017	-0.00016
	(A0 * !A2 * !B2 * Y)	0.00014	0.00014	0.00016
	(A0 * !A2 * !B2 * Y)	0.00001	0.00001	0.00002
	(A0 * !A2 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B2 * Y)	-0.00018	-0.00017	-0.00016
	(A0 * !A2 * !B1 * B2 * Y)	0.00014	0.00014	0.00015
	(A0 * !A2 * !B1 * B2 * Y)	0.00000	0.00001	0.00001
	(A0 * !A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B1 * B2 * Y)	-0.00018	-0.00017	-0.00015
	(A0 * !A2 * !B0 * B1 * B2 * Y)	0.00014	0.00014	0.00015
	(A0 * !A2 * !B0 * B1 * B2 * Y)	0.00000	0.00001	0.00001
	(A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00018	-0.00017	-0.00015
	(!A0 * A2 * B0 * B1 * B2 * !Y)	0.00014	0.00014	0.00014
	(!A0 * A2 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B0 * B1 * B2 * !Y)	-0.00018	-0.00017	-0.00016
	(!A0 * A2 * !B2 * Y)	0.00014	0.00014	0.00014
	(!A0 * A2 * !B2 * Y)	0.00001	0.00001	0.00002
	(!A0 * A2 * !B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A2 * !B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * A2 * !B1 * B2 * Y)	0.00014	0.00014	0.00014
	(!A0 * A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00002
	(!A0 * A2 * !B1 * B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A2 * !B1 * B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * A2 * !B0 * B1 * B2 * Y)	0.00014	0.00014	0.00014
	(!A0 * A2 * !B0 * B1 * B2 * Y)	0.00001	0.00001	0.00002
	(!A0 * A2 * !B0 * B1 * B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A2 * !B0 * B1 * B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	0.00014	0.00014	0.00014
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * !B2 * Y)	0.00014	0.00014	0.00014
	(!A0 * !A2 * !B2 * Y)	0.00000	0.00001	0.00001
	(!A0 * !A2 * !B2 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A2 * !B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * !B1 * B2 * Y)	0.00014	0.00014	0.00014
	(!A0 * !A2 * !B1 * B2 * Y)	0.00000	0.00001	0.00001
	(!A0 * !A2 * !B1 * B2 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A2 * !B1 * B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	0.00014	0.00014	0.00014
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	0.00000	0.00001	0.00001
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X0P5H7H	**(A0 * A1 * B0 * B1 * B2 * !Y)**	-0.00010	-0.00008	-0.00006
	(A0 * A1 * B0 * B1 * B2 * !Y)	-0.00003	-0.00002	-0.00002
	(A0 * A1 * B0 * B1 * B2 * !Y)	0.00000	0.00000	0.00001
	(A0 * A1 * B0 * B1 * B2 * !Y)	0.00026	0.00026	0.00027
	(!A1 * B0 * B1 * B2 * !Y)	-0.00014	-0.00014	-0.00014
	(!A1 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * B2 * !Y)	0.00022	0.00022	0.00022
	(!A1 * !B2 * Y)	-0.00025	-0.00024	-0.00024
	(!A1 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B2 * Y)	0.00002	0.00003	0.00003
	(!A1 * !B2 * Y)	0.00005	0.00006	0.00006
	(!A1 * !B1 * B2 * Y)	-0.00025	-0.00024	-0.00024
	(!A1 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * B2 * Y)	0.00002	0.00003	0.00003
	(!A1 * !B1 * B2 * Y)	0.00005	0.00006	0.00006
	(!A1 * !B0 * B1 * B2 * Y)	-0.00025	-0.00024	-0.00024
	(!A1 * !B0 * B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * B2 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * B1 * B2 * Y)	0.00006	0.00006	0.00006
	(!A0 * A1 * B0 * B1 * B2 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * A1 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * B0 * B1 * B2 * !Y)	0.00021	0.00021	0.00022
	(!A0 * A1 * !B2 * Y)	-0.00025	-0.00024	-0.00024
	(!A0 * A1 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B2 * Y)	0.00002	0.00003	0.00003
	(!A0 * A1 * !B2 * Y)	0.00006	0.00006	0.00006
	(!A0 * A1 * !B1 * B2 * Y)	-0.00025	-0.00024	-0.00024
	(!A0 * A1 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * B2 * Y)	0.00002	0.00003	0.00003
	(!A0 * A1 * !B1 * B2 * Y)	0.00006	0.00006	0.00006
	(!A0 * A1 * !B0 * B1 * B2 * Y)	-0.00025	-0.00024	-0.00024
	(!A0 * A1 * !B0 * B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * B1 * B2 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B0 * B1 * B2 * Y)	0.00005	0.00006	0.00006

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X0P5H7H	**(A0 * A1 * B0 * B1 * B2 * !Y)**	0.00010	0.00010	0.00010
	(A0 * A1 * B0 * B1 * B2 * !Y)	0.00002	0.00002	0.00003
	(A0 * A1 * B0 * B1 * B2 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * B1 * B2 * !Y)	-0.00026	-0.00026	-0.00026
	(!A1 * B0 * B1 * B2 * !Y)	0.00014	0.00014	0.00014
	(!A1 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * B2 * !Y)	-0.00022	-0.00021	-0.00020
	(!A1 * !B2 * Y)	0.00024	0.00024	0.00025
	(!A1 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B2 * Y)	-0.00002	-0.00003	-0.00002
	(!A1 * !B2 * Y)	-0.00006	-0.00006	-0.00005
	(!A1 * !B1 * B2 * Y)	0.00024	0.00024	0.00025
	(!A1 * !B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * B2 * Y)	-0.00002	-0.00003	-0.00002
	(!A1 * !B1 * B2 * Y)	-0.00006	-0.00006	-0.00005
	(!A1 * !B0 * B1 * B2 * Y)	0.00024	0.00024	0.00025
	(!A1 * !B0 * B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * B2 * Y)	-0.00002	-0.00003	-0.00002
	(!A1 * !B0 * B1 * B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * A1 * B0 * B1 * B2 * !Y)	0.00014	0.00014	0.00014
	(!A0 * A1 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * B1 * B2 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * A1 * B0 * B1 * B2 * !Y)	-0.00022	-0.00020	-0.00018
	(!A0 * A1 * !B2 * Y)	0.00024	0.00024	0.00025
	(!A0 * A1 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B2 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * A1 * !B1 * B2 * Y)	0.00024	0.00024	0.00025
	(!A0 * A1 * !B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * B2 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B1 * B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * A1 * !B0 * B1 * B2 * Y)	0.00024	0.00024	0.00025
	(!A0 * A1 * !B0 * B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * B1 * B2 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B0 * B1 * B2 * Y)	-0.00006	-0.00006	-0.00005

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X0P5H7H	**(A0 * A1 * A2 * B1 * B2 * !Y)**	-0.00000	-0.00000	0.00000
	(A0 * A1 * A2 * B1 * B2 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * A2 * B1 * B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * B2 * !Y)	0.00033	0.00034	0.00034
	(A0 * A1 * A2 * B1 * !B2 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * A2 * B1 * !B2 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * A2 * B1 * !B2 * !Y)	0.00001	0.00001	0.00002
	(A0 * A1 * A2 * B1 * !B2 * !Y)	0.00030	0.00031	0.00031
	(A0 * A1 * A2 * !B1 * B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * B2 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * A2 * !B1 * B2 * !Y)	0.00001	0.00001	0.00002
	(A0 * A1 * A2 * !B1 * B2 * !Y)	0.00031	0.00031	0.00031
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	0.00031	0.00031	0.00031
	(!A2 * B1 * !B2 * Y)	-0.00018	-0.00018	-0.00018
	(!A2 * B1 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A2 * B1 * !B2 * Y)	0.00001	0.00001	0.00002
	(!A2 * B1 * !B2 * Y)	0.00020	0.00020	0.00020
	(!A2 * !B1 * B2 * Y)	-0.00018	-0.00018	-0.00018
	(!A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A2 * !B1 * B2 * Y)	0.00021	0.00021	0.00021
	(!A2 * !B1 * !B2 * Y)	-0.00018	-0.00018	-0.00018
	(!A2 * !B1 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A2 * !B1 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A2 * !B1 * !B2 * Y)	0.00020	0.00020	0.00021
	(!A1 * A2 * B1 * !B2 * Y)	-0.00018	-0.00018	-0.00018
	(!A1 * A2 * B1 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * B1 * !B2 * Y)	0.00001	0.00001	0.00002
	(!A1 * A2 * B1 * !B2 * Y)	0.00020	0.00020	0.00020
	(!A1 * A2 * !B1 * B2 * Y)	-0.00018	-0.00018	-0.00018
	(!A1 * A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B1 * B2 * Y)	0.00021	0.00021	0.00021
	(!A1 * A2 * !B1 * !B2 * Y)	-0.00018	-0.00018	-0.00018
	(!A1 * A2 * !B1 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B1 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B1 * !B2 * Y)	0.00020	0.00020	0.00021
	(!A0 * A1 * A2 * B1 * !B2 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * A1 * A2 * B1 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * A2 * B1 * !B2 * Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * A2 * B1 * !B2 * Y)	0.00020	0.00020	0.00020
	(!A0 * A1 * A2 * !B1 * B2 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * A1 * A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * A2 * !B1 * B2 * Y)	0.00021	0.00021	0.00021
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	0.00020	0.00020	0.00021

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X0P5H7H	**(A0 * A1 * A2 * B1 * B2 * !Y)**	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * B2 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * A2 * B1 * B2 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * A2 * B1 * B2 * !Y)	-0.00034	-0.00033	-0.00033
	(A0 * A1 * A2 * B1 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * !B2 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * A2 * B1 * !B2 * !Y)	-0.00002	-0.00001	-0.00001
	(A0 * A1 * A2 * B1 * !B2 * !Y)	-0.00031	-0.00030	-0.00028
	(A0 * A1 * A2 * !B1 * B2 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * A2 * !B1 * B2 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * A2 * !B1 * B2 * !Y)	-0.00002	-0.00001	-0.00001
	(A0 * A1 * A2 * !B1 * B2 * !Y)	-0.00031	-0.00030	-0.00029
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	-0.00031	-0.00030	-0.00029
	(!A2 * B1 * !B2 * Y)	0.00018	0.00018	0.00018
	(!A2 * B1 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A2 * B1 * !B2 * Y)	-0.00002	-0.00001	-0.00001
	(!A2 * B1 * !B2 * Y)	-0.00020	-0.00019	-0.00017
	(!A2 * !B1 * B2 * Y)	0.00018	0.00018	0.00018
	(!A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A2 * !B1 * B2 * Y)	-0.00021	-0.00020	-0.00018
	(!A2 * !B1 * !B2 * Y)	0.00018	0.00018	0.00018
	(!A2 * !B1 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A2 * !B1 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A2 * !B1 * !B2 * Y)	-0.00021	-0.00020	-0.00018
	(!A1 * A2 * B1 * !B2 * Y)	0.00018	0.00018	0.00018
	(!A1 * A2 * B1 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * B1 * !B2 * Y)	-0.00002	-0.00001	-0.00001
	(!A1 * A2 * B1 * !B2 * Y)	-0.00020	-0.00019	-0.00017
	(!A1 * A2 * !B1 * B2 * Y)	0.00018	0.00018	0.00018
	(!A1 * A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B1 * B2 * Y)	-0.00021	-0.00020	-0.00018
	(!A1 * A2 * !B1 * !B2 * Y)	0.00018	0.00018	0.00018
	(!A1 * A2 * !B1 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B1 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B1 * !B2 * Y)	-0.00021	-0.00020	-0.00018
	(!A0 * A1 * A2 * B1 * !B2 * Y)	0.00018	0.00018	0.00018
	(!A0 * A1 * A2 * B1 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * A2 * B1 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * A2 * B1 * !B2 * Y)	-0.00020	-0.00019	-0.00017
	(!A0 * A1 * A2 * !B1 * B2 * Y)	0.00018	0.00018	0.00018
	(!A0 * A1 * A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * A2 * !B1 * B2 * Y)	-0.00021	-0.00020	-0.00018
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	0.00018	0.00018	0.00018
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	-0.00021	-0.00020	-0.00018

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X0P5H7H	**(A0 * A1 * A2 * B0 * B2 * !Y)**	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * B2 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * A2 * B0 * B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * B2 * !Y)	0.00029	0.00029	0.00029
	(A0 * A1 * A2 * B0 * !B2 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * !B2 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * A2 * B0 * !B2 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * B0 * !B2 * !Y)	0.00026	0.00027	0.00027
	(A0 * A1 * A2 * !B0 * B2 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * A2 * !B0 * B2 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * A2 * !B0 * B2 * !Y)	0.00001	0.00002	0.00002
	(A0 * A1 * A2 * !B0 * B2 * !Y)	0.00026	0.00026	0.00026
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	0.00014	0.00014	0.00014
	(!A2 * B0 * !B2 * Y)	-0.00018	-0.00017	-0.00017
	(!A2 * B0 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A2 * B0 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A2 * B0 * !B2 * Y)	0.00017	0.00017	0.00017
	(!A2 * !B0 * B2 * Y)	-0.00018	-0.00018	-0.00017
	(!A2 * !B0 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A2 * !B0 * B2 * Y)	0.00004	0.00004	0.00004
	(!A2 * !B0 * B2 * Y)	0.00004	0.00005	0.00004
	(!A2 * !B0 * !B2 * Y)	-0.00018	-0.00018	-0.00017
	(!A2 * !B0 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A2 * !B0 * !B2 * Y)	0.00005	0.00005	0.00005
	(!A2 * !B0 * !B2 * Y)	0.00004	0.00005	0.00004
	(!A1 * A2 * B0 * !B2 * Y)	-0.00018	-0.00017	-0.00017
	(!A1 * A2 * B0 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * B0 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * B0 * !B2 * Y)	0.00017	0.00017	0.00017
	(!A1 * A2 * !B0 * B2 * Y)	-0.00018	-0.00018	-0.00017
	(!A1 * A2 * !B0 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * B2 * Y)	0.00004	0.00004	0.00004
	(!A1 * A2 * !B0 * B2 * Y)	0.00004	0.00005	0.00004
	(!A1 * A2 * !B0 * !B2 * Y)	-0.00018	-0.00018	-0.00017
	(!A1 * A2 * !B0 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * !B2 * Y)	0.00005	0.00005	0.00005
	(!A1 * A2 * !B0 * !B2 * Y)	0.00004	0.00005	0.00004
	(!A0 * A1 * A2 * B0 * !B2 * Y)	-0.00018	-0.00017	-0.00017
	(!A0 * A1 * A2 * B0 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * A2 * B0 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * A2 * B0 * !B2 * Y)	0.00017	0.00017	0.00017
	(!A0 * A1 * A2 * !B0 * B2 * Y)	-0.00018	-0.00018	-0.00017
	(!A0 * A1 * A2 * !B0 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * A2 * !B0 * B2 * Y)	0.00004	0.00004	0.00004
	(!A0 * A1 * A2 * !B0 * B2 * Y)	0.00004	0.00005	0.00004
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	-0.00018	-0.00018	-0.00017
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	0.00005	0.00005	0.00005
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	0.00004	0.00005	0.00004

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X0P5H7H	**(A0 * A1 * A2 * B0 * B2 * !Y)**	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * B2 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * A2 * B0 * B2 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * A2 * B0 * B2 * !Y)	-0.00029	-0.00029	-0.00029
	(A0 * A1 * A2 * B0 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * !B2 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * A2 * B0 * !B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * B0 * !B2 * !Y)	-0.00027	-0.00026	-0.00025
	(A0 * A1 * A2 * !B0 * B2 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * B2 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * A2 * !B0 * B2 * !Y)	-0.00002	-0.00001	-0.00001
	(A0 * A1 * A2 * !B0 * B2 * !Y)	-0.00026	-0.00026	-0.00025
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	-0.00014	-0.00014	-0.00014
	(!A2 * B0 * !B2 * Y)	0.00018	0.00018	0.00019
	(!A2 * B0 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A2 * B0 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A2 * B0 * !B2 * Y)	-0.00017	-0.00016	-0.00014
	(!A2 * !B0 * B2 * Y)	0.00018	0.00018	0.00018
	(!A2 * !B0 * B2 * Y)	0.00001	0.00001	0.00001
	(!A2 * !B0 * B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A2 * !B0 * B2 * Y)	-0.00004	-0.00005	-0.00004
	(!A2 * !B0 * !B2 * Y)	0.00018	0.00018	0.00018
	(!A2 * !B0 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A2 * !B0 * !B2 * Y)	-0.00005	-0.00005	-0.00005
	(!A2 * !B0 * !B2 * Y)	-0.00004	-0.00005	-0.00004
	(!A1 * A2 * B0 * !B2 * Y)	0.00018	0.00018	0.00019
	(!A1 * A2 * B0 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * B0 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * B0 * !B2 * Y)	-0.00017	-0.00016	-0.00014
	(!A1 * A2 * !B0 * B2 * Y)	0.00018	0.00018	0.00018
	(!A1 * A2 * !B0 * B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * A2 * !B0 * B2 * Y)	-0.00004	-0.00005	-0.00004
	(!A1 * A2 * !B0 * !B2 * Y)	0.00018	0.00018	0.00018
	(!A1 * A2 * !B0 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * !B2 * Y)	-0.00005	-0.00005	-0.00005
	(!A1 * A2 * !B0 * !B2 * Y)	-0.00004	-0.00005	-0.00004
	(!A0 * A1 * A2 * B0 * !B2 * Y)	0.00018	0.00018	0.00019
	(!A0 * A1 * A2 * B0 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * A2 * B0 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * A2 * B0 * !B2 * Y)	-0.00017	-0.00016	-0.00014
	(!A0 * A1 * A2 * !B0 * B2 * Y)	0.00018	0.00018	0.00018
	(!A0 * A1 * A2 * !B0 * B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * A2 * !B0 * B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A1 * A2 * !B0 * B2 * Y)	-0.00004	-0.00005	-0.00004
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	0.00018	0.00018	0.00018
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	-0.00004	-0.00005	-0.00004

Passive power(pJ) for B2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

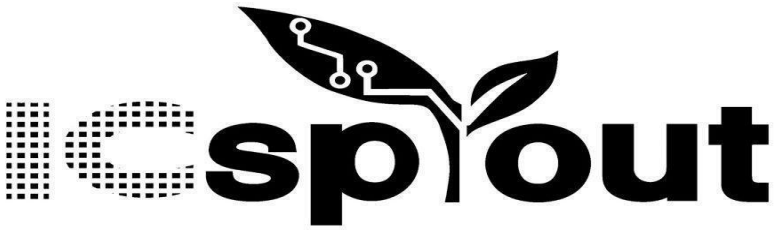
AOI33X0P5H7H	**(A0 * A1 * A2 * B0 * B1 * !Y)**	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * B1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * A2 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * B1 * !Y)	0.00031	0.00031	0.00032
	(A0 * A1 * A2 * !B1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * A2 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * !B1 * !Y)	0.00028	0.00028	0.00029
	(A0 * A1 * A2 * !B0 * B1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * B1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * A2 * !B0 * B1 * !Y)	0.00001	0.00001	0.00002
	(A0 * A1 * A2 * !B0 * B1 * !Y)	0.00028	0.00028	0.00028
	(!A2 * !B1 * Y)	-0.00027	-0.00026	-0.00026
	(!A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A2 * !B1 * Y)	0.00003	0.00003	0.00003
	(!A2 * !B1 * Y)	0.00003	0.00003	0.00003
	(!A2 * !B0 * B1 * Y)	-0.00027	-0.00027	-0.00026
	(!A2 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A2 * !B0 * B1 * Y)	0.00002	0.00003	0.00003
	(!A2 * !B0 * B1 * Y)	0.00003	0.00003	0.00003
	(!A1 * A2 * !B1 * Y)	-0.00027	-0.00026	-0.00026
	(!A1 * A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B1 * Y)	0.00003	0.00003	0.00003
	(!A1 * A2 * !B1 * Y)	0.00003	0.00003	0.00003
	(!A1 * A2 * !B0 * B1 * Y)	-0.00027	-0.00027	-0.00026
	(!A1 * A2 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * B1 * Y)	0.00002	0.00003	0.00003
	(!A1 * A2 * !B0 * B1 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * A2 * !B1 * Y)	-0.00027	-0.00026	-0.00026
	(!A0 * A1 * A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * A2 * !B1 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * A2 * !B1 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * A2 * !B0 * B1 * Y)	-0.00027	-0.00026	-0.00026
	(!A0 * A1 * A2 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * A2 * !B0 * B1 * Y)	0.00002	0.00003	0.00003
	(!A0 * A1 * A2 * !B0 * B1 * Y)	0.00003	0.00003	0.00003

Passive power(pJ) for B2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X0P5H7H	**(A0 * A1 * A2 * B0 * B1 * !Y)**	-0.00000	-0.00000	0.00000
	(A0 * A1 * A2 * B0 * B1 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * A2 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * A2 * B0 * B1 * !Y)	-0.00032	-0.00031	-0.00031
	(A0 * A1 * A2 * !B1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * A2 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * !B1 * !Y)	-0.00029	-0.00028	-0.00027
	(A0 * A1 * A2 * !B0 * B1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * B1 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * A2 * !B0 * B1 * !Y)	-0.00002	-0.00001	-0.00001
	(A0 * A1 * A2 * !B0 * B1 * !Y)	-0.00028	-0.00026	-0.00024
	(!A2 * !B1 * Y)	0.00026	0.00026	0.00027
	(!A2 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A2 * !B1 * Y)	-0.00003	-0.00003	-0.00002
	(!A2 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A2 * !B0 * B1 * Y)	0.00026	0.00027	0.00027
	(!A2 * !B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A2 * !B0 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A2 * !B0 * B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * A2 * !B1 * Y)	0.00026	0.00026	0.00027
	(!A1 * A2 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B1 * Y)	-0.00003	-0.00003	-0.00002
	(!A1 * A2 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * A2 * !B0 * B1 * Y)	0.00026	0.00027	0.00027
	(!A1 * A2 * !B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * !B0 * B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * A2 * !B1 * Y)	0.00026	0.00026	0.00027
	(!A0 * A1 * A2 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * A2 * !B1 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * A1 * A2 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * A2 * !B0 * B1 * Y)	0.00026	0.00026	0.00027
	(!A0 * A1 * A2 * !B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * A2 * !B0 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * A2 * !B0 * B1 * Y)	-0.00003	-0.00003	-0.00003

AOI33X0P7H7H



tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

AOI

Y=! (A0 & A1 & A2)+ (B0 & B1 & B2)

Truth Table

INPUT						OUTPUT
A0	**A1**	**A2**	**B0**	**B1**	**B2**	**Y**
0	**x**	**x**	**0**	**x**	**x**	**1**
0	**x**	**x**	**1**	**0**	**x**	**1**
0	**x**	**x**	**1**	**1**	**0**	**1**
x	**x**	**x**	**1**	**1**	**1**	**0**
1	**0**	**x**	**0**	**x**	**x**	**1**
1	**0**	**x**	**1**	**0**	**x**	**1**
1	**0**	**x**	**1**	**1**	**0**	**1**
1	**1**	**0**	**0**	**x**	**x**	**1**
1	**1**	**0**	**1**	**0**	**x**	**1**
1	**1**	**0**	**1**	**1**	**0**	**1**
1	**1**	**1**	**x**	**x**	**x**	**0**

Footprint

Cell Name	Area
AOI33X0P7H7H	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	**A1**	**A2**	**B0**	**B1**	**B2**	**Y**
AOI33X0P7H7H	0.00078	0.00078	0.00091	0.00086	0.00087	0.00095	0.01646

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
AOI33X0P7H7H	0.00000	0.01213	0.02443

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI33X0P7H7H	A0->Y (FR)	0.08921	0.27011	0.76792
	A1->Y (FR)	0.08447	0.26411	0.76134
	A2->Y (FR)	0.08019	0.25862	0.75578
	B0->Y (FR)	0.07404	0.24841	0.74260
	B1->Y (FR)	0.06878	0.24161	0.73484
	B2->Y (FR)	0.06379	0.23529	0.73072

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI33X0P7H7H	A0->Y (RF)	0.07785	0.23906	0.68384
	A1->Y (RF)	0.07602	0.24322	0.71498
	A2->Y (RF)	0.07269	0.23576	0.70587
	B0->Y (RF)	0.05862	0.21599	0.66159
	B1->Y (RF)	0.05616	0.21872	0.69105
	B2->Y (RF)	0.05163	0.20963	0.68429

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI33X0P7H7H	A0	0.00200	0.00203	0.00205
	A0	-0.00023	-0.00023	-0.00023
	A0	0.00022	0.00022	0.00022
	A0	-0.00013	-0.00012	-0.00011
	A1	0.00189	0.00191	0.00193
	A1	-0.00023	-0.00023	-0.00022
	A1	0.00018	0.00018	0.00018
	A1	-0.00007	-0.00005	-0.00003
	A2	0.00177	0.00181	0.00184
	A2	-0.00025	-0.00023	-0.00023
	A2	0.00010	0.00014	0.00014
	A2	-0.00009	-0.00004	0.00002
	B0	0.00143	0.00147	0.00150
	B0	-0.00009	-0.00009	0.00000
	B0	0.00022	0.00022	0.00022
	B0	-0.00018	-0.00016	-0.00014
	B1	0.00130	0.00135	0.00138
	B1	-0.00009	-0.00009	0.00000
	B1	0.00018	0.00018	0.00019
	B1	-0.00013	-0.00010	-0.00008
	B2	0.00119	0.00123	0.00127
	B2	-0.00009	-0.00009	-0.00008
	B2	0.00014	0.00014	0.00015
	B2	-0.00014	-0.00009	-0.00006

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI33X0P7H7H	A0	-0.00010	-0.00008	-0.00006
	A0	0.00025	0.00025	0.00025
	A0	-0.00014	-0.00014	-0.00014
	A0	0.00205	0.00209	0.00210
	A1	-0.00010	-0.00008	-0.00006
	A1	0.00025	0.00025	0.00025
	A1	-0.00010	-0.00010	-0.00010
	A1	0.00181	0.00186	0.00188
	A2	-0.00012	-0.00009	-0.00006
	A2	0.00025	0.00025	0.00025
	A2	-0.00005	-0.00005	-0.00005
	A2	0.00166	0.00171	0.00174
	B0	-0.00005	-0.00001	0.00012
	B0	0.00009	0.00009	0.00010
	B0	-0.00014	-0.00014	-0.00013
	B0	0.00171	0.00175	0.00177
	B1	-0.00004	-0.00001	0.00012
	B1	0.00009	0.00009	0.00010
	B1	-0.00010	-0.00010	-0.00009
	B1	0.00149	0.00153	0.00155
	B2	-0.00006	-0.00002	0.00001
	B2	0.00009	0.00009	0.00012
	B2	-0.00005	-0.00005	-0.00005
	B2	0.00132	0.00136	0.00140

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X0P7H7H	**(A1 * A2 * B0 * B1 * B2 * !Y)**	-0.00010	-0.00009	-0.00007
	(A1 * A2 * B0 * B1 * B2 * !Y)	-0.00003	-0.00002	-0.00002
	(A1 * A2 * B0 * B1 * B2 * !Y)	0.00000	0.00001	0.00001
	(A1 * A2 * B0 * B1 * B2 * !Y)	0.00029	0.00029	0.00029
	(A1 * !A2 * B0 * B1 * B2 * !Y)	-0.00015	-0.00015	-0.00015
	(A1 * !A2 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * B1 * B2 * !Y)	0.00002	0.00002	0.00002
	(A1 * !A2 * B0 * B1 * B2 * !Y)	0.00024	0.00024	0.00025
	(A1 * !A2 * !B2 * Y)	-0.00015	-0.00015	-0.00014
	(A1 * !A2 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !B2 * Y)	0.00001	0.00002	0.00002
	(A1 * !A2 * !B2 * Y)	0.00024	0.00024	0.00025
	(A1 * !A2 * !B1 * B2 * Y)	-0.00015	-0.00015	-0.00014
	(A1 * !A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !B1 * B2 * Y)	0.00001	0.00002	0.00002
	(A1 * !A2 * !B1 * B2 * Y)	0.00024	0.00024	0.00025
	(A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00015	-0.00015	-0.00014
	(A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !B0 * B1 * B2 * Y)	0.00001	0.00002	0.00002
	(A1 * !A2 * !B0 * B1 * B2 * Y)	0.00024	0.00024	0.00025
	(!A1 * B0 * B1 * B2 * !Y)	-0.00015	-0.00015	-0.00015
	(!A1 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * B2 * !Y)	0.00001	0.00002	0.00002
	(!A1 * B0 * B1 * B2 * !Y)	0.00025	0.00025	0.00025
	(!A1 * A2 * !B2 * Y)	-0.00015	-0.00015	-0.00015
	(!A1 * A2 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B2 * Y)	0.00001	0.00001	0.00002
	(!A1 * A2 * !B2 * Y)	0.00025	0.00025	0.00025
	(!A1 * A2 * !B1 * B2 * Y)	-0.00015	-0.00015	-0.00015
	(!A1 * A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B1 * B2 * Y)	0.00025	0.00025	0.00025
	(!A1 * A2 * !B0 * B1 * B2 * Y)	-0.00015	-0.00015	-0.00015
	(!A1 * A2 * !B0 * B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * B1 * B2 * Y)	0.00025	0.00025	0.00025
	(!A1 * !A2 * !B2 * Y)	-0.00015	-0.00015	-0.00014
	(!A1 * !A2 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B2 * Y)	0.00001	0.00002	0.00002
	(!A1 * !A2 * !B2 * Y)	0.00025	0.00025	0.00025
	(!A1 * !A2 * !B1 * B2 * Y)	-0.00015	-0.00015	-0.00015
	(!A1 * !A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B1 * B2 * Y)	0.00001	0.00002	0.00002
	(!A1 * !A2 * !B1 * B2 * Y)	0.00025	0.00025	0.00025
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00015	-0.00015	-0.00015
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	0.00001	0.00002	0.00002
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	0.00025	0.00025	0.00025

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X0P7H7H	**(A1 * A2 * B0 * B1 * B2 * !Y)**	0.00010	0.00010	0.00010
	(A1 * A2 * B0 * B1 * B2 * !Y)	0.00002	0.00003	0.00003
	(A1 * A2 * B0 * B1 * B2 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * A2 * B0 * B1 * B2 * !Y)	-0.00029	-0.00029	-0.00028
	(A1 * !A2 * B0 * B1 * B2 * !Y)	0.00015	0.00015	0.00015
	(A1 * !A2 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * B1 * B2 * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * !A2 * B0 * B1 * B2 * !Y)	-0.00025	-0.00024	-0.00022
	(A1 * !A2 * !B2 * Y)	0.00015	0.00015	0.00015
	(A1 * !A2 * !B2 * Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * !B2 * Y)	-0.00002	-0.00002	-0.00001
	(A1 * !A2 * !B2 * Y)	-0.00025	-0.00024	-0.00022
	(A1 * !A2 * !B1 * B2 * Y)	0.00015	0.00015	0.00015
	(A1 * !A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * !B1 * B2 * Y)	-0.00002	-0.00002	-0.00001
	(A1 * !A2 * !B1 * B2 * Y)	-0.00025	-0.00024	-0.00022
	(A1 * !A2 * !B0 * B1 * B2 * Y)	0.00015	0.00015	0.00015
	(A1 * !A2 * !B0 * B1 * B2 * Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00002	-0.00002	-0.00001
	(A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00025	-0.00024	-0.00022
	(!A1 * B0 * B1 * B2 * !Y)	0.00015	0.00015	0.00015
	(!A1 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * B2 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * B0 * B1 * B2 * !Y)	-0.00025	-0.00024	-0.00023
	(!A1 * A2 * !B2 * Y)	0.00015	0.00015	0.00015
	(!A1 * A2 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B2 * Y)	-0.00002	-0.00001	-0.00001
	(!A1 * A2 * !B2 * Y)	-0.00025	-0.00024	-0.00023
	(!A1 * A2 * !B1 * B2 * Y)	0.00015	0.00015	0.00015
	(!A1 * A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00002
	(!A1 * A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B1 * B2 * Y)	-0.00025	-0.00024	-0.00023
	(!A1 * A2 * !B0 * B1 * B2 * Y)	0.00015	0.00015	0.00015
	(!A1 * A2 * !B0 * B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * B1 * B2 * Y)	-0.00025	-0.00024	-0.00023
	(!A1 * !A2 * !B2 * Y)	0.00015	0.00015	0.00015
	(!A1 * !A2 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B2 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !A2 * !B2 * Y)	-0.00025	-0.00024	-0.00023
	(!A1 * !A2 * !B1 * B2 * Y)	0.00015	0.00015	0.00015
	(!A1 * !A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B1 * B2 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !A2 * !B1 * B2 * Y)	-0.00025	-0.00024	-0.00023
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	0.00015	0.00015	0.00015
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00025	-0.00024	-0.00023

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X0P7H7H	**(A0 * A2 * B0 * B1 * B2 * !Y)**	-0.00011	-0.00009	-0.00007
	(A0 * A2 * B0 * B1 * B2 * !Y)	-0.00003	-0.00003	-0.00002
	(A0 * A2 * B0 * B1 * B2 * !Y)	0.00000	0.00001	0.00001
	(A0 * A2 * B0 * B1 * B2 * !Y)	0.00023	0.00023	0.00023
	(A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00015	-0.00015	-0.00015
	(A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * B0 * B1 * B2 * !Y)	0.00001	0.00002	0.00002
	(A0 * !A2 * B0 * B1 * B2 * !Y)	0.00019	0.00019	0.00019
	(A0 * !A2 * !B2 * Y)	-0.00016	-0.00015	-0.00015
	(A0 * !A2 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B2 * Y)	0.00001	0.00001	0.00002
	(A0 * !A2 * !B2 * Y)	0.00019	0.00019	0.00020
	(A0 * !A2 * !B1 * B2 * Y)	-0.00016	-0.00015	-0.00015
	(A0 * !A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B1 * B2 * Y)	0.00019	0.00019	0.00020
	(A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00016	-0.00015	-0.00015
	(A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B0 * B1 * B2 * Y)	0.00001	0.00001	0.00002
	(A0 * !A2 * !B0 * B1 * B2 * Y)	0.00019	0.00019	0.00020
	(!A0 * A2 * B0 * B1 * B2 * !Y)	-0.00015	-0.00015	-0.00015
	(!A0 * A2 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B0 * B1 * B2 * !Y)	0.00001	0.00002	0.00002
	(!A0 * A2 * B0 * B1 * B2 * !Y)	0.00019	0.00019	0.00019
	(!A0 * A2 * !B2 * Y)	-0.00016	-0.00015	-0.00015
	(!A0 * A2 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * !B2 * Y)	0.00005	0.00005	0.00005
	(!A0 * A2 * !B2 * Y)	0.00006	0.00006	0.00006
	(!A0 * A2 * !B1 * B2 * Y)	-0.00016	-0.00015	-0.00015
	(!A0 * A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * !B1 * B2 * Y)	0.00005	0.00005	0.00005
	(!A0 * A2 * !B1 * B2 * Y)	0.00006	0.00006	0.00006
	(!A0 * A2 * !B0 * B1 * B2 * Y)	-0.00016	-0.00015	-0.00015
	(!A0 * A2 * !B0 * B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * !B0 * B1 * B2 * Y)	0.00005	0.00005	0.00005
	(!A0 * A2 * !B0 * B1 * B2 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00016	-0.00015	-0.00015
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	0.00005	0.00005	0.00005
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * !B2 * Y)	-0.00016	-0.00015	-0.00015
	(!A0 * !A2 * !B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A2 * !B2 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A2 * !B2 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * !B1 * B2 * Y)	-0.00016	-0.00015	-0.00015
	(!A0 * !A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A2 * !B1 * B2 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A2 * !B1 * B2 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00016	-0.00015	-0.00015
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X0P7H7H	**(A0 * A2 * B0 * B1 * B2 * !Y)**	0.00011	0.00011	0.00011
	(A0 * A2 * B0 * B1 * B2 * !Y)	0.00002	0.00003	0.00003
	(A0 * A2 * B0 * B1 * B2 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B0 * B1 * B2 * !Y)	-0.00023	-0.00023	-0.00023
	(A0 * !A2 * B0 * B1 * B2 * !Y)	0.00015	0.00015	0.00016
	(A0 * !A2 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00019	-0.00018	-0.00017
	(A0 * !A2 * !B2 * Y)	0.00016	0.00016	0.00017
	(A0 * !A2 * !B2 * Y)	0.00001	0.00001	0.00002
	(A0 * !A2 * !B2 * Y)	-0.00002	-0.00001	-0.00001
	(A0 * !A2 * !B2 * Y)	-0.00019	-0.00018	-0.00016
	(A0 * !A2 * !B1 * B2 * Y)	0.00016	0.00016	0.00016
	(A0 * !A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00002
	(A0 * !A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B1 * B2 * Y)	-0.00020	-0.00018	-0.00016
	(A0 * !A2 * !B0 * B1 * B2 * Y)	0.00016	0.00016	0.00017
	(A0 * !A2 * !B0 * B1 * B2 * Y)	0.00001	0.00001	0.00002
	(A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00002	-0.00001	-0.00001
	(A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00019	-0.00018	-0.00016
	(!A0 * A2 * B0 * B1 * B2 * !Y)	0.00015	0.00015	0.00016
	(!A0 * A2 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * B0 * B1 * B2 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A2 * B0 * B1 * B2 * !Y)	-0.00019	-0.00018	-0.00017
	(!A0 * A2 * !B2 * Y)	0.00015	0.00016	0.00016
	(!A0 * A2 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * !B2 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * A2 * !B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * A2 * !B1 * B2 * Y)	0.00015	0.00016	0.00016
	(!A0 * A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * !B1 * B2 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * A2 * !B1 * B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * A2 * !B0 * B1 * B2 * Y)	0.00015	0.00016	0.00016
	(!A0 * A2 * !B0 * B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * !B0 * B1 * B2 * Y)	-0.00005	-0.00005	-0.00004
	(!A0 * A2 * !B0 * B1 * B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	0.00015	0.00015	0.00016
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * !B2 * Y)	0.00016	0.00016	0.00016
	(!A0 * !A2 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A2 * !B2 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A2 * !B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * !B1 * B2 * Y)	0.00016	0.00016	0.00016
	(!A0 * !A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A2 * !B1 * B2 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A2 * !B1 * B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	0.00016	0.00016	0.00016
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X0P7H7H	**(A0 * A1 * B0 * B1 * B2 * !Y)**	-0.00011	-0.00009	-0.00007
	(A0 * A1 * B0 * B1 * B2 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * B0 * B1 * B2 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B0 * B1 * B2 * !Y)	0.00026	0.00027	0.00027
	(!A1 * B0 * B1 * B2 * !Y)	-0.00016	-0.00016	-0.00016
	(!A1 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * B2 * !Y)	0.00001	0.00002	0.00002
	(!A1 * B0 * B1 * B2 * !Y)	0.00022	0.00022	0.00023
	(!A1 * !B2 * Y)	-0.00026	-0.00026	-0.00026
	(!A1 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B2 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B2 * Y)	0.00005	0.00006	0.00006
	(!A1 * !B1 * B2 * Y)	-0.00026	-0.00026	-0.00026
	(!A1 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * B2 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B1 * B2 * Y)	0.00005	0.00006	0.00006
	(!A1 * !B0 * B1 * B2 * Y)	-0.00026	-0.00026	-0.00026
	(!A1 * !B0 * B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * B2 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * B1 * B2 * Y)	0.00005	0.00006	0.00006
	(!A0 * A1 * B0 * B1 * B2 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0 * A1 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * B1 * B2 * !Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * B0 * B1 * B2 * !Y)	0.00022	0.00022	0.00022
	(!A0 * A1 * !B2 * Y)	-0.00026	-0.00026	-0.00026
	(!A0 * A1 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B2 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * !B2 * Y)	0.00005	0.00006	0.00006
	(!A0 * A1 * !B1 * B2 * Y)	-0.00026	-0.00026	-0.00026
	(!A0 * A1 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * B2 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * !B1 * B2 * Y)	0.00005	0.00005	0.00006
	(!A0 * A1 * !B0 * B1 * B2 * Y)	-0.00026	-0.00026	-0.00026
	(!A0 * A1 * !B0 * B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * B1 * B2 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * !B0 * B1 * B2 * Y)	0.00005	0.00005	0.00006

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X0P7H7H	**(A0 * A1 * B0 * B1 * B2 * !Y)**	0.00011	0.00011	0.00011
	(A0 * A1 * B0 * B1 * B2 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * B0 * B1 * B2 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * B1 * B2 * !Y)	-0.00027	-0.00026	-0.00026
	(!A1 * B0 * B1 * B2 * !Y)	0.00016	0.00016	0.00016
	(!A1 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * B2 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * B0 * B1 * B2 * !Y)	-0.00023	-0.00022	-0.00021
	(!A1 * !B2 * Y)	0.00026	0.00026	0.00026
	(!A1 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B2 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B2 * Y)	-0.00006	-0.00006	-0.00005
	(!A1 * !B1 * B2 * Y)	0.00026	0.00026	0.00026
	(!A1 * !B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * B2 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B1 * B2 * Y)	-0.00006	-0.00006	-0.00005
	(!A1 * !B0 * B1 * B2 * Y)	0.00026	0.00026	0.00026
	(!A1 * !B0 * B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * B2 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * B1 * B2 * Y)	-0.00006	-0.00006	-0.00005
	(!A0 * A1 * B0 * B1 * B2 * !Y)	0.00016	0.00016	0.00016
	(!A0 * A1 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * B1 * B2 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * B0 * B1 * B2 * !Y)	-0.00022	-0.00020	-0.00018
	(!A0 * A1 * !B2 * Y)	0.00026	0.00026	0.00026
	(!A0 * A1 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B2 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * !B2 * Y)	-0.00006	-0.00006	-0.00005
	(!A0 * A1 * !B1 * B2 * Y)	0.00026	0.00026	0.00026
	(!A0 * A1 * !B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * B2 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * !B1 * B2 * Y)	-0.00006	-0.00005	-0.00005
	(!A0 * A1 * !B0 * B1 * B2 * Y)	0.00026	0.00026	0.00026
	(!A0 * A1 * !B0 * B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * B1 * B2 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * !B0 * B1 * B2 * Y)	-0.00006	-0.00005	-0.00005

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X0P7H7H	**(A0 * A1 * A2 * B1 * B2 * !Y)**	-0.00000	-0.00000	0.00000
	(A0 * A1 * A2 * B1 * B2 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * A2 * B1 * B2 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * A2 * B1 * B2 * !Y)	0.00035	0.00035	0.00035
	(A0 * A1 * A2 * B1 * !B2 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * !B2 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * A2 * B1 * !B2 * !Y)	0.00001	0.00002	0.00002
	(A0 * A1 * A2 * B1 * !B2 * !Y)	0.00031	0.00032	0.00032
	(A0 * A1 * A2 * !B1 * B2 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * A2 * !B1 * B2 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * A2 * !B1 * B2 * !Y)	0.00001	0.00001	0.00002
	(A0 * A1 * A2 * !B1 * B2 * !Y)	0.00032	0.00032	0.00032
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	0.00001	0.00002	0.00002
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	0.00032	0.00032	0.00032
	(!A2 * B1 * !B2 * Y)	-0.00019	-0.00019	-0.00019
	(!A2 * B1 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A2 * B1 * !B2 * Y)	0.00001	0.00002	0.00002
	(!A2 * B1 * !B2 * Y)	0.00021	0.00021	0.00022
	(!A2 * !B1 * B2 * Y)	-0.00019	-0.00019	-0.00019
	(!A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00002
	(!A2 * !B1 * B2 * Y)	0.00022	0.00022	0.00022
	(!A2 * !B1 * !B2 * Y)	-0.00019	-0.00019	-0.00019
	(!A2 * !B1 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A2 * !B1 * !B2 * Y)	0.00001	0.00002	0.00002
	(!A2 * !B1 * !B2 * Y)	0.00021	0.00022	0.00022
	(!A1 * A2 * B1 * !B2 * Y)	-0.00019	-0.00019	-0.00019
	(!A1 * A2 * B1 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * B1 * !B2 * Y)	0.00001	0.00002	0.00002
	(!A1 * A2 * B1 * !B2 * Y)	0.00021	0.00021	0.00022
	(!A1 * A2 * !B1 * B2 * Y)	-0.00019	-0.00019	-0.00019
	(!A1 * A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00002
	(!A1 * A2 * !B1 * B2 * Y)	0.00022	0.00022	0.00022
	(!A1 * A2 * !B1 * !B2 * Y)	-0.00019	-0.00019	-0.00019
	(!A1 * A2 * !B1 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B1 * !B2 * Y)	0.00001	0.00002	0.00001
	(!A1 * A2 * !B1 * !B2 * Y)	0.00021	0.00022	0.00022
	(!A0 * A1 * A2 * B1 * !B2 * Y)	-0.00019	-0.00019	-0.00019
	(!A0 * A1 * A2 * B1 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * A2 * B1 * !B2 * Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * A2 * B1 * !B2 * Y)	0.00021	0.00021	0.00022
	(!A0 * A1 * A2 * !B1 * B2 * Y)	-0.00019	-0.00019	-0.00019
	(!A0 * A1 * A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * A2 * !B1 * B2 * Y)	0.00022	0.00022	0.00022
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	-0.00019	-0.00019	-0.00019
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	0.00021	0.00022	0.00022

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X0P7H7H	**(A0 * A1 * A2 * B1 * B2 * !Y)**	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * B2 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * A2 * B1 * B2 * !Y)	-0.00001	-0.00000	-0.00000
	(A0 * A1 * A2 * B1 * B2 * !Y)	-0.00035	-0.00035	-0.00034
	(A0 * A1 * A2 * B1 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * !B2 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * A2 * B1 * !B2 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * A2 * B1 * !B2 * !Y)	-0.00032	-0.00031	-0.00029
	(A0 * A1 * A2 * !B1 * B2 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * B2 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * A2 * !B1 * B2 * !Y)	-0.00002	-0.00001	-0.00001
	(A0 * A1 * A2 * !B1 * B2 * !Y)	-0.00032	-0.00032	-0.00031
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	-0.00032	-0.00031	-0.00030
	(!A2 * B1 * !B2 * Y)	0.00019	0.00019	0.00019
	(!A2 * B1 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A2 * B1 * !B2 * Y)	-0.00002	-0.00002	-0.00001
	(!A2 * B1 * !B2 * Y)	-0.00021	-0.00020	-0.00018
	(!A2 * !B1 * B2 * Y)	0.00019	0.00019	0.00019
	(!A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A2 * !B1 * B2 * Y)	-0.00002	-0.00001	-0.00001
	(!A2 * !B1 * B2 * Y)	-0.00022	-0.00021	-0.00020
	(!A2 * !B1 * !B2 * Y)	0.00019	0.00019	0.00019
	(!A2 * !B1 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A2 * !B1 * !B2 * Y)	-0.00002	-0.00002	-0.00001
	(!A2 * !B1 * !B2 * Y)	-0.00022	-0.00021	-0.00020
	(!A1 * A2 * B1 * !B2 * Y)	0.00019	0.00019	0.00019
	(!A1 * A2 * B1 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * B1 * !B2 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * A2 * B1 * !B2 * Y)	-0.00021	-0.00020	-0.00019
	(!A1 * A2 * !B1 * B2 * Y)	0.00019	0.00019	0.00019
	(!A1 * A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B1 * B2 * Y)	-0.00002	-0.00001	-0.00001
	(!A1 * A2 * !B1 * B2 * Y)	-0.00022	-0.00021	-0.00020
	(!A1 * A2 * !B1 * !B2 * Y)	0.00019	0.00019	0.00019
	(!A1 * A2 * !B1 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B1 * !B2 * Y)	-0.00001	-0.00002	-0.00001
	(!A1 * A2 * !B1 * !B2 * Y)	-0.00022	-0.00021	-0.00020
	(!A0 * A1 * A2 * B1 * !B2 * Y)	0.00019	0.00019	0.00019
	(!A0 * A1 * A2 * B1 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * A2 * B1 * !B2 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * A2 * B1 * !B2 * Y)	-0.00021	-0.00020	-0.00018
	(!A0 * A1 * A2 * !B1 * B2 * Y)	0.00019	0.00019	0.00019
	(!A0 * A1 * A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * A2 * !B1 * B2 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * A1 * A2 * !B1 * B2 * Y)	-0.00022	-0.00021	-0.00020
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	0.00019	0.00019	0.00019
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	-0.00022	-0.00021	-0.00020

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X0P7H7H	**(A0 * A1 * A2 * B0 * B2 * !Y)**	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * B2 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * A2 * B0 * B2 * !Y)	0.00000	0.00000	0.00001
	(A0 * A1 * A2 * B0 * B2 * !Y)	0.00030	0.00030	0.00031
	(A0 * A1 * A2 * B0 * !B2 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * !B2 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * A2 * B0 * !B2 * !Y)	0.00001	0.00002	0.00002
	(A0 * A1 * A2 * B0 * !B2 * !Y)	0.00028	0.00028	0.00028
	(A0 * A1 * A2 * !B0 * B2 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * A2 * !B0 * B2 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * A2 * !B0 * B2 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * A2 * !B0 * B2 * !Y)	0.00027	0.00028	0.00028
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	0.00014	0.00015	0.00015
	(!A2 * B0 * !B2 * Y)	-0.00019	-0.00019	-0.00019
	(!A2 * B0 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A2 * B0 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A2 * B0 * !B2 * Y)	0.00018	0.00018	0.00018
	(!A2 * !B0 * B2 * Y)	-0.00019	-0.00019	-0.00019
	(!A2 * !B0 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A2 * !B0 * B2 * Y)	0.00004	0.00005	0.00005
	(!A2 * !B0 * B2 * Y)	0.00004	0.00004	0.00004
	(!A2 * !B0 * !B2 * Y)	-0.00019	-0.00019	-0.00019
	(!A2 * !B0 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A2 * !B0 * !B2 * Y)	0.00005	0.00005	0.00005
	(!A2 * !B0 * !B2 * Y)	0.00004	0.00004	0.00004
	(!A1 * A2 * B0 * !B2 * Y)	-0.00019	-0.00019	-0.00019
	(!A1 * A2 * B0 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * B0 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * B0 * !B2 * Y)	0.00018	0.00018	0.00018
	(!A1 * A2 * !B0 * B2 * Y)	-0.00019	-0.00019	-0.00019
	(!A1 * A2 * !B0 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * B2 * Y)	0.00004	0.00005	0.00005
	(!A1 * A2 * !B0 * B2 * Y)	0.00004	0.00004	0.00004
	(!A1 * A2 * !B0 * !B2 * Y)	-0.00019	-0.00019	-0.00019
	(!A1 * A2 * !B0 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * !B2 * Y)	0.00005	0.00005	0.00005
	(!A1 * A2 * !B0 * !B2 * Y)	0.00004	0.00004	0.00004
	(!A0 * A1 * A2 * B0 * !B2 * Y)	-0.00019	-0.00019	-0.00019
	(!A0 * A1 * A2 * B0 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * A2 * B0 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * A2 * B0 * !B2 * Y)	0.00017	0.00018	0.00018
	(!A0 * A1 * A2 * !B0 * B2 * Y)	-0.00019	-0.00019	-0.00019
	(!A0 * A1 * A2 * !B0 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * A2 * !B0 * B2 * Y)	0.00004	0.00005	0.00005
	(!A0 * A1 * A2 * !B0 * B2 * Y)	0.00004	0.00004	0.00004
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	-0.00019	-0.00019	-0.00019
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	0.00005	0.00005	0.00005
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	0.00004	0.00004	0.00004

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X0P7H7H	**(A0 * A1 * A2 * B0 * B2 * !Y)**	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * B2 * !Y)	0.00003	0.00003	0.00004
	(A0 * A1 * A2 * B0 * B2 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * A2 * B0 * B2 * !Y)	-0.00031	-0.00030	-0.00030
	(A0 * A1 * A2 * B0 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * !B2 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * A2 * B0 * !B2 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * A2 * B0 * !B2 * !Y)	-0.00028	-0.00027	-0.00025
	(A0 * A1 * A2 * !B0 * B2 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * B2 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * A2 * !B0 * B2 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * A2 * !B0 * B2 * !Y)	-0.00028	-0.00027	-0.00026
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	-0.00015	-0.00015	-0.00014
	(!A2 * B0 * !B2 * Y)	0.00019	0.00019	0.00020
	(!A2 * B0 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A2 * B0 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A2 * B0 * !B2 * Y)	-0.00018	-0.00016	-0.00014
	(!A2 * !B0 * B2 * Y)	0.00019	0.00019	0.00019
	(!A2 * !B0 * B2 * Y)	0.00001	0.00001	0.00001
	(!A2 * !B0 * B2 * Y)	-0.00005	-0.00005	-0.00004
	(!A2 * !B0 * B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A2 * !B0 * !B2 * Y)	0.00019	0.00019	0.00019
	(!A2 * !B0 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A2 * !B0 * !B2 * Y)	-0.00005	-0.00005	-0.00005
	(!A2 * !B0 * !B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * A2 * B0 * !B2 * Y)	0.00019	0.00019	0.00020
	(!A1 * A2 * B0 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * B0 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * B0 * !B2 * Y)	-0.00018	-0.00016	-0.00014
	(!A1 * A2 * !B0 * B2 * Y)	0.00019	0.00019	0.00019
	(!A1 * A2 * !B0 * B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * B2 * Y)	-0.00005	-0.00005	-0.00004
	(!A1 * A2 * !B0 * B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * A2 * !B0 * !B2 * Y)	0.00019	0.00019	0.00019
	(!A1 * A2 * !B0 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * !B2 * Y)	-0.00005	-0.00005	-0.00005
	(!A1 * A2 * !B0 * !B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A1 * A2 * B0 * !B2 * Y)	0.00019	0.00019	0.00020
	(!A0 * A1 * A2 * B0 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * A2 * B0 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * A2 * B0 * !B2 * Y)	-0.00018	-0.00016	-0.00014
	(!A0 * A1 * A2 * !B0 * B2 * Y)	0.00019	0.00019	0.00019
	(!A0 * A1 * A2 * !B0 * B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * A2 * !B0 * B2 * Y)	-0.00005	-0.00005	-0.00004
	(!A0 * A1 * A2 * !B0 * B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	0.00019	0.00019	0.00019
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	-0.00004	-0.00004	-0.00004

Passive power(pJ) for B2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X0P7H7H	**(A0 * A1 * A2 * B0 * B1 * !Y)**	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * B1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * A2 * B0 * B1 * !Y)	0.00000	0.00000	0.00001
	(A0 * A1 * A2 * B0 * B1 * !Y)	0.00033	0.00033	0.00033
	(A0 * A1 * A2 * !B1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * A2 * !B1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * A2 * !B1 * !Y)	0.00030	0.00030	0.00030
	(A0 * A1 * A2 * !B0 * B1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * B1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * A2 * !B0 * B1 * !Y)	0.00001	0.00002	0.00002
	(A0 * A1 * A2 * !B0 * B1 * !Y)	0.00029	0.00029	0.00029
	(!A2 * !B1 * Y)	-0.00029	-0.00028	-0.00028
	(!A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A2 * !B1 * Y)	0.00003	0.00003	0.00003
	(!A2 * !B1 * Y)	0.00003	0.00003	0.00003
	(!A2 * !B0 * B1 * Y)	-0.00029	-0.00028	-0.00028
	(!A2 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A2 * !B0 * B1 * Y)	0.00003	0.00003	0.00003
	(!A2 * !B0 * B1 * Y)	0.00003	0.00003	0.00003
	(!A1 * A2 * !B1 * Y)	-0.00029	-0.00028	-0.00028
	(!A1 * A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B1 * Y)	0.00003	0.00003	0.00003
	(!A1 * A2 * !B1 * Y)	0.00003	0.00003	0.00003
	(!A1 * A2 * !B0 * B1 * Y)	-0.00029	-0.00028	-0.00028
	(!A1 * A2 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * B1 * Y)	0.00003	0.00003	0.00003
	(!A1 * A2 * !B0 * B1 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * A2 * !B1 * Y)	-0.00029	-0.00028	-0.00028
	(!A0 * A1 * A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * A2 * !B1 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * A2 * !B1 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * A2 * !B0 * B1 * Y)	-0.00029	-0.00028	-0.00028
	(!A0 * A1 * A2 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * A2 * !B0 * B1 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * A2 * !B0 * B1 * Y)	0.00003	0.00003	0.00003

Passive power(pJ) for B2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X0P7H7H	**(A0 * A1 * A2 * B0 * B1 * !Y)**	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * B1 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * A2 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * A2 * B0 * B1 * !Y)	-0.00033	-0.00033	-0.00033
	(A0 * A1 * A2 * !B1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * A2 * !B1 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * A2 * !B1 * !Y)	-0.00030	-0.00029	-0.00028
	(A0 * A1 * A2 * !B0 * B1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * B1 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * A2 * !B0 * B1 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * A2 * !B0 * B1 * !Y)	-0.00029	-0.00027	-0.00025
	(!A2 * !B1 * Y)	0.00028	0.00028	0.00029
	(!A2 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A2 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A2 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A2 * !B0 * B1 * Y)	0.00028	0.00028	0.00029
	(!A2 * !B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A2 * !B0 * B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A2 * !B0 * B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * A2 * !B1 * Y)	0.00028	0.00028	0.00029
	(!A1 * A2 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * A2 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * A2 * !B0 * B1 * Y)	0.00028	0.00028	0.00029
	(!A1 * A2 * !B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * A2 * !B0 * B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * A2 * !B1 * Y)	0.00028	0.00028	0.00029
	(!A0 * A1 * A2 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * A2 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * A2 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * A2 * !B0 * B1 * Y)	0.00028	0.00028	0.00029
	(!A0 * A1 * A2 * !B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * A2 * !B0 * B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * A2 * !B0 * B1 * Y)	-0.00003	-0.00003	-0.00003

AOI33X1H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

AOI

Y=! (A0 & A1 & A2)+ (B0 & B1 & B2)

Truth Table

INPUT						OUTPUT
A0	A1	A2	B0	B1	B2	Y
0	x	x	0	x	x	1
0	x	x	1	0	x	1
0	x	x	1	1	0	1
x	x	x	1	1	1	0
1	0	x	0	x	x	1
1	0	x	1	0	x	1
1	0	x	1	1	0	1
1	1	0	0	x	x	1
1	1	0	1	0	x	1
1	1	0	1	1	0	1
1	1	1	x	x	x	0

Footprint

Cell Name	Area
AOI33X1H7H	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	**A1**	**A2**	**B0**	**B1**	**B2**	**Y**
AOI33X1H7H	0.00083	0.00087	0.00101	0.00093	0.00096	0.00103	0.01978

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
AOI33X1H7H	0.00000	0.01511	0.02696

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI33X1H7H	A0->Y (FR)	0.08280	0.26531	0.76833
	A1->Y (FR)	0.07847	0.25974	0.76223
	A2->Y (FR)	0.07436	0.25436	0.75713
	B0->Y (FR)	0.06769	0.24365	0.74328
	B1->Y (FR)	0.06261	0.23715	0.73814
	B2->Y (FR)	0.05809	0.23126	0.73218

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI33X1H7H	A0->Y (RF)	0.07605	0.24441	0.70910
	A1->Y (RF)	0.07421	0.24796	0.73683
	A2->Y (RF)	0.07036	0.23915	0.72310
	B0->Y (RF)	0.05600	0.22038	0.68649
	B1->Y (RF)	0.05332	0.22217	0.71363
	B2->Y (RF)	0.04897	0.21238	0.70077

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI33X1H7H	A0	0.00227	0.00230	0.00232
	A0	-0.00029	-0.00028	-0.00027
	A0	0.00026	0.00026	0.00026
	A0	-0.00012	-0.00010	-0.00009
	A1	0.00214	0.00217	0.00219
	A1	-0.00029	-0.00028	-0.00028
	A1	0.00021	0.00021	0.00021
	A1	-0.00006	-0.00003	-0.00002
	A2	0.00200	0.00204	0.00207
	A2	-0.00030	-0.00028	-0.00028
	A2	0.00013	0.00016	0.00016
	A2	-0.00008	-0.00003	0.00003
	B0	0.00159	0.00165	0.00168
	B0	-0.00011	-0.00011	-0.00004
	B0	0.00026	0.00026	0.00026
	B0	-0.00018	-0.00015	-0.00013
	B1	0.00147	0.00150	0.00153
	B1	-0.00011	-0.00011	-0.00004
	B1	0.00021	0.00021	0.00021
	B1	-0.00014	-0.00011	-0.00009
	B2	0.00133	0.00137	0.00142
	B2	-0.00012	-0.00011	-0.00002
	B2	0.00016	0.00016	0.00017
	B2	-0.00015	-0.00010	-0.00006

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI33X1H7H	A0	-0.00012	-0.00009	-0.00008
	A0	0.00030	0.00030	0.00030
	A0	-0.00016	-0.00016	-0.00016
	A0	0.00230	0.00233	0.00235
	A1	-0.00012	-0.00009	-0.00008
	A1	0.00029	0.00030	0.00032
	A1	-0.00012	-0.00012	-0.00011
	A1	0.00205	0.00209	0.00211
	A2	-0.00014	-0.00010	-0.00008
	A2	0.00030	0.00030	0.00030
	A2	-0.00006	-0.00006	-0.00006
	A2	0.00184	0.00191	0.00194
	B0	-0.00018	-0.00003	0.00003
	B0	0.00004	0.00012	0.00031
	B0	-0.00016	-0.00016	-0.00016
	B0	0.00189	0.00193	0.00196
	B1	-0.00018	-0.00003	0.00003
	B1	0.00004	0.00012	0.00030
	B1	-0.00011	-0.00011	-0.00010
	B1	0.00167	0.00170	0.00173
	B2	-0.00010	-0.00003	0.00004
	B2	0.00002	0.00011	0.00021
	B2	-0.00006	-0.00006	-0.00006
	B2	0.00146	0.00151	0.00155

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X1H7H	(A1 * A2 * B0 * B1 * B2 * !Y)	-0.00012	-0.00010	-0.00008
	(A1 * A2 * B0 * B1 * B2 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * A2 * B0 * B1 * B2 * !Y)	0.00000	0.00001	0.00001
	(A1 * A2 * B0 * B1 * B2 * !Y)	0.00030	0.00030	0.00031
	(A1 * !A2 * B0 * B1 * B2 * !Y)	-0.00017	-0.00017	-0.00017
	(A1 * !A2 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * B1 * B2 * !Y)	0.00002	0.00002	0.00002
	(A1 * !A2 * B0 * B1 * B2 * !Y)	0.00025	0.00025	0.00025
	(A1 * !A2 * !B2 * Y)	-0.00017	-0.00017	-0.00017
	(A1 * !A2 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !B2 * Y)	0.00002	0.00002	0.00002
	(A1 * !A2 * !B2 * Y)	0.00025	0.00025	0.00026
	(A1 * !A2 * !B1 * B2 * Y)	-0.00017	-0.00017	-0.00017
	(A1 * !A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * !B1 * B2 * Y)	0.00002	0.00002	0.00002
	(A1 * !A2 * !B1 * B2 * Y)	0.00025	0.00025	0.00026
	(A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00017	-0.00017	-0.00017
	(A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !B0 * B1 * B2 * Y)	0.00002	0.00002	0.00002
	(A1 * !A2 * !B0 * B1 * B2 * Y)	0.00025	0.00025	0.00026
	(!A1 * B0 * B1 * B2 * !Y)	-0.00017	-0.00017	-0.00017
	(!A1 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * B2 * !Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * B1 * B2 * !Y)	0.00025	0.00026	0.00026
	(!A1 * A2 * !B2 * Y)	-0.00017	-0.00017	-0.00017
	(!A1 * A2 * !B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * A2 * !B2 * Y)	0.00002	0.00002	0.00002
	(!A1 * A2 * !B2 * Y)	0.00026	0.00026	0.00026
	(!A1 * A2 * !B1 * B2 * Y)	-0.00017	-0.00017	-0.00017
	(!A1 * A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * A2 * !B1 * B2 * Y)	0.00002	0.00002	0.00002
	(!A1 * A2 * !B1 * B2 * Y)	0.00026	0.00026	0.00026
	(!A1 * A2 * !B0 * B1 * B2 * Y)	-0.00017	-0.00017	-0.00017
	(!A1 * A2 * !B0 * B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * B1 * B2 * Y)	0.00002	0.00002	0.00002
	(!A1 * A2 * !B0 * B1 * B2 * Y)	0.00026	0.00026	0.00026
	(!A1 * !A2 * !B2 * Y)	-0.00017	-0.00015	-0.00004
	(!A1 * !A2 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B2 * Y)	0.00002	0.00002	0.00002
	(!A1 * !A2 * !B2 * Y)	0.00025	0.00026	0.00026
	(!A1 * !A2 * !B1 * B2 * Y)	-0.00017	-0.00017	-0.00017
	(!A1 * !A2 * !B1 * B2 * Y)	-0.00001	-0.00001	0.00000
	(!A1 * !A2 * !B1 * B2 * Y)	0.00002	0.00002	0.00002
	(!A1 * !A2 * !B1 * B2 * Y)	0.00026	0.00026	0.00026
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00017	-0.00017	-0.00017
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00001	-0.00001	0.00000
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	0.00002	0.00002	0.00002
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	0.00025	0.00026	0.00026

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X1H7H	**(A1 * A2 * B0 * B1 * B2 * !Y)**	0.00012	0.00012	0.00012
	(A1 * A2 * B0 * B1 * B2 * !Y)	0.00003	0.00003	0.00003
	(A1 * A2 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * A2 * B0 * B1 * B2 * !Y)	-0.00030	-0.00030	-0.00029
	(A1 * !A2 * B0 * B1 * B2 * !Y)	0.00017	0.00017	0.00017
	(A1 * !A2 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * B1 * B2 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * B0 * B1 * B2 * !Y)	-0.00025	-0.00024	-0.00022
	(A1 * !A2 * !B2 * Y)	0.00017	0.00017	0.00017
	(A1 * !A2 * !B2 * Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * !B2 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * !B2 * Y)	-0.00025	-0.00024	-0.00023
	(A1 * !A2 * !B1 * B2 * Y)	0.00017	0.00017	0.00017
	(A1 * !A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * !B1 * B2 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * !B1 * B2 * Y)	-0.00025	-0.00024	-0.00023
	(A1 * !A2 * !B0 * B1 * B2 * Y)	0.00017	0.00017	0.00017
	(A1 * !A2 * !B0 * B1 * B2 * Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00025	-0.00024	-0.00023
	(!A1 * B0 * B1 * B2 * !Y)	0.00017	0.00017	0.00017
	(!A1 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * B2 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * B1 * B2 * !Y)	-0.00026	-0.00025	-0.00024
	(!A1 * A2 * !B2 * Y)	0.00017	0.00017	0.00017
	(!A1 * A2 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B2 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * !B2 * Y)	-0.00026	-0.00025	-0.00024
	(!A1 * A2 * !B1 * B2 * Y)	0.00017	0.00017	0.00017
	(!A1 * A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B1 * B2 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * !B1 * B2 * Y)	-0.00026	-0.00025	-0.00024
	(!A1 * A2 * !B0 * B1 * B2 * Y)	0.00017	0.00017	0.00017
	(!A1 * A2 * !B0 * B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * B1 * B2 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * !B0 * B1 * B2 * Y)	-0.00026	-0.00025	-0.00024
	(!A1 * !A2 * !B2 * Y)	0.00017	0.00017	0.00017
	(!A1 * !A2 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B2 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !A2 * !B2 * Y)	-0.00026	-0.00025	-0.00023
	(!A1 * !A2 * !B1 * B2 * Y)	0.00017	0.00017	0.00017
	(!A1 * !A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B1 * B2 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !A2 * !B1 * B2 * Y)	-0.00026	-0.00025	-0.00023
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	0.00017	0.00017	0.00017
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00026	-0.00025	-0.00023

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X1H7H	**(A0 * A2 * B0 * B1 * B2 * !Y)**	-0.00013	-0.00011	-0.00008
	(A0 * A2 * B0 * B1 * B2 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A2 * B0 * B1 * B2 * !Y)	0.00000	0.00001	0.00001
	(A0 * A2 * B0 * B1 * B2 * !Y)	0.00025	0.00025	0.00025
	(A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00018	-0.00018	-0.00018
	(A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * B0 * B1 * B2 * !Y)	0.00002	0.00002	0.00002
	(A0 * !A2 * B0 * B1 * B2 * !Y)	0.00020	0.00020	0.00020
	(A0 * !A2 * !B2 * Y)	-0.00018	-0.00018	-0.00018
	(A0 * !A2 * !B2 * Y)	-0.00002	-0.00001	-0.00001
	(A0 * !A2 * !B2 * Y)	0.00001	0.00002	0.00002
	(A0 * !A2 * !B2 * Y)	0.00020	0.00021	0.00021
	(A0 * !A2 * !B1 * B2 * Y)	-0.00018	-0.00018	-0.00018
	(A0 * !A2 * !B1 * B2 * Y)	-0.00002	-0.00001	-0.00001
	(A0 * !A2 * !B1 * B2 * Y)	0.00001	0.00002	0.00002
	(A0 * !A2 * !B1 * B2 * Y)	0.00020	0.00021	0.00021
	(A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00018	-0.00018	-0.00018
	(A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B0 * B1 * B2 * Y)	0.00001	0.00002	0.00002
	(A0 * !A2 * !B0 * B1 * B2 * Y)	0.00020	0.00021	0.00021
	(!A0 * A2 * B0 * B1 * B2 * !Y)	-0.00018	-0.00018	-0.00018
	(!A0 * A2 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B0 * B1 * B2 * !Y)	0.00002	0.00002	0.00002
	(!A0 * A2 * B0 * B1 * B2 * !Y)	0.00020	0.00020	0.00020
	(!A0 * A2 * !B2 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * A2 * !B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A2 * !B2 * Y)	0.00005	0.00005	0.00005
	(!A0 * A2 * !B2 * Y)	0.00006	0.00006	0.00006
	(!A0 * A2 * !B1 * B2 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * !B1 * B2 * Y)	0.00005	0.00005	0.00005
	(!A0 * A2 * !B1 * B2 * Y)	0.00006	0.00006	0.00006
	(!A0 * A2 * !B0 * B1 * B2 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * A2 * !B0 * B1 * B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A2 * !B0 * B1 * B2 * Y)	0.00005	0.00005	0.00005
	(!A0 * A2 * !B0 * B1 * B2 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * !B2 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !A2 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * !B2 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * !B2 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * !B1 * B2 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * !B1 * B2 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * !B1 * B2 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X1H7H	**(A0 * A2 * B0 * B1 * B2 * !Y)**	0.00012	0.00013	0.00013
	(A0 * A2 * B0 * B1 * B2 * !Y)	0.00003	0.00003	0.00003
	(A0 * A2 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A2 * B0 * B1 * B2 * !Y)	-0.00025	-0.00024	-0.00024
	(A0 * !A2 * B0 * B1 * B2 * !Y)	0.00018	0.00018	0.00018
	(A0 * !A2 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00020	-0.00019	-0.00018
	(A0 * !A2 * !B2 * Y)	0.00018	0.00018	0.00019
	(A0 * !A2 * !B2 * Y)	0.00001	0.00001	0.00002
	(A0 * !A2 * !B2 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * !A2 * !B2 * Y)	-0.00020	-0.00019	-0.00017
	(A0 * !A2 * !B1 * B2 * Y)	0.00018	0.00018	0.00019
	(A0 * !A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00002
	(A0 * !A2 * !B1 * B2 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * !A2 * !B1 * B2 * Y)	-0.00021	-0.00019	-0.00017
	(A0 * !A2 * !B0 * B1 * B2 * Y)	0.00018	0.00018	0.00019
	(A0 * !A2 * !B0 * B1 * B2 * Y)	0.00001	0.00001	0.00002
	(A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00021	-0.00019	-0.00017
	(!A0 * A2 * B0 * B1 * B2 * !Y)	0.00018	0.00018	0.00018
	(!A0 * A2 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * B0 * B1 * B2 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A2 * B0 * B1 * B2 * !Y)	-0.00020	-0.00019	-0.00018
	(!A0 * A2 * !B2 * Y)	0.00018	0.00018	0.00018
	(!A0 * A2 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * !B2 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * A2 * !B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * A2 * !B1 * B2 * Y)	0.00018	0.00018	0.00018
	(!A0 * A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * !B1 * B2 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * A2 * !B1 * B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * A2 * !B0 * B1 * B2 * Y)	0.00018	0.00018	0.00018
	(!A0 * A2 * !B0 * B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * !B0 * B1 * B2 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * A2 * !B0 * B1 * B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	0.00018	0.00018	0.00018
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * !B2 * Y)	0.00018	0.00018	0.00018
	(!A0 * !A2 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A2 * !B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * !B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * !B1 * B2 * Y)	0.00018	0.00018	0.00018
	(!A0 * !A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A2 * !B1 * B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * !B1 * B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	0.00018	0.00018	0.00018
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X1H7H	**(A0 * A1 * B0 * B1 * B2 * !Y)**	-0.00012	-0.00011	-0.00008
	(A0 * A1 * B0 * B1 * B2 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * B0 * B1 * B2 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B0 * B1 * B2 * !Y)	0.00029	0.00029	0.00030
	(!A1 * B0 * B1 * B2 * !Y)	-0.00018	-0.00017	-0.00017
	(!A1 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * B2 * !Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * B1 * B2 * !Y)	0.00024	0.00024	0.00025
	(!A1 * !B2 * Y)	-0.00029	-0.00029	-0.00029
	(!A1 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B2 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B2 * Y)	0.00005	0.00005	0.00005
	(!A1 * !B1 * B2 * Y)	-0.00029	-0.00029	-0.00028
	(!A1 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * B2 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B1 * B2 * Y)	0.00005	0.00005	0.00005
	(!A1 * !B0 * B1 * B2 * Y)	-0.00029	-0.00029	-0.00029
	(!A1 * !B0 * B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * B2 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * B1 * B2 * Y)	0.00005	0.00005	0.00005
	(!A0 * A1 * B0 * B1 * B2 * !Y)	-0.00018	-0.00017	-0.00017
	(!A0 * A1 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * B1 * B2 * !Y)	0.00002	0.00002	0.00003
	(!A0 * A1 * B0 * B1 * B2 * !Y)	0.00024	0.00024	0.00024
	(!A0 * A1 * !B2 * Y)	-0.00029	-0.00029	-0.00028
	(!A0 * A1 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B2 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * !B2 * Y)	0.00005	0.00005	0.00005
	(!A0 * A1 * !B1 * B2 * Y)	-0.00029	-0.00029	-0.00029
	(!A0 * A1 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * B2 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * !B1 * B2 * Y)	0.00005	0.00005	0.00005
	(!A0 * A1 * !B0 * B1 * B2 * Y)	-0.00029	-0.00029	-0.00029
	(!A0 * A1 * !B0 * B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * B1 * B2 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * !B0 * B1 * B2 * Y)	0.00005	0.00005	0.00005

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X1H7H	**(A0 * A1 * B0 * B1 * B2 * !Y)**	0.00012	0.00012	0.00013
	(A0 * A1 * B0 * B1 * B2 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * B0 * B1 * B2 * !Y)	-0.00029	-0.00029	-0.00029
	(!A1 * B0 * B1 * B2 * !Y)	0.00017	0.00018	0.00018
	(!A1 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * B2 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * B1 * B2 * !Y)	-0.00025	-0.00023	-0.00022
	(!A1 * !B2 * Y)	0.00029	0.00029	0.00029
	(!A1 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B2 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B2 * Y)	-0.00005	-0.00005	-0.00005
	(!A1 * !B1 * B2 * Y)	0.00029	0.00029	0.00029
	(!A1 * !B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * B2 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B1 * B2 * Y)	-0.00005	-0.00005	-0.00005
	(!A1 * !B0 * B1 * B2 * Y)	0.00029	0.00029	0.00029
	(!A1 * !B0 * B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * B2 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * B1 * B2 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * A1 * B0 * B1 * B2 * !Y)	0.00017	0.00017	0.00018
	(!A0 * A1 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * B1 * B2 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * A1 * B0 * B1 * B2 * !Y)	-0.00024	-0.00022	-0.00020
	(!A0 * A1 * !B2 * Y)	0.00029	0.00029	0.00029
	(!A0 * A1 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B2 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * !B2 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * A1 * !B1 * B2 * Y)	0.00029	0.00029	0.00029
	(!A0 * A1 * !B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * B2 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * !B1 * B2 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * A1 * !B0 * B1 * B2 * Y)	0.00029	0.00029	0.00029
	(!A0 * A1 * !B0 * B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * B1 * B2 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * !B0 * B1 * B2 * Y)	-0.00005	-0.00005	-0.00005

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X1H7H	**(A0 * A1 * A2 * B1 * B2 * !Y)**	-0.00000	-0.00000	0.00000
	(A0 * A1 * A2 * B1 * B2 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * A2 * B1 * B2 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * A2 * B1 * B2 * !Y)	0.00036	0.00036	0.00036
	(A0 * A1 * A2 * B1 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * !B2 * !Y)	-0.00004	-0.00004	-0.00003
	(A0 * A1 * A2 * B1 * !B2 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * A2 * B1 * !B2 * !Y)	0.00032	0.00032	0.00032
	(A0 * A1 * A2 * !B1 * B2 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * B2 * !Y)	-0.00004	-0.00004	-0.00003
	(A0 * A1 * A2 * !B1 * B2 * !Y)	0.00001	0.00002	0.00002
	(A0 * A1 * A2 * !B1 * B2 * !Y)	0.00032	0.00033	0.00033
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	-0.00004	-0.00004	-0.00003
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	0.00032	0.00033	0.00033
	(!A2 * B1 * !B2 * Y)	-0.00021	-0.00021	-0.00021
	(!A2 * B1 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A2 * B1 * !B2 * Y)	0.00002	0.00002	0.00002
	(!A2 * B1 * !B2 * Y)	0.00021	0.00021	0.00021
	(!A2 * !B1 * B2 * Y)	-0.00021	-0.00021	-0.00021
	(!A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A2 * !B1 * B2 * Y)	0.00002	0.00002	0.00002
	(!A2 * !B1 * B2 * Y)	0.00022	0.00022	0.00022
	(!A2 * !B1 * !B2 * Y)	-0.00021	-0.00021	-0.00021
	(!A2 * !B1 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A2 * !B1 * !B2 * Y)	0.00002	0.00002	0.00002
	(!A2 * !B1 * !B2 * Y)	0.00021	0.00021	0.00022
	(!A1 * A2 * B1 * !B2 * Y)	-0.00021	-0.00021	-0.00021
	(!A1 * A2 * B1 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * B1 * !B2 * Y)	0.00002	0.00002	0.00002
	(!A1 * A2 * B1 * !B2 * Y)	0.00021	0.00021	0.00021
	(!A1 * A2 * !B1 * B2 * Y)	-0.00021	-0.00021	-0.00021
	(!A1 * A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B1 * B2 * Y)	0.00002	0.00002	0.00002
	(!A1 * A2 * !B1 * B2 * Y)	0.00022	0.00022	0.00022
	(!A1 * A2 * !B1 * !B2 * Y)	-0.00021	-0.00021	-0.00021
	(!A1 * A2 * !B1 * !B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * A2 * !B1 * !B2 * Y)	0.00002	0.00002	0.00002
	(!A1 * A2 * !B1 * !B2 * Y)	0.00021	0.00021	0.00022
	(!A0 * A1 * A2 * B1 * !B2 * Y)	-0.00021	-0.00021	-0.00021
	(!A0 * A1 * A2 * B1 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * A2 * B1 * !B2 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * A2 * B1 * !B2 * Y)	0.00021	0.00021	0.00021
	(!A0 * A1 * A2 * !B1 * B2 * Y)	-0.00021	-0.00021	-0.00021
	(!A0 * A1 * A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * A2 * !B1 * B2 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * A2 * !B1 * B2 * Y)	0.00022	0.00022	0.00022
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	-0.00021	-0.00021	-0.00021
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	0.00021	0.00021	0.00021

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X1H7H	**(A0 * A1 * A2 * B1 * B2 * !Y)**	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * B2 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * A2 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * A2 * B1 * B2 * !Y)	-0.00036	-0.00035	-0.00035
	(A0 * A1 * A2 * B1 * !B2 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * A2 * B1 * !B2 * !Y)	0.00003	0.00004	0.00004
	(A0 * A1 * A2 * B1 * !B2 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * A2 * B1 * !B2 * !Y)	-0.00032	-0.00031	-0.00029
	(A0 * A1 * A2 * !B1 * B2 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * B2 * !Y)	0.00003	0.00004	0.00004
	(A0 * A1 * A2 * !B1 * B2 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * A2 * !B1 * B2 * !Y)	-0.00033	-0.00032	-0.00030
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	0.00003	0.00004	0.00004
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	-0.00033	-0.00032	-0.00030
	(!A2 * B1 * !B2 * Y)	0.00021	0.00021	0.00021
	(!A2 * B1 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A2 * B1 * !B2 * Y)	-0.00002	-0.00002	-0.00002
	(!A2 * B1 * !B2 * Y)	-0.00021	-0.00020	-0.00018
	(!A2 * !B1 * B2 * Y)	0.00021	0.00021	0.00021
	(!A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A2 * !B1 * B2 * Y)	-0.00002	-0.00002	-0.00002
	(!A2 * !B1 * B2 * Y)	-0.00022	-0.00020	-0.00019
	(!A2 * !B1 * !B2 * Y)	0.00021	0.00021	0.00021
	(!A2 * !B1 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A2 * !B1 * !B2 * Y)	-0.00002	-0.00002	-0.00002
	(!A2 * !B1 * !B2 * Y)	-0.00022	-0.00020	-0.00019
	(!A1 * A2 * B1 * !B2 * Y)	0.00021	0.00021	0.00021
	(!A1 * A2 * B1 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * B1 * !B2 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * B1 * !B2 * Y)	-0.00021	-0.00020	-0.00018
	(!A1 * A2 * !B1 * B2 * Y)	0.00021	0.00021	0.00021
	(!A1 * A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B1 * B2 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * !B1 * B2 * Y)	-0.00022	-0.00020	-0.00019
	(!A1 * A2 * !B1 * !B2 * Y)	0.00021	0.00021	0.00021
	(!A1 * A2 * !B1 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B1 * !B2 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * !B1 * !B2 * Y)	-0.00022	-0.00020	-0.00019
	(!A0 * A1 * A2 * B1 * !B2 * Y)	0.00021	0.00021	0.00021
	(!A0 * A1 * A2 * B1 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * A2 * B1 * !B2 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * A2 * B1 * !B2 * Y)	-0.00021	-0.00020	-0.00018
	(!A0 * A1 * A2 * !B1 * B2 * Y)	0.00021	0.00021	0.00021
	(!A0 * A1 * A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * A2 * !B1 * B2 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * A2 * !B1 * B2 * Y)	-0.00022	-0.00020	-0.00019
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	0.00021	0.00021	0.00021
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	-0.00021	-0.00020	-0.00019

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X1H7H	**(A0 * A1 * A2 * B0 * B2 * !Y)**	-0.00000	-0.00000	0.00000
	(A0 * A1 * A2 * B0 * B2 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * A2 * B0 * B2 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * A2 * B0 * B2 * !Y)	0.00032	0.00033	0.00033
	(A0 * A1 * A2 * B0 * !B2 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * A2 * B0 * !B2 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * A2 * B0 * !B2 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * A2 * B0 * !B2 * !Y)	0.00029	0.00030	0.00030
	(A0 * A1 * A2 * !B0 * B2 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * B2 * !Y)	-0.00004	-0.00004	-0.00003
	(A0 * A1 * A2 * !B0 * B2 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * A2 * !B0 * B2 * !Y)	0.00029	0.00029	0.00029
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	-0.00004	-0.00004	-0.00003
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	0.00006	0.00006	0.00006
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	0.00015	0.00015	0.00015
	(!A2 * B0 * !B2 * Y)	-0.00021	-0.00021	-0.00021
	(!A2 * B0 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A2 * B0 * !B2 * Y)	0.00002	0.00002	0.00002
	(!A2 * B0 * !B2 * Y)	0.00019	0.00019	0.00019
	(!A2 * !B0 * B2 * Y)	-0.00021	-0.00021	-0.00021
	(!A2 * !B0 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A2 * !B0 * B2 * Y)	0.00005	0.00005	0.00005
	(!A2 * !B0 * B2 * Y)	0.00004	0.00004	0.00004
	(!A2 * !B0 * !B2 * Y)	-0.00021	-0.00021	-0.00021
	(!A2 * !B0 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A2 * !B0 * !B2 * Y)	0.00006	0.00006	0.00006
	(!A2 * !B0 * !B2 * Y)	0.00004	0.00004	0.00004
	(!A1 * A2 * B0 * !B2 * Y)	-0.00021	-0.00021	-0.00021
	(!A1 * A2 * B0 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * B0 * !B2 * Y)	0.00002	0.00002	0.00002
	(!A1 * A2 * B0 * !B2 * Y)	0.00019	0.00019	0.00019
	(!A1 * A2 * !B0 * B2 * Y)	-0.00021	-0.00021	-0.00021
	(!A1 * A2 * !B0 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * B2 * Y)	0.00005	0.00005	0.00005
	(!A1 * A2 * !B0 * B2 * Y)	0.00004	0.00004	0.00004
	(!A1 * A2 * !B0 * !B2 * Y)	-0.00021	-0.00021	-0.00021
	(!A1 * A2 * !B0 * !B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * A2 * !B0 * !B2 * Y)	0.00006	0.00006	0.00006
	(!A1 * A2 * !B0 * !B2 * Y)	0.00004	0.00004	0.00004
	(!A0 * A1 * A2 * B0 * !B2 * Y)	-0.00021	-0.00021	-0.00021
	(!A0 * A1 * A2 * B0 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * A2 * B0 * !B2 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * A2 * B0 * !B2 * Y)	0.00019	0.00019	0.00019
	(!A0 * A1 * A2 * !B0 * B2 * Y)	-0.00021	-0.00021	-0.00021
	(!A0 * A1 * A2 * !B0 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * A2 * !B0 * B2 * Y)	0.00005	0.00005	0.00005
	(!A0 * A1 * A2 * !B0 * B2 * Y)	0.00004	0.00004	0.00004
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	-0.00021	-0.00021	-0.00021
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	0.00006	0.00006	0.00006
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	0.00004	0.00004	0.00004

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X1H7H	**(A0 * A1 * A2 * B0 * B2 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * B2 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * A2 * B0 * B2 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * A2 * B0 * B2 * !Y)	-0.00033	-0.00032	-0.00032
	(A0 * A1 * A2 * B0 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * !B2 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * A2 * B0 * !B2 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * A2 * B0 * !B2 * !Y)	-0.00030	-0.00029	-0.00028
	(A0 * A1 * A2 * !B0 * B2 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * A2 * !B0 * B2 * !Y)	0.00003	0.00004	0.00004
	(A0 * A1 * A2 * !B0 * B2 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * A2 * !B0 * B2 * !Y)	-0.00029	-0.00028	-0.00027
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	0.00003	0.00004	0.00004
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	-0.00015	-0.00015	-0.00015
	(!A2 * B0 * !B2 * Y)	0.00021	0.00021	0.00022
	(!A2 * B0 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A2 * B0 * !B2 * Y)	-0.00002	-0.00002	-0.00002
	(!A2 * B0 * !B2 * Y)	-0.00019	-0.00017	-0.00015
	(!A2 * !B0 * B2 * Y)	0.00021	0.00021	0.00021
	(!A2 * !B0 * B2 * Y)	0.00001	0.00001	0.00001
	(!A2 * !B0 * B2 * Y)	-0.00005	-0.00005	-0.00005
	(!A2 * !B0 * B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A2 * !B0 * !B2 * Y)	0.00021	0.00021	0.00021
	(!A2 * !B0 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A2 * !B0 * !B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A2 * !B0 * !B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * A2 * B0 * !B2 * Y)	0.00021	0.00021	0.00022
	(!A1 * A2 * B0 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * B0 * !B2 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * B0 * !B2 * Y)	-0.00019	-0.00017	-0.00015
	(!A1 * A2 * !B0 * B2 * Y)	0.00021	0.00021	0.00021
	(!A1 * A2 * !B0 * B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * B2 * Y)	-0.00005	-0.00005	-0.00005
	(!A1 * A2 * !B0 * B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * A2 * !B0 * !B2 * Y)	0.00021	0.00021	0.00021
	(!A1 * A2 * !B0 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * !B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A1 * A2 * !B0 * !B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A1 * A2 * B0 * !B2 * Y)	0.00021	0.00021	0.00022
	(!A0 * A1 * A2 * B0 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * A2 * B0 * !B2 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * A2 * B0 * !B2 * Y)	-0.00019	-0.00017	-0.00015
	(!A0 * A1 * A2 * !B0 * B2 * Y)	0.00021	0.00021	0.00021
	(!A0 * A1 * A2 * !B0 * B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * A2 * !B0 * B2 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * A1 * A2 * !B0 * B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	0.00021	0.00021	0.00021
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	-0.00004	-0.00004	-0.00004

Passive power(pJ) for B2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X1H7H	**(A0 * A1 * A2 * B0 * B1 * !Y)**	-0.00000	-0.00000	0.00000
	(A0 * A1 * A2 * B0 * B1 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * A2 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * B0 * B1 * !Y)	0.00035	0.00036	0.00036
	(A0 * A1 * A2 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !Y)	-0.00004	-0.00003	-0.00003
	(A0 * A1 * A2 * !B1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * A2 * !B1 * !Y)	0.00032	0.00032	0.00032
	(A0 * A1 * A2 * !B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * B1 * !Y)	-0.00004	-0.00003	-0.00003
	(A0 * A1 * A2 * !B0 * B1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * A2 * !B0 * B1 * !Y)	0.00031	0.00031	0.00031
	(!A2 * !B1 * Y)	-0.00032	-0.00031	-0.00031
	(!A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A2 * !B1 * Y)	0.00003	0.00003	0.00003
	(!A2 * !B1 * Y)	0.00003	0.00003	0.00003
	(!A2 * !B0 * B1 * Y)	-0.00032	-0.00031	-0.00031
	(!A2 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A2 * !B0 * B1 * Y)	0.00003	0.00003	0.00003
	(!A2 * !B0 * B1 * Y)	0.00003	0.00003	0.00003
	(!A1 * A2 * !B1 * Y)	-0.00032	-0.00031	-0.00031
	(!A1 * A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B1 * Y)	0.00003	0.00003	0.00003
	(!A1 * A2 * !B1 * Y)	0.00003	0.00003	0.00003
	(!A1 * A2 * !B0 * B1 * Y)	-0.00032	-0.00031	-0.00031
	(!A1 * A2 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * B1 * Y)	0.00003	0.00003	0.00003
	(!A1 * A2 * !B0 * B1 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * A2 * !B1 * Y)	-0.00032	-0.00031	-0.00031
	(!A0 * A1 * A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * A2 * !B1 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * A2 * !B1 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * A2 * !B0 * B1 * Y)	-0.00032	-0.00031	-0.00031
	(!A0 * A1 * A2 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * A2 * !B0 * B1 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * A2 * !B0 * B1 * Y)	0.00003	0.00003	0.00003

Passive power(pJ) for B2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X1H7H	**(A0 * A1 * A2 * B0 * B1 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * B1 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * A2 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * A2 * B0 * B1 * !Y)	-0.00036	-0.00035	-0.00035
	(A0 * A1 * A2 * !B1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !Y)	0.00003	0.00004	0.00004
	(A0 * A1 * A2 * !B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * A2 * !B1 * !Y)	-0.00032	-0.00031	-0.00030
	(A0 * A1 * A2 * !B0 * B1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * A2 * !B0 * B1 * !Y)	0.00003	0.00003	0.00004
	(A0 * A1 * A2 * !B0 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * A2 * !B0 * B1 * !Y)	-0.00031	-0.00029	-0.00027
	(!A2 * !B1 * Y)	0.00031	0.00031	0.00032
	(!A2 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A2 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A2 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A2 * !B0 * B1 * Y)	0.00031	0.00031	0.00032
	(!A2 * !B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A2 * !B0 * B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A2 * !B0 * B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * A2 * !B1 * Y)	0.00031	0.00031	0.00032
	(!A1 * A2 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * A2 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * A2 * !B0 * B1 * Y)	0.00031	0.00031	0.00032
	(!A1 * A2 * !B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * A2 * !B0 * B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * A2 * !B1 * Y)	0.00031	0.00031	0.00032
	(!A0 * A1 * A2 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * A2 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * A2 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * A2 * !B0 * B1 * Y)	0.00031	0.00031	0.00032
	(!A0 * A1 * A2 * !B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * A2 * !B0 * B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * A2 * !B0 * B1 * Y)	-0.00003	-0.00003	-0.00003

AOI33X1P4H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

AOI

Y=! (A0 & A1 & A2)+ (B0 & B1 & B2)

Truth Table

INPUT						OUTPUT
A0	**A1**	**A2**	**B0**	**B1**	**B2**	**Y**
0	**x**	**x**	**0**	**x**	**x**	**1**
0	**x**	**x**	**1**	**0**	**x**	**1**
0	**x**	**x**	**1**	**1**	**0**	**1**
x	**x**	**x**	**1**	**1**	**1**	**0**
1	**0**	**x**	**0**	**x**	**x**	**1**
1	**0**	**x**	**1**	**0**	**x**	**1**
1	**0**	**x**	**1**	**1**	**0**	**1**
1	**1**	**0**	**0**	**x**	**x**	**1**
1	**1**	**0**	**1**	**0**	**x**	**1**
1	**1**	**0**	**1**	**1**	**0**	**1**
1	**1**	**1**	**x**	**x**	**x**	**0**

Footprint

Cell Name	Area
AOI33X1P4H7H	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	**A1**	**A2**	**B0**	**B1**	**B2**	**Y**
AOI33X1P4H7H	0.00090	0.00092	0.00107	0.00099	0.00104	0.00111	0.02256

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
AOI33X1P4H7H	0.00000	0.01900	0.03884

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI33X1P4H7H	A0->Y (FR)	0.07840	0.26186	0.76792
	A1->Y (FR)	0.07413	0.25630	0.76314
	A2->Y (FR)	0.06996	0.25086	0.75695
	B0->Y (FR)	0.06368	0.24064	0.74377
	B1->Y (FR)	0.05911	0.23445	0.73818
	B2->Y (FR)	0.05434	0.22835	0.73277

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI33X1P4H7H	A0->Y (RF)	0.07272	0.24329	0.71525
	A1->Y (RF)	0.07067	0.24626	0.74225
	A2->Y (RF)	0.06666	0.23679	0.72534
	B0->Y (RF)	0.05271	0.21912	0.69176
	B1->Y (RF)	0.05018	0.22064	0.71827
	B2->Y (RF)	0.04507	0.20953	0.70392

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI33X1P4H7H	A0	0.00246	0.00251	0.00253
	A0	-0.00033	-0.00033	-0.00032
	A0	0.00030	0.00030	0.00030
	A0	-0.00015	-0.00014	-0.00012
	A1	0.00233	0.00236	0.00238
	A1	-0.00035	-0.00033	-0.00031
	A1	0.00024	0.00025	0.00025
	A1	-0.00010	-0.00007	-0.00005
	A2	0.00216	0.00221	0.00224
	A2	-0.00033	-0.00033	-0.00031
	A2	0.00018	0.00019	0.00023
	A2	-0.00012	-0.00007	-0.00001
	B0	0.00172	0.00180	0.00183
	B0	-0.00013	-0.00013	-0.00001
	B0	0.00030	0.00030	0.00030
	B0	-0.00019	-0.00016	-0.00014
	B1	0.00158	0.00164	0.00168
	B1	-0.00013	-0.00013	-0.00005
	B1	0.00024	0.00024	0.00025
	B1	-0.00016	-0.00012	-0.00010
	B2	0.00143	0.00149	0.00154
	B2	-0.00014	-0.00013	-0.00004
	B2	0.00018	0.00019	0.00019
	B2	-0.00016	-0.00011	-0.00007

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI33X1P4H7H	A0	-0.00013	-0.00010	-0.00009
	A0	0.00034	0.00034	0.00036
	A0	-0.00019	-0.00019	-0.00018
	A0	0.00253	0.00256	0.00258
	A1	-0.00013	-0.00011	-0.00009
	A1	0.00035	0.00035	0.00035
	A1	-0.00013	-0.00013	-0.00011
	A1	0.00223	0.00229	0.00232
	A2	-0.00016	-0.00012	-0.00009
	A2	0.00034	0.00034	0.00038
	A2	-0.00014	-0.00013	-0.00004
	A2	0.00201	0.00209	0.00213
	B0	-0.00009	-0.00005	0.00006
	B0	0.00003	0.00014	0.00026
	B0	-0.00019	-0.00018	-0.00018
	B0	0.00204	0.00208	0.00211
	B1	-0.00023	-0.00006	-0.00000
	B1	0.00005	0.00014	0.00034
	B1	-0.00013	-0.00013	-0.00013
	B1	0.00180	0.00184	0.00186
	B2	-0.00013	-0.00006	0.00002
	B2	0.00004	0.00013	0.00023
	B2	-0.00007	-0.00007	-0.00007
	B2	0.00156	0.00162	0.00166

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X1P4H7H	**(A1 * A2 * B0 * B1 * B2 * !Y)**	-0.00014	-0.00012	-0.00009
	(A1 * A2 * B0 * B1 * B2 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * A2 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(A1 * A2 * B0 * B1 * B2 * !Y)	0.00031	0.00031	0.00032
	(A1 * !A2 * B0 * B1 * B2 * !Y)	-0.00019	-0.00019	-0.00019
	(A1 * !A2 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * B1 * B2 * !Y)	0.00002	0.00002	0.00002
	(A1 * !A2 * B0 * B1 * B2 * !Y)	0.00026	0.00026	0.00026
	(A1 * !A2 * !B2 * Y)	-0.00019	-0.00019	-0.00019
	(A1 * !A2 * !B2 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * !B2 * Y)	0.00002	0.00002	0.00002
	(A1 * !A2 * !B2 * Y)	0.00026	0.00026	0.00027
	(A1 * !A2 * !B1 * B2 * Y)	-0.00019	-0.00019	-0.00019
	(A1 * !A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * !B1 * B2 * Y)	0.00002	0.00002	0.00002
	(A1 * !A2 * !B1 * B2 * Y)	0.00026	0.00026	0.00026
	(A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00019	-0.00019	-0.00019
	(A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * !B0 * B1 * B2 * Y)	0.00002	0.00002	0.00002
	(A1 * !A2 * !B0 * B1 * B2 * Y)	0.00026	0.00026	0.00027
	(!A1 * B0 * B1 * B2 * !Y)	-0.00019	-0.00019	-0.00019
	(!A1 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * B2 * !Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * B1 * B2 * !Y)	0.00027	0.00027	0.00027
	(!A1 * A2 * !B2 * Y)	-0.00019	-0.00019	-0.00019
	(!A1 * A2 * !B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * A2 * !B2 * Y)	0.00002	0.00002	0.00002
	(!A1 * A2 * !B2 * Y)	0.00027	0.00027	0.00027
	(!A1 * A2 * !B1 * B2 * Y)	-0.00019	-0.00019	-0.00019
	(!A1 * A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * A2 * !B1 * B2 * Y)	0.00002	0.00002	0.00002
	(!A1 * A2 * !B1 * B2 * Y)	0.00027	0.00027	0.00027
	(!A1 * A2 * !B0 * B1 * B2 * Y)	-0.00019	-0.00019	-0.00019
	(!A1 * A2 * !B0 * B1 * B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * A2 * !B0 * B1 * B2 * Y)	0.00002	0.00002	0.00002
	(!A1 * A2 * !B0 * B1 * B2 * Y)	0.00027	0.00027	0.00027
	(!A1 * !A2 * !B2 * Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !A2 * !B2 * Y)	-0.00001	-0.00001	0.00002
	(!A1 * !A2 * !B2 * Y)	0.00002	0.00002	0.00002
	(!A1 * !A2 * !B2 * Y)	0.00027	0.00027	0.00027
	(!A1 * !A2 * !B1 * B2 * Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !A2 * !B1 * B2 * Y)	-0.00001	-0.00001	0.00000
	(!A1 * !A2 * !B1 * B2 * Y)	0.00002	0.00002	0.00002
	(!A1 * !A2 * !B1 * B2 * Y)	0.00027	0.00027	0.00027
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00001	-0.00001	0.00000
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	0.00002	0.00002	0.00002
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	0.00027	0.00027	0.00027

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X1P4H7H	**(A1 * A2 * B0 * B1 * B2 * !Y)**	0.00014	0.00014	0.00014
	(A1 * A2 * B0 * B1 * B2 * !Y)	0.00003	0.00003	0.00003
	(A1 * A2 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B0 * B1 * B2 * !Y)	-0.00031	-0.00031	-0.00031
	(A1 * !A2 * B0 * B1 * B2 * !Y)	0.00019	0.00019	0.00019
	(A1 * !A2 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * B1 * B2 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * B0 * B1 * B2 * !Y)	-0.00026	-0.00025	-0.00023
	(A1 * !A2 * !B2 * Y)	0.00019	0.00019	0.00019
	(A1 * !A2 * !B2 * Y)	0.00000	0.00001	0.00001
	(A1 * !A2 * !B2 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * !B2 * Y)	-0.00026	-0.00025	-0.00023
	(A1 * !A2 * !B1 * B2 * Y)	0.00019	0.00019	0.00019
	(A1 * !A2 * !B1 * B2 * Y)	0.00000	0.00001	0.00001
	(A1 * !A2 * !B1 * B2 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * !B1 * B2 * Y)	-0.00026	-0.00025	-0.00023
	(A1 * !A2 * !B0 * B1 * B2 * Y)	0.00019	0.00019	0.00019
	(A1 * !A2 * !B0 * B1 * B2 * Y)	0.00000	0.00001	0.00001
	(A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00026	-0.00025	-0.00023
	(!A1 * B0 * B1 * B2 * !Y)	0.00019	0.00019	0.00019
	(!A1 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * B2 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * B1 * B2 * !Y)	-0.00027	-0.00026	-0.00025
	(!A1 * A2 * !B2 * Y)	0.00019	0.00019	0.00019
	(!A1 * A2 * !B2 * Y)	0.00000	0.00001	0.00001
	(!A1 * A2 * !B2 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * !B2 * Y)	-0.00027	-0.00026	-0.00024
	(!A1 * A2 * !B1 * B2 * Y)	0.00019	0.00019	0.00019
	(!A1 * A2 * !B1 * B2 * Y)	0.00000	0.00001	0.00001
	(!A1 * A2 * !B1 * B2 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * !B1 * B2 * Y)	-0.00027	-0.00026	-0.00024
	(!A1 * A2 * !B0 * B1 * B2 * Y)	0.00019	0.00019	0.00019
	(!A1 * A2 * !B0 * B1 * B2 * Y)	0.00000	0.00001	0.00001
	(!A1 * A2 * !B0 * B1 * B2 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * !B0 * B1 * B2 * Y)	-0.00027	-0.00026	-0.00024
	(!A1 * !A2 * !B2 * Y)	0.00019	0.00019	0.00019
	(!A1 * !A2 * !B2 * Y)	0.00001	0.00001	0.00002
	(!A1 * !A2 * !B2 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !A2 * !B2 * Y)	-0.00027	-0.00026	-0.00024
	(!A1 * !A2 * !B1 * B2 * Y)	0.00019	0.00019	0.00019
	(!A1 * !A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00002
	(!A1 * !A2 * !B1 * B2 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !A2 * !B1 * B2 * Y)	-0.00027	-0.00026	-0.00024
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	0.00019	0.00019	0.00019
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	0.00001	0.00001	0.00002
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00027	-0.00026	-0.00024

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X1P4H7H	**(A0 * A2 * B0 * B1 * B2 * !Y)**	-0.00014	-0.00012	-0.00009
	(A0 * A2 * B0 * B1 * B2 * !Y)	-0.00004	-0.00003	-0.00003
	(A0 * A2 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(A0 * A2 * B0 * B1 * B2 * !Y)	0.00026	0.00026	0.00026
	(A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00020	-0.00020	-0.00020
	(A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * B0 * B1 * B2 * !Y)	0.00002	0.00002	0.00002
	(A0 * !A2 * B0 * B1 * B2 * !Y)	0.00021	0.00021	0.00021
	(A0 * !A2 * !B2 * Y)	-0.00020	-0.00020	-0.00020
	(A0 * !A2 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B2 * Y)	0.00002	0.00002	0.00002
	(A0 * !A2 * !B2 * Y)	0.00022	0.00022	0.00022
	(A0 * !A2 * !B1 * B2 * Y)	-0.00020	-0.00020	-0.00020
	(A0 * !A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B1 * B2 * Y)	0.00002	0.00002	0.00002
	(A0 * !A2 * !B1 * B2 * Y)	0.00022	0.00022	0.00022
	(A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00020	-0.00020	-0.00020
	(A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B0 * B1 * B2 * Y)	0.00002	0.00002	0.00002
	(A0 * !A2 * !B0 * B1 * B2 * Y)	0.00022	0.00022	0.00022
	(!A0 * A2 * B0 * B1 * B2 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * A2 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B0 * B1 * B2 * !Y)	0.00002	0.00002	0.00002
	(!A0 * A2 * B0 * B1 * B2 * !Y)	0.00021	0.00021	0.00021
	(!A0 * A2 * !B2 * Y)	-0.00020	-0.00020	-0.00020
	(!A0 * A2 * !B2 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * A2 * !B2 * Y)	0.00006	0.00006	0.00006
	(!A0 * A2 * !B2 * Y)	0.00006	0.00006	0.00006
	(!A0 * A2 * !B1 * B2 * Y)	-0.00020	-0.00020	-0.00020
	(!A0 * A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A2 * !B1 * B2 * Y)	0.00006	0.00006	0.00006
	(!A0 * A2 * !B1 * B2 * Y)	0.00006	0.00006	0.00006
	(!A0 * A2 * !B0 * B1 * B2 * Y)	-0.00020	-0.00020	-0.00020
	(!A0 * A2 * !B0 * B1 * B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A2 * !B0 * B1 * B2 * Y)	0.00006	0.00006	0.00006
	(!A0 * A2 * !B0 * B1 * B2 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	0.00007	0.00007	0.00007
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * !B2 * Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !A2 * !B2 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !A2 * !B2 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A2 * !B2 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * !B1 * B2 * Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * !B1 * B2 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A2 * !B1 * B2 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X1P4H7H	**(A0 * A2 * B0 * B1 * B2 * !Y)**	0.00014	0.00014	0.00014
	(A0 * A2 * B0 * B1 * B2 * !Y)	0.00003	0.00003	0.00004
	(A0 * A2 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A2 * B0 * B1 * B2 * !Y)	-0.00026	-0.00026	-0.00025
	(A0 * !A2 * B0 * B1 * B2 * !Y)	0.00020	0.00020	0.00020
	(A0 * !A2 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00002
	(A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00021	-0.00020	-0.00019
	(A0 * !A2 * !B2 * Y)	0.00020	0.00020	0.00021
	(A0 * !A2 * !B2 * Y)	0.00001	0.00001	0.00002
	(A0 * !A2 * !B2 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A2 * !B2 * Y)	-0.00022	-0.00020	-0.00018
	(A0 * !A2 * !B1 * B2 * Y)	0.00020	0.00020	0.00021
	(A0 * !A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00002
	(A0 * !A2 * !B1 * B2 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A2 * !B1 * B2 * Y)	-0.00022	-0.00020	-0.00018
	(A0 * !A2 * !B0 * B1 * B2 * Y)	0.00020	0.00020	0.00021
	(A0 * !A2 * !B0 * B1 * B2 * Y)	0.00001	0.00001	0.00002
	(A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00022	-0.00020	-0.00018
	(!A0 * A2 * B0 * B1 * B2 * !Y)	0.00020	0.00020	0.00020
	(!A0 * A2 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * B0 * B1 * B2 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A2 * B0 * B1 * B2 * !Y)	-0.00021	-0.00020	-0.00019
	(!A0 * A2 * !B2 * Y)	0.00020	0.00020	0.00020
	(!A0 * A2 * !B2 * Y)	0.00001	0.00001	0.00002
	(!A0 * A2 * !B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * A2 * !B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * A2 * !B1 * B2 * Y)	0.00020	0.00020	0.00020
	(!A0 * A2 * !B1 * B2 * Y)	0.00000	0.00001	0.00001
	(!A0 * A2 * !B1 * B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * A2 * !B1 * B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * A2 * !B0 * B1 * B2 * Y)	0.00020	0.00020	0.00020
	(!A0 * A2 * !B0 * B1 * B2 * Y)	0.00000	0.00001	0.00001
	(!A0 * A2 * !B0 * B1 * B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * A2 * !B0 * B1 * B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * !B2 * Y)	0.00020	0.00020	0.00020
	(!A0 * !A2 * !B2 * Y)	0.00001	0.00001	0.00002
	(!A0 * !A2 * !B2 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A2 * !B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * !B1 * B2 * Y)	0.00020	0.00020	0.00020
	(!A0 * !A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00002
	(!A0 * !A2 * !B1 * B2 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A2 * !B1 * B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	0.00020	0.00020	0.00020
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	0.00001	0.00001	0.00002
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X1P4H7H	**(A0 * A1 * B0 * B1 * B2 * !Y)**	-0.00014	-0.00012	-0.00009
	(A0 * A1 * B0 * B1 * B2 * !Y)	-0.00004	-0.00003	-0.00003
	(A0 * A1 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * B1 * B2 * !Y)	0.00030	0.00030	0.00030
	(!A1 * B0 * B1 * B2 * !Y)	-0.00020	-0.00020	-0.00020
	(!A1 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * B2 * !Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * B1 * B2 * !Y)	0.00025	0.00026	0.00026
	(!A1 * !B2 * Y)	-0.00032	-0.00032	-0.00031
	(!A1 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B2 * Y)	0.00004	0.00004	0.00004
	(!A1 * !B2 * Y)	0.00005	0.00005	0.00005
	(!A1 * !B1 * B2 * Y)	-0.00032	-0.00032	-0.00031
	(!A1 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * B2 * Y)	0.00004	0.00004	0.00004
	(!A1 * !B1 * B2 * Y)	0.00005	0.00005	0.00005
	(!A1 * !B0 * B1 * B2 * Y)	-0.00032	-0.00032	-0.00031
	(!A1 * !B0 * B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * B2 * Y)	0.00004	0.00004	0.00004
	(!A1 * !B0 * B1 * B2 * Y)	0.00005	0.00005	0.00005
	(!A0 * A1 * B0 * B1 * B2 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * A1 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * B1 * B2 * !Y)	0.00001	0.00002	0.00003
	(!A0 * A1 * B0 * B1 * B2 * !Y)	0.00025	0.00025	0.00025
	(!A0 * A1 * !B2 * Y)	-0.00032	-0.00032	-0.00031
	(!A0 * A1 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B2 * Y)	0.00004	0.00004	0.00004
	(!A0 * A1 * !B2 * Y)	0.00005	0.00005	0.00006
	(!A0 * A1 * !B1 * B2 * Y)	-0.00032	-0.00032	-0.00031
	(!A0 * A1 * !B1 * B2 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * A1 * !B1 * B2 * Y)	0.00004	0.00004	0.00004
	(!A0 * A1 * !B1 * B2 * Y)	0.00005	0.00005	0.00006
	(!A0 * A1 * !B0 * B1 * B2 * Y)	-0.00032	-0.00032	-0.00031
	(!A0 * A1 * !B0 * B1 * B2 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * A1 * !B0 * B1 * B2 * Y)	0.00004	0.00004	0.00004
	(!A0 * A1 * !B0 * B1 * B2 * Y)	0.00005	0.00005	0.00006

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X1P4H7H	**(A0 * A1 * B0 * B1 * B2 * !Y)**	0.00014	0.00014	0.00014
	(A0 * A1 * B0 * B1 * B2 * !Y)	0.00003	0.00003	0.00004
	(A0 * A1 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B0 * B1 * B2 * !Y)	-0.00030	-0.00030	-0.00030
	(!A1 * B0 * B1 * B2 * !Y)	0.00020	0.00020	0.00020
	(!A1 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * B2 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * B1 * B2 * !Y)	-0.00026	-0.00025	-0.00023
	(!A1 * !B2 * Y)	0.00032	0.00032	0.00032
	(!A1 * !B2 * Y)	0.00001	0.00001	0.00002
	(!A1 * !B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * !B2 * Y)	-0.00005	-0.00005	-0.00005
	(!A1 * !B1 * B2 * Y)	0.00032	0.00032	0.00032
	(!A1 * !B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * !B1 * B2 * Y)	-0.00005	-0.00005	-0.00005
	(!A1 * !B0 * B1 * B2 * Y)	0.00032	0.00032	0.00032
	(!A1 * !B0 * B1 * B2 * Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * B1 * B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * !B0 * B1 * B2 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * A1 * B0 * B1 * B2 * !Y)	0.00020	0.00020	0.00020
	(!A0 * A1 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * B1 * B2 * !Y)	-0.00003	-0.00002	-0.00001
	(!A0 * A1 * B0 * B1 * B2 * !Y)	-0.00025	-0.00023	-0.00020
	(!A0 * A1 * !B2 * Y)	0.00032	0.00032	0.00032
	(!A0 * A1 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A1 * !B2 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * A1 * !B1 * B2 * Y)	0.00032	0.00032	0.00032
	(!A0 * A1 * !B1 * B2 * Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * !B1 * B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A1 * !B1 * B2 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * A1 * !B0 * B1 * B2 * Y)	0.00032	0.00032	0.00032
	(!A0 * A1 * !B0 * B1 * B2 * Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * !B0 * B1 * B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A1 * !B0 * B1 * B2 * Y)	-0.00005	-0.00005	-0.00005

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X1P4H7H	**(A0 * A1 * A2 * B1 * B2 * !Y)**	-0.00000	-0.00000	0.00000
	(A0 * A1 * A2 * B1 * B2 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * A2 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * B1 * B2 * !Y)	0.00037	0.00037	0.00037
	(A0 * A1 * A2 * B1 * !B2 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * !B2 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * A2 * B1 * !B2 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * A2 * B1 * !B2 * !Y)	0.00033	0.00033	0.00034
	(A0 * A1 * A2 * !B1 * B2 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * B2 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * A2 * !B1 * B2 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * A2 * !B1 * B2 * !Y)	0.00034	0.00034	0.00034
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	0.00034	0.00034	0.00034
	(!A2 * B1 * !B2 * Y)	-0.00023	-0.00023	-0.00023
	(!A2 * B1 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A2 * B1 * !B2 * Y)	0.00002	0.00002	0.00002
	(!A2 * B1 * !B2 * Y)	0.00022	0.00022	0.00022
	(!A2 * !B1 * B2 * Y)	-0.00023	-0.00023	-0.00023
	(!A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A2 * !B1 * B2 * Y)	0.00002	0.00002	0.00002
	(!A2 * !B1 * B2 * Y)	0.00023	0.00023	0.00023
	(!A2 * !B1 * !B2 * Y)	-0.00023	-0.00023	-0.00023
	(!A2 * !B1 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A2 * !B1 * !B2 * Y)	0.00002	0.00002	0.00002
	(!A2 * !B1 * !B2 * Y)	0.00022	0.00023	0.00023
	(!A1 * A2 * B1 * !B2 * Y)	-0.00023	-0.00023	-0.00023
	(!A1 * A2 * B1 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * B1 * !B2 * Y)	0.00002	0.00002	0.00002
	(!A1 * A2 * B1 * !B2 * Y)	0.00022	0.00022	0.00022
	(!A1 * A2 * !B1 * B2 * Y)	-0.00023	-0.00023	-0.00023
	(!A1 * A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B1 * B2 * Y)	0.00002	0.00002	0.00002
	(!A1 * A2 * !B1 * B2 * Y)	0.00023	0.00023	0.00023
	(!A1 * A2 * !B1 * !B2 * Y)	-0.00023	-0.00023	-0.00023
	(!A1 * A2 * !B1 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B1 * !B2 * Y)	0.00002	0.00002	0.00002
	(!A1 * A2 * !B1 * !B2 * Y)	0.00022	0.00023	0.00023
	(!A0 * A1 * A2 * B1 * !B2 * Y)	-0.00023	-0.00023	-0.00023
	(!A0 * A1 * A2 * B1 * !B2 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * A1 * A2 * B1 * !B2 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * A2 * B1 * !B2 * Y)	0.00022	0.00022	0.00022
	(!A0 * A1 * A2 * !B1 * B2 * Y)	-0.00023	-0.00023	-0.00023
	(!A0 * A1 * A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * A2 * !B1 * B2 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * A2 * !B1 * B2 * Y)	0.00023	0.00023	0.00023
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	-0.00023	-0.00023	-0.00023
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	0.00022	0.00023	0.00023

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X1P4H7H	**(A0 * A1 * A2 * B1 * B2 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * B2 * !Y)	0.00004	0.00005	0.00005
	(A0 * A1 * A2 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * B1 * B2 * !Y)	-0.00037	-0.00037	-0.00036
	(A0 * A1 * A2 * B1 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * !B2 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * A2 * B1 * !B2 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * A2 * B1 * !B2 * !Y)	-0.00034	-0.00032	-0.00030
	(A0 * A1 * A2 * !B1 * B2 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * B2 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * A2 * !B1 * B2 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * A2 * !B1 * B2 * !Y)	-0.00034	-0.00033	-0.00032
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	-0.00034	-0.00033	-0.00031
	(!A2 * B1 * !B2 * Y)	0.00023	0.00023	0.00023
	(!A2 * B1 * !B2 * Y)	0.00001	0.00001	0.00002
	(!A2 * B1 * !B2 * Y)	-0.00002	-0.00002	-0.00002
	(!A2 * B1 * !B2 * Y)	-0.00022	-0.00021	-0.00019
	(!A2 * !B1 * B2 * Y)	0.00023	0.00023	0.00023
	(!A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A2 * !B1 * B2 * Y)	-0.00002	-0.00002	-0.00002
	(!A2 * !B1 * B2 * Y)	-0.00023	-0.00022	-0.00020
	(!A2 * !B1 * !B2 * Y)	0.00023	0.00023	0.00023
	(!A2 * !B1 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A2 * !B1 * !B2 * Y)	-0.00002	-0.00002	-0.00002
	(!A2 * !B1 * !B2 * Y)	-0.00023	-0.00022	-0.00020
	(!A1 * A2 * B1 * !B2 * Y)	0.00023	0.00023	0.00023
	(!A1 * A2 * B1 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * B1 * !B2 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * B1 * !B2 * Y)	-0.00022	-0.00021	-0.00019
	(!A1 * A2 * !B1 * B2 * Y)	0.00023	0.00023	0.00023
	(!A1 * A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B1 * B2 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * !B1 * B2 * Y)	-0.00023	-0.00022	-0.00020
	(!A1 * A2 * !B1 * !B2 * Y)	0.00023	0.00023	0.00023
	(!A1 * A2 * !B1 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B1 * !B2 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * !B1 * !B2 * Y)	-0.00023	-0.00022	-0.00020
	(!A0 * A1 * A2 * B1 * !B2 * Y)	0.00023	0.00023	0.00023
	(!A0 * A1 * A2 * B1 * !B2 * Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * A2 * B1 * !B2 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * A2 * B1 * !B2 * Y)	-0.00022	-0.00021	-0.00019
	(!A0 * A1 * A2 * !B1 * B2 * Y)	0.00023	0.00023	0.00023
	(!A0 * A1 * A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * A2 * !B1 * B2 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * A2 * !B1 * B2 * Y)	-0.00023	-0.00022	-0.00020
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	0.00023	0.00023	0.00023
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	-0.00023	-0.00022	-0.00020

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X1P4H7H	**(A0 * A1 * A2 * B0 * B2 * !Y)**	-0.00000	-0.00000	0.00000
	(A0 * A1 * A2 * B0 * B2 * !Y)	-0.00005	-0.00004	-0.00004
	(A0 * A1 * A2 * B0 * B2 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * B0 * B2 * !Y)	0.00035	0.00035	0.00035
	(A0 * A1 * A2 * B0 * !B2 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * !B2 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * A2 * B0 * !B2 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * A2 * B0 * !B2 * !Y)	0.00031	0.00031	0.00032
	(A0 * A1 * A2 * !B0 * B2 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * B2 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * A2 * !B0 * B2 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * A2 * !B0 * B2 * !Y)	0.00031	0.00031	0.00031
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	0.00007	0.00007	0.00007
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	0.00016	0.00016	0.00016
	(!A2 * B0 * !B2 * Y)	-0.00024	-0.00024	-0.00023
	(!A2 * B0 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A2 * B0 * !B2 * Y)	0.00002	0.00002	0.00002
	(!A2 * B0 * !B2 * Y)	0.00020	0.00020	0.00020
	(!A2 * !B0 * B2 * Y)	-0.00024	-0.00024	-0.00024
	(!A2 * !B0 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A2 * !B0 * B2 * Y)	0.00006	0.00006	0.00006
	(!A2 * !B0 * B2 * Y)	0.00004	0.00004	0.00004
	(!A2 * !B0 * !B2 * Y)	-0.00024	-0.00024	-0.00023
	(!A2 * !B0 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A2 * !B0 * !B2 * Y)	0.00007	0.00007	0.00007
	(!A2 * !B0 * !B2 * Y)	0.00004	0.00004	0.00004
	(!A1 * A2 * B0 * !B2 * Y)	-0.00024	-0.00024	-0.00023
	(!A1 * A2 * B0 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * B0 * !B2 * Y)	0.00002	0.00002	0.00002
	(!A1 * A2 * B0 * !B2 * Y)	0.00020	0.00020	0.00020
	(!A1 * A2 * !B0 * B2 * Y)	-0.00024	-0.00024	-0.00024
	(!A1 * A2 * !B0 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * B2 * Y)	0.00006	0.00006	0.00006
	(!A1 * A2 * !B0 * B2 * Y)	0.00004	0.00004	0.00004
	(!A1 * A2 * !B0 * !B2 * Y)	-0.00024	-0.00024	-0.00023
	(!A1 * A2 * !B0 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * !B2 * Y)	0.00007	0.00007	0.00007
	(!A1 * A2 * !B0 * !B2 * Y)	0.00004	0.00004	0.00004
	(!A0 * A1 * A2 * B0 * !B2 * Y)	-0.00024	-0.00024	-0.00023
	(!A0 * A1 * A2 * B0 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * A2 * B0 * !B2 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * A2 * B0 * !B2 * Y)	0.00020	0.00020	0.00020
	(!A0 * A1 * A2 * !B0 * B2 * Y)	-0.00024	-0.00024	-0.00024
	(!A0 * A1 * A2 * !B0 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * A2 * !B0 * B2 * Y)	0.00006	0.00006	0.00006
	(!A0 * A1 * A2 * !B0 * B2 * Y)	0.00004	0.00004	0.00004
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	-0.00024	-0.00024	-0.00023
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	0.00007	0.00007	0.00007
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	0.00004	0.00004	0.00004

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X1P4H7H	**(A0 * A1 * A2 * B0 * B2 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * B2 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * A2 * B0 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * B0 * B2 * !Y)	-0.00035	-0.00034	-0.00034
	(A0 * A1 * A2 * B0 * !B2 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * !B2 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * A2 * B0 * !B2 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * A2 * B0 * !B2 * !Y)	-0.00032	-0.00031	-0.00029
	(A0 * A1 * A2 * !B0 * B2 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * B2 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * A2 * !B0 * B2 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * A2 * !B0 * B2 * !Y)	-0.00031	-0.00030	-0.00029
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	-0.00007	-0.00007	-0.00007
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	-0.00016	-0.00016	-0.00016
	(!A2 * B0 * !B2 * Y)	0.00024	0.00024	0.00025
	(!A2 * B0 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A2 * B0 * !B2 * Y)	-0.00002	-0.00002	-0.00002
	(!A2 * B0 * !B2 * Y)	-0.00020	-0.00019	-0.00017
	(!A2 * !B0 * B2 * Y)	0.00024	0.00024	0.00024
	(!A2 * !B0 * B2 * Y)	0.00001	0.00001	0.00001
	(!A2 * !B0 * B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A2 * !B0 * B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A2 * !B0 * !B2 * Y)	0.00024	0.00024	0.00024
	(!A2 * !B0 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A2 * !B0 * !B2 * Y)	-0.00007	-0.00007	-0.00007
	(!A2 * !B0 * !B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * A2 * B0 * !B2 * Y)	0.00024	0.00024	0.00025
	(!A1 * A2 * B0 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * B0 * !B2 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * B0 * !B2 * Y)	-0.00020	-0.00019	-0.00017
	(!A1 * A2 * !B0 * B2 * Y)	0.00024	0.00024	0.00024
	(!A1 * A2 * !B0 * B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A1 * A2 * !B0 * B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * A2 * !B0 * !B2 * Y)	0.00024	0.00024	0.00024
	(!A1 * A2 * !B0 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * !B2 * Y)	-0.00007	-0.00007	-0.00007
	(!A1 * A2 * !B0 * !B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A1 * A2 * B0 * !B2 * Y)	0.00024	0.00024	0.00025
	(!A0 * A1 * A2 * B0 * !B2 * Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * A2 * B0 * !B2 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * A2 * B0 * !B2 * Y)	-0.00020	-0.00019	-0.00017
	(!A0 * A1 * A2 * !B0 * B2 * Y)	0.00024	0.00024	0.00024
	(!A0 * A1 * A2 * !B0 * B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * A2 * !B0 * B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * A1 * A2 * !B0 * B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	0.00024	0.00024	0.00024
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	-0.00004	-0.00004	-0.00004

Passive power(pJ) for B2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X1P4H7H	**(A0 * A1 * A2 * B0 * B1 * !Y)**	-0.00000	-0.00000	0.00000
	(A0 * A1 * A2 * B0 * B1 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * A2 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * B0 * B1 * !Y)	0.00037	0.00038	0.00038
	(A0 * A1 * A2 * !B1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * A2 * !B1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * A2 * !B1 * !Y)	0.00034	0.00034	0.00034
	(A0 * A1 * A2 * !B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * B1 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * A2 * !B0 * B1 * !Y)	0.00002	0.00002	0.00003
	(A0 * A1 * A2 * !B0 * B1 * !Y)	0.00033	0.00033	0.00033
	(!A2 * !B1 * Y)	-0.00034	-0.00034	-0.00034
	(!A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A2 * !B1 * Y)	0.00004	0.00004	0.00004
	(!A2 * !B1 * Y)	0.00003	0.00003	0.00003
	(!A2 * !B0 * B1 * Y)	-0.00034	-0.00034	-0.00034
	(!A2 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A2 * !B0 * B1 * Y)	0.00004	0.00004	0.00004
	(!A2 * !B0 * B1 * Y)	0.00003	0.00003	0.00003
	(!A1 * A2 * !B1 * Y)	-0.00034	-0.00034	-0.00034
	(!A1 * A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B1 * Y)	0.00004	0.00004	0.00004
	(!A1 * A2 * !B1 * Y)	0.00003	0.00003	0.00003
	(!A1 * A2 * !B0 * B1 * Y)	-0.00034	-0.00034	-0.00034
	(!A1 * A2 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * B1 * Y)	0.00004	0.00004	0.00004
	(!A1 * A2 * !B0 * B1 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * A2 * !B1 * Y)	-0.00034	-0.00034	-0.00034
	(!A0 * A1 * A2 * !B1 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * A1 * A2 * !B1 * Y)	0.00004	0.00004	0.00004
	(!A0 * A1 * A2 * !B1 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * A2 * !B0 * B1 * Y)	-0.00034	-0.00034	-0.00034
	(!A0 * A1 * A2 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * A2 * !B0 * B1 * Y)	0.00004	0.00004	0.00004
	(!A0 * A1 * A2 * !B0 * B1 * Y)	0.00003	0.00003	0.00003

Passive power(pJ) for B2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X1P4H7H	**(A0 * A1 * A2 * B0 * B1 * !Y)**	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * B1 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * A2 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * B0 * B1 * !Y)	-0.00038	-0.00037	-0.00037
	(A0 * A1 * A2 * !B1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * A2 * !B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * A2 * !B1 * !Y)	-0.00034	-0.00033	-0.00031
	(A0 * A1 * A2 * !B0 * B1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * B1 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * A2 * !B0 * B1 * !Y)	-0.00003	-0.00002	-0.00002
	(A0 * A1 * A2 * !B0 * B1 * !Y)	-0.00033	-0.00031	-0.00028
	(!A2 * !B1 * Y)	0.00034	0.00034	0.00034
	(!A2 * !B1 * Y)	0.00001	0.00001	0.00002
	(!A2 * !B1 * Y)	-0.00004	-0.00004	-0.00004
	(!A2 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A2 * !B0 * B1 * Y)	0.00034	0.00034	0.00034
	(!A2 * !B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A2 * !B0 * B1 * Y)	-0.00004	-0.00004	-0.00003
	(!A2 * !B0 * B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * A2 * !B1 * Y)	0.00034	0.00034	0.00034
	(!A1 * A2 * !B1 * Y)	0.00001	0.00001	0.00002
	(!A1 * A2 * !B1 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * A2 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * A2 * !B0 * B1 * Y)	0.00034	0.00034	0.00034
	(!A1 * A2 * !B0 * B1 * Y)	0.00001	0.00001	0.00002
	(!A1 * A2 * !B0 * B1 * Y)	-0.00004	-0.00004	-0.00003
	(!A1 * A2 * !B0 * B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * A2 * !B1 * Y)	0.00034	0.00034	0.00034
	(!A0 * A1 * A2 * !B1 * Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * A2 * !B1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A1 * A2 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * A2 * !B0 * B1 * Y)	0.00034	0.00034	0.00034
	(!A0 * A1 * A2 * !B0 * B1 * Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * A2 * !B0 * B1 * Y)	-0.00004	-0.00004	-0.00003
	(!A0 * A1 * A2 * !B0 * B1 * Y)	-0.00003	-0.00003	-0.00003

AOI33X2H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

AOI

Y=! (A0 & A1 & A2)+ (B0 & B1 & B2)

Truth Table

INPUT						OUTPUT
A0	A1	A2	B0	B1	B2	Y
0	x	x	0	x	x	1
0	x	x	1	0	x	1
0	x	x	1	1	0	1
x	x	x	1	1	1	0
1	0	x	0	x	x	1
1	0	x	1	0	x	1
1	0	x	1	1	0	1
1	1	0	0	x	x	1
1	1	0	1	0	x	1
1	1	0	1	1	0	1
1	1	1	x	x	x	0

Footprint

Cell Name	Area
AOI33X2H7H	3.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	**A1**	**A2**	**B0**	**B1**	**B2**	**Y**
AOI33X2H7H	0.00099	0.00103	0.00114	0.00110	0.00109	0.00112	0.02610

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
AOI33X2H7H	0.00000	0.02615	0.05963

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI33X2H7H	A0->Y (FR)	0.07549	0.26019	0.76989
	A1->Y (FR)	0.07124	0.25456	0.76411
	A2->Y (FR)	0.06657	0.24864	0.75873
	B0->Y (FR)	0.06125	0.23943	0.74711
	B1->Y (FR)	0.05597	0.23256	0.74074
	B2->Y (FR)	0.05052	0.22578	0.73491

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI33X2H7H	A0->Y (RF)	0.06862	0.23781	0.70749
	A1->Y (RF)	0.06647	0.24027	0.73209
	A2->Y (RF)	0.06189	0.22998	0.71517
	B0->Y (RF)	0.04967	0.21454	0.68540
	B1->Y (RF)	0.04644	0.21489	0.70971
	B2->Y (RF)	0.04104	0.20340	0.69330

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI33X2H7H	A0	0.00278	0.00283	0.00285
	A0	-0.00040	-0.00040	-0.00036
	A0	0.00036	0.00036	0.00037
	A0	-0.00015	-0.00014	-0.00012
	A1	0.00261	0.00266	0.00268
	A1	-0.00040	-0.00040	-0.00038
	A1	0.00029	0.00030	0.00030
	A1	-0.00011	-0.00007	-0.00005
	A2	0.00242	0.00248	0.00251
	A2	-0.00041	-0.00040	-0.00039
	A2	0.00020	0.00022	0.00024
	A2	-0.00012	-0.00007	-0.00002
	B0	0.00195	0.00202	0.00206
	B0	-0.00016	-0.00016	0.00000
	B0	0.00036	0.00036	0.00036
	B0	-0.00021	-0.00018	-0.00015
	B1	0.00177	0.00183	0.00187
	B1	-0.00016	-0.00015	-0.00002
	B1	0.00029	0.00030	0.00030
	B1	-0.00017	-0.00013	-0.00010
	B2	0.00157	0.00163	0.00168
	B2	-0.00016	-0.00016	-0.00006
	B2	0.00022	0.00022	0.00023
	B2	-0.00018	-0.00012	-0.00008

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI33X2H7H	A0	-0.00015	-0.00012	-0.00010
	A0	0.00042	0.00042	0.00042
	A0	-0.00023	-0.00023	-0.00022
	A0	0.00282	0.00287	0.00289
	A1	-0.00016	-0.00012	-0.00010
	A1	0.00042	0.00042	0.00042
	A1	-0.00016	-0.00016	-0.00016
	A1	0.00252	0.00258	0.00260
	A2	-0.00018	-0.00014	-0.00010
	A2	0.00039	0.00040	0.00044
	A2	-0.00009	-0.00009	-0.00006
	A2	0.00226	0.00233	0.00238
	B0	-0.00029	-0.00006	0.00015
	B0	0.00000	0.00017	0.00039
	B0	-0.00022	-0.00022	-0.00022
	B0	0.00230	0.00235	0.00239
	B1	-0.00010	-0.00005	0.00008
	B1	0.00003	0.00016	0.00027
	B1	-0.00017	-0.00016	-0.00016
	B1	0.00201	0.00205	0.00208
	B2	-0.00010	-0.00005	-0.00001
	B2	0.00008	0.00016	0.00023
	B2	-0.00009	-0.00009	-0.00008
	B2	0.00170	0.00179	0.00184

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X2H7H	**(A1 * A2 * B0 * B1 * B2 * !Y)**	-0.00016	-0.00014	-0.00011
	(A1 * A2 * B0 * B1 * B2 * !Y)	-0.00004	-0.00004	-0.00004
	(A1 * A2 * B0 * B1 * B2 * !Y)	0.00000	0.00001	0.00001
	(A1 * A2 * B0 * B1 * B2 * !Y)	0.00033	0.00033	0.00034
	(A1 * !A2 * B0 * B1 * B2 * !Y)	-0.00022	-0.00022	-0.00022
	(A1 * !A2 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * B1 * B2 * !Y)	0.00002	0.00002	0.00003
	(A1 * !A2 * B0 * B1 * B2 * !Y)	0.00028	0.00028	0.00028
	(A1 * !A2 * !B2 * Y)	-0.00022	-0.00022	-0.00022
	(A1 * !A2 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !B2 * Y)	0.00002	0.00002	0.00002
	(A1 * !A2 * !B2 * Y)	0.00028	0.00028	0.00028
	(A1 * !A2 * !B1 * B2 * Y)	-0.00022	-0.00022	-0.00022
	(A1 * !A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !B1 * B2 * Y)	0.00002	0.00002	0.00002
	(A1 * !A2 * !B1 * B2 * Y)	0.00028	0.00028	0.00028
	(A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00022	-0.00022	-0.00022
	(A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !B0 * B1 * B2 * Y)	0.00002	0.00002	0.00002
	(A1 * !A2 * !B0 * B1 * B2 * Y)	0.00028	0.00028	0.00028
	(!A1 * B0 * B1 * B2 * !Y)	-0.00022	-0.00022	-0.00022
	(!A1 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * B2 * !Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * B1 * B2 * !Y)	0.00028	0.00028	0.00029
	(!A1 * A2 * !B2 * Y)	-0.00022	-0.00022	-0.00022
	(!A1 * A2 * !B2 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * A2 * !B2 * Y)	0.00002	0.00002	0.00002
	(!A1 * A2 * !B2 * Y)	0.00029	0.00029	0.00029
	(!A1 * A2 * !B1 * B2 * Y)	-0.00022	-0.00022	-0.00022
	(!A1 * A2 * !B1 * B2 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * A2 * !B1 * B2 * Y)	0.00002	0.00002	0.00002
	(!A1 * A2 * !B1 * B2 * Y)	0.00029	0.00029	0.00029
	(!A1 * A2 * !B0 * B1 * B2 * Y)	-0.00022	-0.00022	-0.00022
	(!A1 * A2 * !B0 * B1 * B2 * Y)	-0.00002	-0.00001	-0.00000
	(!A1 * A2 * !B0 * B1 * B2 * Y)	0.00002	0.00002	0.00002
	(!A1 * A2 * !B0 * B1 * B2 * Y)	0.00029	0.00029	0.00029
	(!A1 * !A2 * !B2 * Y)	-0.00022	-0.00020	-0.00005
	(!A1 * !A2 * !B2 * Y)	-0.00002	-0.00001	-0.00000
	(!A1 * !A2 * !B2 * Y)	0.00002	0.00002	0.00002
	(!A1 * !A2 * !B2 * Y)	0.00028	0.00028	0.00029
	(!A1 * !A2 * !B1 * B2 * Y)	-0.00022	-0.00022	-0.00022
	(!A1 * !A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B1 * B2 * Y)	0.00002	0.00002	0.00002
	(!A1 * !A2 * !B1 * B2 * Y)	0.00028	0.00028	0.00029
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00022	-0.00022	-0.00022
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	0.00002	0.00002	0.00002
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	0.00028	0.00028	0.00029

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X2H7H	**(A1 * A2 * B0 * B1 * B2 * !Y)**	0.00016	0.00016	0.00016
	(A1 * A2 * B0 * B1 * B2 * !Y)	0.00004	0.00004	0.00004
	(A1 * A2 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * A2 * B0 * B1 * B2 * !Y)	-0.00033	-0.00033	-0.00033
	(A1 * !A2 * B0 * B1 * B2 * !Y)	0.00022	0.00022	0.00022
	(A1 * !A2 * B0 * B1 * B2 * !Y)	0.00001	0.00002	0.00002
	(A1 * !A2 * B0 * B1 * B2 * !Y)	-0.00003	-0.00002	-0.00002
	(A1 * !A2 * B0 * B1 * B2 * !Y)	-0.00028	-0.00026	-0.00024
	(A1 * !A2 * !B2 * Y)	0.00022	0.00022	0.00022
	(A1 * !A2 * !B2 * Y)	0.00001	0.00001	0.00002
	(A1 * !A2 * !B2 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * !B2 * Y)	-0.00028	-0.00026	-0.00024
	(A1 * !A2 * !B1 * B2 * Y)	0.00022	0.00022	0.00022
	(A1 * !A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00002
	(A1 * !A2 * !B1 * B2 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * !B1 * B2 * Y)	-0.00028	-0.00026	-0.00024
	(A1 * !A2 * !B0 * B1 * B2 * Y)	0.00022	0.00022	0.00022
	(A1 * !A2 * !B0 * B1 * B2 * Y)	0.00001	0.00001	0.00002
	(A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00028	-0.00026	-0.00024
	(!A1 * B0 * B1 * B2 * !Y)	0.00022	0.00022	0.00022
	(!A1 * B0 * B1 * B2 * !Y)	0.00001	0.00002	0.00002
	(!A1 * B0 * B1 * B2 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * B1 * B2 * !Y)	-0.00029	-0.00028	-0.00026
	(!A1 * A2 * !B2 * Y)	0.00022	0.00022	0.00022
	(!A1 * A2 * !B2 * Y)	0.00001	0.00002	0.00002
	(!A1 * A2 * !B2 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * !B2 * Y)	-0.00029	-0.00027	-0.00025
	(!A1 * A2 * !B1 * B2 * Y)	0.00022	0.00022	0.00022
	(!A1 * A2 * !B1 * B2 * Y)	0.00001	0.00002	0.00002
	(!A1 * A2 * !B1 * B2 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * !B1 * B2 * Y)	-0.00029	-0.00027	-0.00025
	(!A1 * A2 * !B0 * B1 * B2 * Y)	0.00022	0.00022	0.00022
	(!A1 * A2 * !B0 * B1 * B2 * Y)	0.00000	0.00001	0.00002
	(!A1 * A2 * !B0 * B1 * B2 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * !B0 * B1 * B2 * Y)	-0.00029	-0.00027	-0.00026
	(!A1 * !A2 * !B2 * Y)	0.00022	0.00022	0.00022
	(!A1 * !A2 * !B2 * Y)	0.00000	0.00001	0.00002
	(!A1 * !A2 * !B2 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !A2 * !B2 * Y)	-0.00029	-0.00027	-0.00026
	(!A1 * !A2 * !B1 * B2 * Y)	0.00022	0.00022	0.00022
	(!A1 * !A2 * !B1 * B2 * Y)	0.00001	0.00002	0.00002
	(!A1 * !A2 * !B1 * B2 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !A2 * !B1 * B2 * Y)	-0.00029	-0.00027	-0.00025
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	0.00022	0.00022	0.00022
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	0.00001	0.00002	0.00002
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00029	-0.00027	-0.00025

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X2H7H	**(A0 * A2 * B0 * B1 * B2 * !Y)**	-0.00017	-0.00014	-0.00011
	(A0 * A2 * B0 * B1 * B2 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A2 * B0 * B1 * B2 * !Y)	0.00000	0.00001	0.00002
	(A0 * A2 * B0 * B1 * B2 * !Y)	0.00028	0.00029	0.00029
	(A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00023	-0.00023	-0.00023
	(A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * !A2 * B0 * B1 * B2 * !Y)	0.00002	0.00002	0.00003
	(A0 * !A2 * B0 * B1 * B2 * !Y)	0.00024	0.00024	0.00024
	(A0 * !A2 * !B2 * Y)	-0.00023	-0.00023	-0.00023
	(A0 * !A2 * !B2 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * !A2 * !B2 * Y)	0.00002	0.00002	0.00002
	(A0 * !A2 * !B2 * Y)	0.00024	0.00024	0.00024
	(A0 * !A2 * !B1 * B2 * Y)	-0.00023	-0.00023	-0.00023
	(A0 * !A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A2 * !B1 * B2 * Y)	0.00002	0.00002	0.00002
	(A0 * !A2 * !B1 * B2 * Y)	0.00024	0.00024	0.00024
	(A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00023	-0.00023	-0.00023
	(A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B0 * B1 * B2 * Y)	0.00002	0.00002	0.00002
	(A0 * !A2 * !B0 * B1 * B2 * Y)	0.00024	0.00024	0.00024
	(!A0 * A2 * B0 * B1 * B2 * !Y)	-0.00023	-0.00023	-0.00023
	(!A0 * A2 * B0 * B1 * B2 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * A2 * B0 * B1 * B2 * !Y)	0.00002	0.00002	0.00003
	(!A0 * A2 * B0 * B1 * B2 * !Y)	0.00023	0.00023	0.00024
	(!A0 * A2 * !B2 * Y)	-0.00023	-0.00023	-0.00023
	(!A0 * A2 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * !B2 * Y)	0.00007	0.00007	0.00007
	(!A0 * A2 * !B2 * Y)	0.00006	0.00006	0.00006
	(!A0 * A2 * !B1 * B2 * Y)	-0.00023	-0.00023	-0.00023
	(!A0 * A2 * !B1 * B2 * Y)	-0.00002	-0.00001	-0.00000
	(!A0 * A2 * !B1 * B2 * Y)	0.00007	0.00007	0.00007
	(!A0 * A2 * !B1 * B2 * Y)	0.00006	0.00006	0.00006
	(!A0 * A2 * !B0 * B1 * B2 * Y)	-0.00023	-0.00023	-0.00023
	(!A0 * A2 * !B0 * B1 * B2 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * A2 * !B0 * B1 * B2 * Y)	0.00007	0.00007	0.00007
	(!A0 * A2 * !B0 * B1 * B2 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00023	-0.00023	-0.00023
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	0.00008	0.00008	0.00008
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * !B2 * Y)	-0.00023	-0.00023	-0.00023
	(!A0 * !A2 * !B2 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !A2 * !B2 * Y)	0.00008	0.00008	0.00008
	(!A0 * !A2 * !B2 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * !B1 * B2 * Y)	-0.00023	-0.00023	-0.00023
	(!A0 * !A2 * !B1 * B2 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A2 * !B1 * B2 * Y)	0.00008	0.00008	0.00008
	(!A0 * !A2 * !B1 * B2 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00023	-0.00023	-0.00023
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	0.00008	0.00008	0.00008
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X2H7H	**(A0 * A2 * B0 * B1 * B2 * !Y)**	0.00016	0.00016	0.00017
	(A0 * A2 * B0 * B1 * B2 * !Y)	0.00004	0.00004	0.00004
	(A0 * A2 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A2 * B0 * B1 * B2 * !Y)	-0.00029	-0.00028	-0.00028
	(A0 * !A2 * B0 * B1 * B2 * !Y)	0.00023	0.00023	0.00023
	(A0 * !A2 * B0 * B1 * B2 * !Y)	0.00001	0.00002	0.00002
	(A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00003	-0.00002	-0.00002
	(A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00024	-0.00023	-0.00021
	(A0 * !A2 * !B2 * Y)	0.00023	0.00023	0.00025
	(A0 * !A2 * !B2 * Y)	0.00001	0.00002	0.00002
	(A0 * !A2 * !B2 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A2 * !B2 * Y)	-0.00024	-0.00022	-0.00020
	(A0 * !A2 * !B1 * B2 * Y)	0.00023	0.00024	0.00025
	(A0 * !A2 * !B1 * B2 * Y)	0.00001	0.00002	0.00002
	(A0 * !A2 * !B1 * B2 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A2 * !B1 * B2 * Y)	-0.00024	-0.00022	-0.00020
	(A0 * !A2 * !B0 * B1 * B2 * Y)	0.00023	0.00023	0.00025
	(A0 * !A2 * !B0 * B1 * B2 * Y)	0.00001	0.00002	0.00002
	(A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00024	-0.00022	-0.00020
	(!A0 * A2 * B0 * B1 * B2 * !Y)	0.00023	0.00023	0.00023
	(!A0 * A2 * B0 * B1 * B2 * !Y)	0.00001	0.00002	0.00002
	(!A0 * A2 * B0 * B1 * B2 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * A2 * B0 * B1 * B2 * !Y)	-0.00024	-0.00022	-0.00021
	(!A0 * A2 * !B2 * Y)	0.00023	0.00023	0.00023
	(!A0 * A2 * !B2 * Y)	0.00001	0.00001	0.00002
	(!A0 * A2 * !B2 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * A2 * !B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * A2 * !B1 * B2 * Y)	0.00023	0.00023	0.00023
	(!A0 * A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00002
	(!A0 * A2 * !B1 * B2 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * A2 * !B1 * B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * A2 * !B0 * B1 * B2 * Y)	0.00023	0.00023	0.00023
	(!A0 * A2 * !B0 * B1 * B2 * Y)	0.00001	0.00001	0.00002
	(!A0 * A2 * !B0 * B1 * B2 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * A2 * !B0 * B1 * B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	0.00023	0.00023	0.00023
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * !B2 * Y)	0.00023	0.00023	0.00024
	(!A0 * !A2 * !B2 * Y)	0.00001	0.00002	0.00002
	(!A0 * !A2 * !B2 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A2 * !B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * !B1 * B2 * Y)	0.00023	0.00023	0.00024
	(!A0 * !A2 * !B1 * B2 * Y)	0.00001	0.00002	0.00002
	(!A0 * !A2 * !B1 * B2 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A2 * !B1 * B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	0.00023	0.00023	0.00024
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	0.00001	0.00002	0.00002
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X2H7H	**(A0 * A1 * B0 * B1 * B2 * !Y)**	-0.00017	-0.00014	-0.00011
	(A0 * A1 * B0 * B1 * B2 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * B1 * B2 * !Y)	0.00032	0.00033	0.00033
	(!A1 * B0 * B1 * B2 * !Y)	-0.00023	-0.00023	-0.00023
	(!A1 * B0 * B1 * B2 * !Y)	-0.00002	-0.00001	-0.00001
	(!A1 * B0 * B1 * B2 * !Y)	0.00002	0.00002	0.00003
	(!A1 * B0 * B1 * B2 * !Y)	0.00027	0.00028	0.00028
	(!A1 * !B2 * Y)	-0.00035	-0.00035	-0.00034
	(!A1 * !B2 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B2 * Y)	0.00004	0.00005	0.00005
	(!A1 * !B2 * Y)	0.00006	0.00006	0.00006
	(!A1 * !B1 * B2 * Y)	-0.00035	-0.00035	-0.00034
	(!A1 * !B1 * B2 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B1 * B2 * Y)	0.00004	0.00005	0.00005
	(!A1 * !B1 * B2 * Y)	0.00006	0.00006	0.00006
	(!A1 * !B0 * B1 * B2 * Y)	-0.00035	-0.00035	-0.00034
	(!A1 * !B0 * B1 * B2 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * B1 * B2 * Y)	0.00004	0.00005	0.00005
	(!A1 * !B0 * B1 * B2 * Y)	0.00006	0.00006	0.00006
	(!A0 * A1 * B0 * B1 * B2 * !Y)	-0.00023	-0.00023	-0.00023
	(!A0 * A1 * B0 * B1 * B2 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * A1 * B0 * B1 * B2 * !Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * B0 * B1 * B2 * !Y)	0.00026	0.00027	0.00027
	(!A0 * A1 * !B2 * Y)	-0.00035	-0.00035	-0.00034
	(!A0 * A1 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B2 * Y)	0.00004	0.00004	0.00004
	(!A0 * A1 * !B2 * Y)	0.00005	0.00006	0.00006
	(!A0 * A1 * !B1 * B2 * Y)	-0.00035	-0.00035	-0.00035
	(!A0 * A1 * !B1 * B2 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * !B1 * B2 * Y)	0.00004	0.00004	0.00005
	(!A0 * A1 * !B1 * B2 * Y)	0.00006	0.00006	0.00006
	(!A0 * A1 * !B0 * B1 * B2 * Y)	-0.00035	-0.00035	-0.00035
	(!A0 * A1 * !B0 * B1 * B2 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * !B0 * B1 * B2 * Y)	0.00004	0.00004	0.00005
	(!A0 * A1 * !B0 * B1 * B2 * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X2H7H	**(A0 * A1 * B0 * B1 * B2 * !Y)**	0.00016	0.00016	0.00017
	(A0 * A1 * B0 * B1 * B2 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B0 * B1 * B2 * !Y)	-0.00033	-0.00032	-0.00032
	(!A1 * B0 * B1 * B2 * !Y)	0.00023	0.00023	0.00023
	(!A1 * B0 * B1 * B2 * !Y)	0.00001	0.00002	0.00002
	(!A1 * B0 * B1 * B2 * !Y)	-0.00003	-0.00002	-0.00002
	(!A1 * B0 * B1 * B2 * !Y)	-0.00028	-0.00026	-0.00025
	(!A1 * !B2 * Y)	0.00035	0.00035	0.00035
	(!A1 * !B2 * Y)	0.00001	0.00002	0.00002
	(!A1 * !B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * !B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A1 * !B1 * B2 * Y)	0.00035	0.00035	0.00035
	(!A1 * !B1 * B2 * Y)	0.00001	0.00002	0.00002
	(!A1 * !B1 * B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * !B1 * B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A1 * !B0 * B1 * B2 * Y)	0.00035	0.00035	0.00035
	(!A1 * !B0 * B1 * B2 * Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * B1 * B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * !B0 * B1 * B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * A1 * B0 * B1 * B2 * !Y)	0.00023	0.00023	0.00023
	(!A0 * A1 * B0 * B1 * B2 * !Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * B0 * B1 * B2 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * A1 * B0 * B1 * B2 * !Y)	-0.00027	-0.00024	-0.00022
	(!A0 * A1 * !B2 * Y)	0.00035	0.00035	0.00035
	(!A0 * A1 * !B2 * Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * !B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A1 * !B2 * Y)	-0.00006	-0.00006	-0.00005
	(!A0 * A1 * !B1 * B2 * Y)	0.00035	0.00035	0.00035
	(!A0 * A1 * !B1 * B2 * Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * !B1 * B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A1 * !B1 * B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * A1 * !B0 * B1 * B2 * Y)	0.00035	0.00035	0.00035
	(!A0 * A1 * !B0 * B1 * B2 * Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * !B0 * B1 * B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A1 * !B0 * B1 * B2 * Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X2H7H	**(A0 * A1 * A2 * B1 * B2 * !Y)**	-0.00000	-0.00000	0.00000
	(A0 * A1 * A2 * B1 * B2 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * A2 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * B1 * B2 * !Y)	0.00042	0.00042	0.00042
	(A0 * A1 * A2 * B1 * !B2 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * !B2 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * A2 * B1 * !B2 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * A2 * B1 * !B2 * !Y)	0.00037	0.00038	0.00038
	(A0 * A1 * A2 * !B1 * B2 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * A2 * !B1 * B2 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * A2 * !B1 * B2 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * A2 * !B1 * B2 * !Y)	0.00038	0.00038	0.00039
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	0.00038	0.00038	0.00038
	(!A2 * B1 * !B2 * Y)	-0.00026	-0.00026	-0.00026
	(!A2 * B1 * !B2 * Y)	-0.00002	-0.00002	-0.00001
	(!A2 * B1 * !B2 * Y)	0.00002	0.00002	0.00003
	(!A2 * B1 * !B2 * Y)	0.00024	0.00024	0.00024
	(!A2 * !B1 * B2 * Y)	-0.00026	-0.00026	-0.00026
	(!A2 * !B1 * B2 * Y)	-0.00002	-0.00002	-0.00001
	(!A2 * !B1 * B2 * Y)	0.00002	0.00002	0.00002
	(!A2 * !B1 * B2 * Y)	0.00025	0.00025	0.00025
	(!A2 * !B1 * !B2 * Y)	-0.00026	-0.00026	-0.00026
	(!A2 * !B1 * !B2 * Y)	-0.00002	-0.00002	-0.00001
	(!A2 * !B1 * !B2 * Y)	0.00002	0.00002	0.00003
	(!A2 * !B1 * !B2 * Y)	0.00025	0.00025	0.00025
	(!A1 * A2 * B1 * !B2 * Y)	-0.00026	-0.00026	-0.00026
	(!A1 * A2 * B1 * !B2 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * A2 * B1 * !B2 * Y)	0.00002	0.00002	0.00003
	(!A1 * A2 * B1 * !B2 * Y)	0.00024	0.00024	0.00024
	(!A1 * A2 * !B1 * B2 * Y)	-0.00026	-0.00026	-0.00026
	(!A1 * A2 * !B1 * B2 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * A2 * !B1 * B2 * Y)	0.00002	0.00002	0.00002
	(!A1 * A2 * !B1 * B2 * Y)	0.00025	0.00025	0.00025
	(!A1 * A2 * !B1 * !B2 * Y)	-0.00026	-0.00026	-0.00026
	(!A1 * A2 * !B1 * !B2 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * A2 * !B1 * !B2 * Y)	0.00002	0.00002	0.00003
	(!A1 * A2 * !B1 * !B2 * Y)	0.00025	0.00025	0.00025
	(!A0 * A1 * A2 * B1 * !B2 * Y)	-0.00026	-0.00026	-0.00026
	(!A0 * A1 * A2 * B1 * !B2 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * A2 * B1 * !B2 * Y)	0.00002	0.00002	0.00003
	(!A0 * A1 * A2 * B1 * !B2 * Y)	0.00024	0.00024	0.00024
	(!A0 * A1 * A2 * !B1 * B2 * Y)	-0.00026	-0.00026	-0.00026
	(!A0 * A1 * A2 * !B1 * B2 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * A2 * !B1 * B2 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * A2 * !B1 * B2 * Y)	0.00025	0.00025	0.00025
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	-0.00026	-0.00026	-0.00026
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	0.00002	0.00002	0.00003
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	0.00025	0.00025	0.00025

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X2H7H	(A0 * A1 * A2 * B1 * B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * B2 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * A2 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * B1 * B2 * !Y)	-0.00042	-0.00042	-0.00041
	(A0 * A1 * A2 * B1 * !B2 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * A2 * B1 * !B2 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * A2 * B1 * !B2 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * A2 * B1 * !B2 * !Y)	-0.00038	-0.00036	-0.00034
	(A0 * A1 * A2 * !B1 * B2 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * B2 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * A2 * !B1 * B2 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * A2 * !B1 * B2 * !Y)	-0.00038	-0.00037	-0.00036
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	-0.00038	-0.00037	-0.00035
	(!A2 * B1 * !B2 * Y)	0.00026	0.00026	0.00026
	(!A2 * B1 * !B2 * Y)	0.00001	0.00002	0.00002
	(!A2 * B1 * !B2 * Y)	-0.00003	-0.00002	-0.00002
	(!A2 * B1 * !B2 * Y)	-0.00024	-0.00023	-0.00021
	(!A2 * !B1 * B2 * Y)	0.00026	0.00026	0.00026
	(!A2 * !B1 * B2 * Y)	0.00001	0.00002	0.00002
	(!A2 * !B1 * B2 * Y)	-0.00002	-0.00002	-0.00002
	(!A2 * !B1 * B2 * Y)	-0.00025	-0.00024	-0.00022
	(!A2 * !B1 * !B2 * Y)	0.00026	0.00026	0.00026
	(!A2 * !B1 * !B2 * Y)	0.00001	0.00002	0.00002
	(!A2 * !B1 * !B2 * Y)	-0.00003	-0.00002	-0.00002
	(!A2 * !B1 * !B2 * Y)	-0.00025	-0.00024	-0.00022
	(!A1 * A2 * B1 * !B2 * Y)	0.00026	0.00026	0.00026
	(!A1 * A2 * B1 * !B2 * Y)	0.00001	0.00002	0.00002
	(!A1 * A2 * B1 * !B2 * Y)	-0.00003	-0.00002	-0.00002
	(!A1 * A2 * B1 * !B2 * Y)	-0.00024	-0.00023	-0.00020
	(!A1 * A2 * !B1 * B2 * Y)	0.00026	0.00026	0.00026
	(!A1 * A2 * !B1 * B2 * Y)	0.00001	0.00002	0.00002
	(!A1 * A2 * !B1 * B2 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * !B1 * B2 * Y)	-0.00025	-0.00024	-0.00022
	(!A1 * A2 * !B1 * !B2 * Y)	0.00026	0.00026	0.00026
	(!A1 * A2 * !B1 * !B2 * Y)	0.00001	0.00002	0.00002
	(!A1 * A2 * !B1 * !B2 * Y)	-0.00003	-0.00002	-0.00002
	(!A1 * A2 * !B1 * !B2 * Y)	-0.00025	-0.00024	-0.00022
	(!A0 * A1 * A2 * B1 * !B2 * Y)	0.00026	0.00026	0.00026
	(!A0 * A1 * A2 * B1 * !B2 * Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * A2 * B1 * !B2 * Y)	-0.00003	-0.00002	-0.00002
	(!A0 * A1 * A2 * B1 * !B2 * Y)	-0.00024	-0.00023	-0.00020
	(!A0 * A1 * A2 * !B1 * B2 * Y)	0.00026	0.00026	0.00026
	(!A0 * A1 * A2 * !B1 * B2 * Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * A2 * !B1 * B2 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * A2 * !B1 * B2 * Y)	-0.00025	-0.00024	-0.00022
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	0.00026	0.00026	0.00026
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	-0.00003	-0.00002	-0.00002
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	-0.00025	-0.00024	-0.00022

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X2H7H	**(A0 * A1 * A2 * B0 * B2 * !Y)**	-0.00000	-0.00000	0.00000
	(A0 * A1 * A2 * B0 * B2 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * A2 * B0 * B2 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * B0 * B2 * !Y)	0.00037	0.00037	0.00037
	(A0 * A1 * A2 * B0 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * !B2 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * A2 * B0 * !B2 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * A2 * B0 * !B2 * !Y)	0.00033	0.00033	0.00034
	(A0 * A1 * A2 * !B0 * B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * B2 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * A2 * !B0 * B2 * !Y)	0.00002	0.00003	0.00003
	(A0 * A1 * A2 * !B0 * B2 * !Y)	0.00033	0.00033	0.00033
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	0.00008	0.00008	0.00008
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	0.00016	0.00016	0.00016
	(!A2 * B0 * !B2 * Y)	-0.00026	-0.00026	-0.00025
	(!A2 * B0 * !B2 * Y)	-0.00002	-0.00001	-0.00001
	(!A2 * B0 * !B2 * Y)	0.00002	0.00002	0.00002
	(!A2 * B0 * !B2 * Y)	0.00021	0.00022	0.00022
	(!A2 * !B0 * B2 * Y)	-0.00026	-0.00026	-0.00026
	(!A2 * !B0 * B2 * Y)	-0.00002	-0.00002	-0.00001
	(!A2 * !B0 * B2 * Y)	0.00007	0.00007	0.00007
	(!A2 * !B0 * B2 * Y)	0.00003	0.00003	0.00004
	(!A2 * !B0 * !B2 * Y)	-0.00026	-0.00026	-0.00026
	(!A2 * !B0 * !B2 * Y)	-0.00002	-0.00002	-0.00001
	(!A2 * !B0 * !B2 * Y)	0.00008	0.00008	0.00008
	(!A2 * !B0 * !B2 * Y)	0.00003	0.00003	0.00004
	(!A1 * A2 * B0 * !B2 * Y)	-0.00026	-0.00026	-0.00025
	(!A1 * A2 * B0 * !B2 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * A2 * B0 * !B2 * Y)	0.00002	0.00002	0.00002
	(!A1 * A2 * B0 * !B2 * Y)	0.00021	0.00022	0.00022
	(!A1 * A2 * !B0 * B2 * Y)	-0.00026	-0.00026	-0.00026
	(!A1 * A2 * !B0 * B2 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * A2 * !B0 * B2 * Y)	0.00007	0.00007	0.00007
	(!A1 * A2 * !B0 * B2 * Y)	0.00003	0.00003	0.00004
	(!A1 * A2 * !B0 * !B2 * Y)	-0.00026	-0.00026	-0.00026
	(!A1 * A2 * !B0 * !B2 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * A2 * !B0 * !B2 * Y)	0.00008	0.00008	0.00008
	(!A1 * A2 * !B0 * !B2 * Y)	0.00003	0.00003	0.00004
	(!A0 * A1 * A2 * B0 * !B2 * Y)	-0.00026	-0.00026	-0.00025
	(!A0 * A1 * A2 * B0 * !B2 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * A2 * B0 * !B2 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * A2 * B0 * !B2 * Y)	0.00021	0.00022	0.00022
	(!A0 * A1 * A2 * !B0 * B2 * Y)	-0.00026	-0.00026	-0.00026
	(!A0 * A1 * A2 * !B0 * B2 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * A2 * !B0 * B2 * Y)	0.00007	0.00007	0.00007
	(!A0 * A1 * A2 * !B0 * B2 * Y)	0.00003	0.00003	0.00004
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	-0.00026	-0.00026	-0.00026
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	0.00008	0.00008	0.00008
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	0.00003	0.00003	0.00004

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X2H7H	**(A0 * A1 * A2 * B0 * B2 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * B2 * !Y)	0.00005	0.00006	0.00006
	(A0 * A1 * A2 * B0 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * B0 * B2 * !Y)	-0.00037	-0.00037	-0.00037
	(A0 * A1 * A2 * B0 * !B2 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * !B2 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * A2 * B0 * !B2 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * A2 * B0 * !B2 * !Y)	-0.00034	-0.00032	-0.00031
	(A0 * A1 * A2 * !B0 * B2 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * A2 * !B0 * B2 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * A2 * !B0 * B2 * !Y)	-0.00003	-0.00003	-0.00002
	(A0 * A1 * A2 * !B0 * B2 * !Y)	-0.00033	-0.00032	-0.00030
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	-0.00008	-0.00008	-0.00008
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	-0.00016	-0.00016	-0.00016
	(!A2 * B0 * !B2 * Y)	0.00026	0.00026	0.00027
	(!A2 * B0 * !B2 * Y)	0.00001	0.00002	0.00002
	(!A2 * B0 * !B2 * Y)	-0.00002	-0.00002	-0.00002
	(!A2 * B0 * !B2 * Y)	-0.00022	-0.00020	-0.00018
	(!A2 * !B0 * B2 * Y)	0.00026	0.00026	0.00026
	(!A2 * !B0 * B2 * Y)	0.00001	0.00002	0.00002
	(!A2 * !B0 * B2 * Y)	-0.00007	-0.00007	-0.00007
	(!A2 * !B0 * B2 * Y)	-0.00004	-0.00003	-0.00003
	(!A2 * !B0 * !B2 * Y)	0.00026	0.00026	0.00026
	(!A2 * !B0 * !B2 * Y)	0.00001	0.00002	0.00002
	(!A2 * !B0 * !B2 * Y)	-0.00008	-0.00008	-0.00008
	(!A2 * !B0 * !B2 * Y)	-0.00004	-0.00003	-0.00003
	(!A1 * A2 * B0 * !B2 * Y)	0.00026	0.00026	0.00027
	(!A1 * A2 * B0 * !B2 * Y)	0.00001	0.00002	0.00002
	(!A1 * A2 * B0 * !B2 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * B0 * !B2 * Y)	-0.00022	-0.00020	-0.00018
	(!A1 * A2 * !B0 * B2 * Y)	0.00026	0.00026	0.00026
	(!A1 * A2 * !B0 * B2 * Y)	0.00001	0.00002	0.00002
	(!A1 * A2 * !B0 * B2 * Y)	-0.00007	-0.00007	-0.00007
	(!A1 * A2 * !B0 * B2 * Y)	-0.00004	-0.00003	-0.00003
	(!A1 * A2 * !B0 * !B2 * Y)	0.00026	0.00026	0.00026
	(!A1 * A2 * !B0 * !B2 * Y)	0.00002	0.00002	0.00002
	(!A1 * A2 * !B0 * !B2 * Y)	-0.00008	-0.00008	-0.00008
	(!A1 * A2 * !B0 * !B2 * Y)	-0.00004	-0.00003	-0.00003
	(!A0 * A1 * A2 * B0 * !B2 * Y)	0.00026	0.00026	0.00027
	(!A0 * A1 * A2 * B0 * !B2 * Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * A2 * B0 * !B2 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * A2 * B0 * !B2 * Y)	-0.00022	-0.00020	-0.00018
	(!A0 * A1 * A2 * !B0 * B2 * Y)	0.00026	0.00026	0.00026
	(!A0 * A1 * A2 * !B0 * B2 * Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * A2 * !B0 * B2 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * A1 * A2 * !B0 * B2 * Y)	-0.00004	-0.00003	-0.00003
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	0.00026	0.00026	0.00026
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	-0.00004	-0.00003	-0.00003

Passive power(pJ) for B2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X2H7H	**(A0 * A1 * A2 * B0 * B1 * !Y)**	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * B1 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * A2 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * B0 * B1 * !Y)	0.00039	0.00039	0.00040
	(A0 * A1 * A2 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !Y)	-0.00005	-0.00005	-0.00004
	(A0 * A1 * A2 * !B1 * !Y)	0.00002	0.00002	0.00003
	(A0 * A1 * A2 * !B1 * !Y)	0.00035	0.00035	0.00036
	(A0 * A1 * A2 * !B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * B1 * !Y)	-0.00005	-0.00005	-0.00004
	(A0 * A1 * A2 * !B0 * B1 * !Y)	0.00002	0.00003	0.00003
	(A0 * A1 * A2 * !B0 * B1 * !Y)	0.00034	0.00034	0.00034
	(!A2 * !B1 * Y)	-0.00035	-0.00034	-0.00034
	(!A2 * !B1 * Y)	-0.00002	-0.00001	-0.00001
	(!A2 * !B1 * Y)	0.00005	0.00005	0.00005
	(!A2 * !B1 * Y)	0.00003	0.00003	0.00003
	(!A2 * !B0 * B1 * Y)	-0.00035	-0.00034	-0.00034
	(!A2 * !B0 * B1 * Y)	-0.00002	-0.00001	-0.00001
	(!A2 * !B0 * B1 * Y)	0.00004	0.00004	0.00004
	(!A2 * !B0 * B1 * Y)	0.00003	0.00003	0.00003
	(!A1 * A2 * !B1 * Y)	-0.00035	-0.00034	-0.00034
	(!A1 * A2 * !B1 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * A2 * !B1 * Y)	0.00005	0.00005	0.00005
	(!A1 * A2 * !B1 * Y)	0.00003	0.00003	0.00003
	(!A1 * A2 * !B0 * B1 * Y)	-0.00035	-0.00034	-0.00034
	(!A1 * A2 * !B0 * B1 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * A2 * !B0 * B1 * Y)	0.00004	0.00004	0.00005
	(!A1 * A2 * !B0 * B1 * Y)	0.00003	0.00003	0.00004
	(!A0 * A1 * A2 * !B1 * Y)	-0.00035	-0.00034	-0.00034
	(!A0 * A1 * A2 * !B1 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * A2 * !B1 * Y)	0.00005	0.00005	0.00005
	(!A0 * A1 * A2 * !B1 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * A2 * !B0 * B1 * Y)	-0.00035	-0.00034	-0.00034
	(!A0 * A1 * A2 * !B0 * B1 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * A2 * !B0 * B1 * Y)	0.00004	0.00004	0.00005
	(!A0 * A1 * A2 * !B0 * B1 * Y)	0.00003	0.00003	0.00004

Passive power(pJ) for B2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X2H7H	**(A0 * A1 * A2 * B0 * B1 * !Y)**	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * B1 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * A2 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * B0 * B1 * !Y)	-0.00039	-0.00039	-0.00038
	(A0 * A1 * A2 * !B1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !Y)	0.00004	0.00005	0.00005
	(A0 * A1 * A2 * !B1 * !Y)	-0.00003	-0.00002	-0.00002
	(A0 * A1 * A2 * !B1 * !Y)	-0.00036	-0.00034	-0.00032
	(A0 * A1 * A2 * !B0 * B1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * A2 * !B0 * B1 * !Y)	0.00004	0.00005	0.00005
	(A0 * A1 * A2 * !B0 * B1 * !Y)	-0.00003	-0.00003	-0.00002
	(A0 * A1 * A2 * !B0 * B1 * !Y)	-0.00034	-0.00032	-0.00029
	(!A2 * !B1 * Y)	0.00034	0.00034	0.00035
	(!A2 * !B1 * Y)	0.00001	0.00002	0.00002
	(!A2 * !B1 * Y)	-0.00004	-0.00004	-0.00004
	(!A2 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A2 * !B0 * B1 * Y)	0.00034	0.00034	0.00035
	(!A2 * !B0 * B1 * Y)	0.00001	0.00002	0.00002
	(!A2 * !B0 * B1 * Y)	-0.00004	-0.00004	-0.00004
	(!A2 * !B0 * B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * A2 * !B1 * Y)	0.00034	0.00034	0.00035
	(!A1 * A2 * !B1 * Y)	0.00001	0.00002	0.00002
	(!A1 * A2 * !B1 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * A2 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * A2 * !B0 * B1 * Y)	0.00034	0.00034	0.00035
	(!A1 * A2 * !B0 * B1 * Y)	0.00001	0.00002	0.00002
	(!A1 * A2 * !B0 * B1 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * A2 * !B0 * B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * A2 * !B1 * Y)	0.00034	0.00034	0.00035
	(!A0 * A1 * A2 * !B1 * Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * A2 * !B1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A1 * A2 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * A2 * !B0 * B1 * Y)	0.00034	0.00034	0.00035
	(!A0 * A1 * A2 * !B0 * B1 * Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * A2 * !B0 * B1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A1 * A2 * !B0 * B1 * Y)	-0.00003	-0.00003	-0.00003

AOI33X3H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

AOI

Y=! (A0 & A1 & A2)+ (B0 & B1 & B2)

Truth Table

INPUT						OUTPUT
A0	A1	A2	B0	B1	B2	Y
0	x	x	0	x	x	1
0	x	x	1	0	x	1
0	x	x	1	1	0	1
x	x	x	1	1	1	0
1	0	x	0	x	x	1
1	0	x	1	0	x	1
1	0	x	1	1	0	1
1	1	0	0	x	x	1
1	1	0	1	0	x	1
1	1	0	1	1	0	1
1	1	1	x	x	x	0

Footprint

Cell Name	Area
AOI33X3H7H	5.32000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	**A1**	**A2**	**B0**	**B1**	**B2**	**Y**
AOI33X3H7H	0.00179	0.00177	0.00194	0.00192	0.00193	0.00203	0.04098

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
AOI33X3H7H	0.00000	0.03341	0.06368

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI33X3H7H	A0->Y (FR)	0.08429	0.26875	0.77425
	A1->Y (FR)	0.07845	0.26138	0.76570
	A2->Y (FR)	0.07132	0.25294	0.75871
	B0->Y (FR)	0.06685	0.24462	0.74618
	B1->Y (FR)	0.06131	0.23728	0.74005
	B2->Y (FR)	0.05379	0.22822	0.73265

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI33X3H7H	A0->Y (RF)	0.07490	0.24571	0.71480
	A1->Y (RF)	0.07208	0.24707	0.74091
	A2->Y (RF)	0.06489	0.23454	0.72289
	B0->Y (RF)	0.05261	0.21891	0.68846
	B1->Y (RF)	0.05014	0.21938	0.71503
	B2->Y (RF)	0.04214	0.20537	0.69805

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI33X3H7H	A0	0.00518	0.00526	0.00532
	A0	-0.00060	-0.00059	-0.00056
	A0	0.00054	0.00055	0.00055
	A0	-0.00004	0.00001	0.00009
	A1	0.00479	0.00490	0.00495
	A1	-0.00060	-0.00060	-0.00058
	A1	0.00044	0.00045	0.00045
	A1	0.00003	0.00010	0.00014
	A2	0.00441	0.00451	0.00458
	A2	-0.00060	-0.00059	-0.00053
	A2	0.00031	0.00034	0.00036
	A2	-0.00001	0.00009	0.00016
	B0	0.00361	0.00380	0.00387
	B0	-0.00024	-0.00024	-0.00020
	B0	0.00054	0.00055	0.00056
	B0	-0.00021	-0.00015	-0.00010
	B1	0.00330	0.00343	0.00351
	B1	-0.00024	-0.00024	-0.00021
	B1	0.00043	0.00045	0.00045
	B1	-0.00020	-0.00011	-0.00005
	B2	0.00297	0.00306	0.00314
	B2	-0.00024	-0.00024	-0.00019
	B2	0.00031	0.00034	0.00042
	B2	-0.00021	-0.00011	-0.00003

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI33X3H7H	A0	-0.00025	-0.00019	-0.00016
	A0	0.00058	0.00060	0.00067
	A0	-0.00039	-0.00034	-0.00026
	A0	0.00512	0.00518	0.00522
	A1	-0.00025	-0.00020	-0.00016
	A1	0.00062	0.00062	0.00065
	A1	-0.00029	-0.00024	-0.00021
	A1	0.00458	0.00464	0.00469
	A2	-0.00029	-0.00021	-0.00016
	A2	0.00063	0.00064	0.00064
	A2	-0.00014	-0.00013	-0.00005
	A2	0.00402	0.00414	0.00422
	B0	-0.00018	-0.00010	-0.00005
	B0	0.00022	0.00024	0.00025
	B0	-0.00037	-0.00034	-0.00027
	B0	0.00420	0.00427	0.00432
	B1	-0.00017	-0.00008	-0.00003
	B1	0.00023	0.00024	0.00025
	B1	-0.00027	-0.00024	-0.00022
	B1	0.00370	0.00377	0.00383
	B2	-0.00022	-0.00013	-0.00006
	B2	0.00021	0.00024	0.00025
	B2	-0.00014	-0.00013	-0.00012
	B2	0.00316	0.00324	0.00332

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X3H7H	**(A1 * A2 * B0 * B1 * B2 * !Y)**	-0.00026	-0.00022	-0.00017
	(A1 * A2 * B0 * B1 * B2 * !Y)	-0.00007	-0.00006	-0.00006
	(A1 * A2 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(A1 * A2 * B0 * B1 * B2 * !Y)	0.00061	0.00062	0.00064
	(A1 * !A2 * B0 * B1 * B2 * !Y)	-0.00037	-0.00037	-0.00036
	(A1 * !A2 * B0 * B1 * B2 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * B0 * B1 * B2 * !Y)	0.00004	0.00004	0.00004
	(A1 * !A2 * B0 * B1 * B2 * !Y)	0.00049	0.00049	0.00050
	(A1 * !A2 * !B2 * Y)	-0.00038	-0.00037	-0.00037
	(A1 * !A2 * !B2 * Y)	-0.00002	-0.00002	-0.00001
	(A1 * !A2 * !B2 * Y)	0.00004	0.00004	0.00004
	(A1 * !A2 * !B2 * Y)	0.00048	0.00049	0.00049
	(A1 * !A2 * !B1 * B2 * Y)	-0.00038	-0.00037	-0.00037
	(A1 * !A2 * !B1 * B2 * Y)	-0.00002	-0.00002	-0.00001
	(A1 * !A2 * !B1 * B2 * Y)	0.00004	0.00004	0.00004
	(A1 * !A2 * !B1 * B2 * Y)	0.00048	0.00049	0.00049
	(A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00038	-0.00037	-0.00037
	(A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00002	-0.00002	-0.00001
	(A1 * !A2 * !B0 * B1 * B2 * Y)	0.00004	0.00004	0.00004
	(A1 * !A2 * !B0 * B1 * B2 * Y)	0.00048	0.00049	0.00049
	(!A1 * B0 * B1 * B2 * !Y)	-0.00037	-0.00037	-0.00037
	(!A1 * B0 * B1 * B2 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * B1 * B2 * !Y)	0.00004	0.00004	0.00004
	(!A1 * B0 * B1 * B2 * !Y)	0.00051	0.00051	0.00052
	(!A1 * A2 * !B2 * Y)	-0.00037	-0.00037	-0.00037
	(!A1 * A2 * !B2 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * A2 * !B2 * Y)	0.00004	0.00004	0.00004
	(!A1 * A2 * !B2 * Y)	0.00050	0.00051	0.00051
	(!A1 * A2 * !B1 * B2 * Y)	-0.00037	-0.00037	-0.00037
	(!A1 * A2 * !B1 * B2 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * A2 * !B1 * B2 * Y)	0.00004	0.00004	0.00004
	(!A1 * A2 * !B1 * B2 * Y)	0.00050	0.00051	0.00051
	(!A1 * A2 * !B0 * B1 * B2 * Y)	-0.00038	-0.00037	-0.00037
	(!A1 * A2 * !B0 * B1 * B2 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * A2 * !B0 * B1 * B2 * Y)	0.00004	0.00004	0.00004
	(!A1 * A2 * !B0 * B1 * B2 * Y)	0.00050	0.00051	0.00051
	(!A1 * !A2 * !B2 * Y)	-0.00037	-0.00037	-0.00037
	(!A1 * !A2 * !B2 * Y)	-0.00003	-0.00002	-0.00002
	(!A1 * !A2 * !B2 * Y)	0.00004	0.00004	0.00004
	(!A1 * !A2 * !B2 * Y)	0.00050	0.00050	0.00051
	(!A1 * !A2 * !B1 * B2 * Y)	-0.00037	-0.00037	-0.00037
	(!A1 * !A2 * !B1 * B2 * Y)	-0.00003	-0.00002	-0.00002
	(!A1 * !A2 * !B1 * B2 * Y)	0.00004	0.00004	0.00004
	(!A1 * !A2 * !B1 * B2 * Y)	0.00049	0.00050	0.00051
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00037	-0.00037	-0.00037
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00003	-0.00002	-0.00002
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	0.00004	0.00004	0.00004
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	0.00050	0.00050	0.00051

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X3H7H	**(A1 * A2 * B0 * B1 * B2 * !Y)**	0.00026	0.00026	0.00026
	(A1 * A2 * B0 * B1 * B2 * !Y)	0.00006	0.00006	0.00007
	(A1 * A2 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B0 * B1 * B2 * !Y)	-0.00062	-0.00061	-0.00061
	(A1 * !A2 * B0 * B1 * B2 * !Y)	0.00036	0.00037	0.00037
	(A1 * !A2 * B0 * B1 * B2 * !Y)	0.00002	0.00002	0.00002
	(A1 * !A2 * B0 * B1 * B2 * !Y)	-0.00004	-0.00004	-0.00004
	(A1 * !A2 * B0 * B1 * B2 * !Y)	-0.00050	-0.00047	-0.00042
	(A1 * !A2 * !B2 * Y)	0.00038	0.00038	0.00038
	(A1 * !A2 * !B2 * Y)	0.00001	0.00002	0.00002
	(A1 * !A2 * !B2 * Y)	-0.00004	-0.00004	-0.00004
	(A1 * !A2 * !B2 * Y)	-0.00049	-0.00046	-0.00042
	(A1 * !A2 * !B1 * B2 * Y)	0.00038	0.00038	0.00038
	(A1 * !A2 * !B1 * B2 * Y)	0.00001	0.00002	0.00002
	(A1 * !A2 * !B1 * B2 * Y)	-0.00004	-0.00004	-0.00004
	(A1 * !A2 * !B1 * B2 * Y)	-0.00049	-0.00046	-0.00042
	(A1 * !A2 * !B0 * B1 * B2 * Y)	0.00038	0.00038	0.00038
	(A1 * !A2 * !B0 * B1 * B2 * Y)	0.00001	0.00002	0.00002
	(A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00004	-0.00004	-0.00004
	(A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00049	-0.00046	-0.00042
	(!A1 * B0 * B1 * B2 * !Y)	0.00037	0.00037	0.00037
	(!A1 * B0 * B1 * B2 * !Y)	0.00002	0.00003	0.00003
	(!A1 * B0 * B1 * B2 * !Y)	-0.00004	-0.00004	-0.00004
	(!A1 * B0 * B1 * B2 * !Y)	-0.00051	-0.00049	-0.00046
	(!A1 * A2 * !B2 * Y)	0.00037	0.00038	0.00038
	(!A1 * A2 * !B2 * Y)	0.00002	0.00002	0.00003
	(!A1 * A2 * !B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * A2 * !B2 * Y)	-0.00051	-0.00048	-0.00044
	(!A1 * A2 * !B1 * B2 * Y)	0.00037	0.00038	0.00038
	(!A1 * A2 * !B1 * B2 * Y)	0.00002	0.00002	0.00003
	(!A1 * A2 * !B1 * B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * A2 * !B1 * B2 * Y)	-0.00051	-0.00048	-0.00044
	(!A1 * A2 * !B0 * B1 * B2 * Y)	0.00037	0.00038	0.00038
	(!A1 * A2 * !B0 * B1 * B2 * Y)	0.00002	0.00002	0.00003
	(!A1 * A2 * !B0 * B1 * B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * A2 * !B0 * B1 * B2 * Y)	-0.00051	-0.00048	-0.00044
	(!A1 * !A2 * !B2 * Y)	0.00037	0.00038	0.00038
	(!A1 * !A2 * !B2 * Y)	0.00002	0.00003	0.00003
	(!A1 * !A2 * !B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * !A2 * !B2 * Y)	-0.00050	-0.00048	-0.00043
	(!A1 * !A2 * !B1 * B2 * Y)	0.00037	0.00038	0.00038
	(!A1 * !A2 * !B1 * B2 * Y)	0.00002	0.00003	0.00003
	(!A1 * !A2 * !B1 * B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * !A2 * !B1 * B2 * Y)	-0.00050	-0.00048	-0.00043
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	0.00037	0.00038	0.00038
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	0.00002	0.00003	0.00003
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00050	-0.00048	-0.00043

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X3H7H	(A0 * A2 * B0 * B1 * B2 * !Y)	-0.00026	-0.00022	-0.00017
	(A0 * A2 * B0 * B1 * B2 * !Y)	-0.00007	-0.00006	-0.00006
	(A0 * A2 * B0 * B1 * B2 * !Y)	0.00000	0.00001	0.00002
	(A0 * A2 * B0 * B1 * B2 * !Y)	0.00058	0.00059	0.00060
	(A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00038	-0.00038	-0.00038
	(A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00003	-0.00002	-0.00002
	(A0 * !A2 * B0 * B1 * B2 * !Y)	0.00003	0.00003	0.00004
	(A0 * !A2 * B0 * B1 * B2 * !Y)	0.00049	0.00049	0.00049
	(A0 * !A2 * !B2 * Y)	-0.00039	-0.00039	-0.00038
	(A0 * !A2 * !B2 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * !A2 * !B2 * Y)	0.00003	0.00003	0.00004
	(A0 * !A2 * !B2 * Y)	0.00049	0.00049	0.00049
	(A0 * !A2 * !B1 * B2 * Y)	-0.00039	-0.00039	-0.00038
	(A0 * !A2 * !B1 * B2 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * !A2 * !B1 * B2 * Y)	0.00003	0.00003	0.00004
	(A0 * !A2 * !B1 * B2 * Y)	0.00049	0.00049	0.00049
	(A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00039	-0.00039	-0.00038
	(A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00003	-0.00002	-0.00001
	(A0 * !A2 * !B0 * B1 * B2 * Y)	0.00003	0.00003	0.00004
	(A0 * !A2 * !B0 * B1 * B2 * Y)	0.00049	0.00049	0.00049
	(!A0 * A2 * B0 * B1 * B2 * !Y)	-0.00038	-0.00038	-0.00038
	(!A0 * A2 * B0 * B1 * B2 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * A2 * B0 * B1 * B2 * !Y)	0.00004	0.00004	0.00004
	(!A0 * A2 * B0 * B1 * B2 * !Y)	0.00048	0.00048	0.00048
	(!A0 * A2 * !B2 * Y)	-0.00041	-0.00040	-0.00040
	(!A0 * A2 * !B2 * Y)	-0.00003	-0.00002	-0.00002
	(!A0 * A2 * !B2 * Y)	0.00010	0.00010	0.00010
	(!A0 * A2 * !B2 * Y)	0.00014	0.00014	0.00014
	(!A0 * A2 * !B1 * B2 * Y)	-0.00041	-0.00040	-0.00040
	(!A0 * A2 * !B1 * B2 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A2 * !B1 * B2 * Y)	0.00010	0.00010	0.00010
	(!A0 * A2 * !B1 * B2 * Y)	0.00014	0.00014	0.00014
	(!A0 * A2 * !B0 * B1 * B2 * Y)	-0.00041	-0.00040	-0.00040
	(!A0 * A2 * !B0 * B1 * B2 * Y)	-0.00003	-0.00002	-0.00002
	(!A0 * A2 * !B0 * B1 * B2 * Y)	0.00010	0.00010	0.00010
	(!A0 * A2 * !B0 * B1 * B2 * Y)	0.00014	0.00014	0.00014
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00038	-0.00038	-0.00037
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	0.00012	0.00012	0.00012
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	0.00016	0.00017	0.00017
	(!A0 * !A2 * !B2 * Y)	-0.00041	-0.00040	-0.00040
	(!A0 * !A2 * !B2 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A2 * !B2 * Y)	0.00012	0.00012	0.00012
	(!A0 * !A2 * !B2 * Y)	0.00014	0.00014	0.00014
	(!A0 * !A2 * !B1 * B2 * Y)	-0.00041	-0.00040	-0.00040
	(!A0 * !A2 * !B1 * B2 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A2 * !B1 * B2 * Y)	0.00012	0.00012	0.00012
	(!A0 * !A2 * !B1 * B2 * Y)	0.00014	0.00014	0.00014
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00041	-0.00041	-0.00040
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00003	-0.00002	-0.00002
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	0.00012	0.00012	0.00012
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	0.00014	0.00014	0.00014

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X3H7H	**(A0 * A2 * B0 * B1 * B2 * !Y)**	0.00026	0.00026	0.00027
	(A0 * A2 * B0 * B1 * B2 * !Y)	0.00006	0.00006	0.00007
	(A0 * A2 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A2 * B0 * B1 * B2 * !Y)	-0.00059	-0.00058	-0.00058
	(A0 * !A2 * B0 * B1 * B2 * !Y)	0.00038	0.00038	0.00038
	(A0 * !A2 * B0 * B1 * B2 * !Y)	0.00002	0.00003	0.00003
	(A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00004	-0.00003	-0.00003
	(A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00049	-0.00047	-0.00044
	(A0 * !A2 * !B2 * Y)	0.00039	0.00040	0.00042
	(A0 * !A2 * !B2 * Y)	0.00002	0.00003	0.00003
	(A0 * !A2 * !B2 * Y)	-0.00004	-0.00003	-0.00003
	(A0 * !A2 * !B2 * Y)	-0.00049	-0.00046	-0.00041
	(A0 * !A2 * !B1 * B2 * Y)	0.00039	0.00040	0.00042
	(A0 * !A2 * !B1 * B2 * Y)	0.00002	0.00003	0.00003
	(A0 * !A2 * !B1 * B2 * Y)	-0.00004	-0.00003	-0.00003
	(A0 * !A2 * !B1 * B2 * Y)	-0.00049	-0.00046	-0.00042
	(A0 * !A2 * !B0 * B1 * B2 * Y)	0.00039	0.00040	0.00042
	(A0 * !A2 * !B0 * B1 * B2 * Y)	0.00001	0.00002	0.00003
	(A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00004	-0.00003	-0.00003
	(A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00049	-0.00046	-0.00042
	(!A0 * A2 * B0 * B1 * B2 * !Y)	0.00038	0.00038	0.00038
	(!A0 * A2 * B0 * B1 * B2 * !Y)	0.00002	0.00003	0.00003
	(!A0 * A2 * B0 * B1 * B2 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A2 * B0 * B1 * B2 * !Y)	-0.00048	-0.00045	-0.00042
	(!A0 * A2 * !B2 * Y)	0.00040	0.00041	0.00041
	(!A0 * A2 * !B2 * Y)	0.00002	0.00003	0.00003
	(!A0 * A2 * !B2 * Y)	-0.00010	-0.00010	-0.00010
	(!A0 * A2 * !B2 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * A2 * !B1 * B2 * Y)	0.00040	0.00041	0.00041
	(!A0 * A2 * !B1 * B2 * Y)	0.00002	0.00003	0.00003
	(!A0 * A2 * !B1 * B2 * Y)	-0.00010	-0.00010	-0.00010
	(!A0 * A2 * !B1 * B2 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * A2 * !B0 * B1 * B2 * Y)	0.00040	0.00041	0.00041
	(!A0 * A2 * !B0 * B1 * B2 * Y)	0.00002	0.00003	0.00003
	(!A0 * A2 * !B0 * B1 * B2 * Y)	-0.00010	-0.00010	-0.00010
	(!A0 * A2 * !B0 * B1 * B2 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	0.00038	0.00038	0.00038
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00012	-0.00012	-0.00012
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00017	-0.00017	-0.00016
	(!A0 * !A2 * !B2 * Y)	0.00041	0.00041	0.00041
	(!A0 * !A2 * !B2 * Y)	0.00002	0.00003	0.00003
	(!A0 * !A2 * !B2 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * !A2 * !B2 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !A2 * !B1 * B2 * Y)	0.00041	0.00041	0.00041
	(!A0 * !A2 * !B1 * B2 * Y)	0.00002	0.00003	0.00003
	(!A0 * !A2 * !B1 * B2 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * !A2 * !B1 * B2 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	0.00041	0.00041	0.00041
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	0.00002	0.00003	0.00003
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00014	-0.00014	-0.00014

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X3H7H	**(A0 * A1 * B0 * B1 * B2 * !Y)**	-0.00027	-0.00022	-0.00017
	(A0 * A1 * B0 * B1 * B2 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * A1 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * B1 * B2 * !Y)	0.00061	0.00061	0.00062
	(!A1 * B0 * B1 * B2 * !Y)	-0.00038	-0.00038	-0.00038
	(!A1 * B0 * B1 * B2 * !Y)	-0.00003	-0.00002	-0.00002
	(!A1 * B0 * B1 * B2 * !Y)	0.00002	0.00003	0.00004
	(!A1 * B0 * B1 * B2 * !Y)	0.00051	0.00051	0.00052
	(!A1 * !B2 * Y)	-0.00061	-0.00060	-0.00059
	(!A1 * !B2 * Y)	-0.00003	-0.00003	-0.00002
	(!A1 * !B2 * Y)	0.00006	0.00006	0.00006
	(!A1 * !B2 * Y)	0.00014	0.00014	0.00014
	(!A1 * !B1 * B2 * Y)	-0.00060	-0.00060	-0.00059
	(!A1 * !B1 * B2 * Y)	-0.00003	-0.00003	-0.00002
	(!A1 * !B1 * B2 * Y)	0.00006	0.00006	0.00006
	(!A1 * !B1 * B2 * Y)	0.00014	0.00014	0.00014
	(!A1 * !B0 * B1 * B2 * Y)	-0.00060	-0.00060	-0.00059
	(!A1 * !B0 * B1 * B2 * Y)	-0.00003	-0.00003	-0.00002
	(!A1 * !B0 * B1 * B2 * Y)	0.00006	0.00006	0.00006
	(!A1 * !B0 * B1 * B2 * Y)	0.00014	0.00014	0.00014
	(!A0 * A1 * B0 * B1 * B2 * !Y)	-0.00038	-0.00038	-0.00037
	(!A0 * A1 * B0 * B1 * B2 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * B0 * B1 * B2 * !Y)	0.00003	0.00004	0.00004
	(!A0 * A1 * B0 * B1 * B2 * !Y)	0.00049	0.00049	0.00049
	(!A0 * A1 * !B2 * Y)	-0.00060	-0.00060	-0.00059
	(!A0 * A1 * !B2 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * A1 * !B2 * Y)	0.00006	0.00006	0.00006
	(!A0 * A1 * !B2 * Y)	0.00012	0.00013	0.00013
	(!A0 * A1 * !B1 * B2 * Y)	-0.00060	-0.00060	-0.00059
	(!A0 * A1 * !B1 * B2 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * A1 * !B1 * B2 * Y)	0.00006	0.00006	0.00006
	(!A0 * A1 * !B1 * B2 * Y)	0.00012	0.00013	0.00013
	(!A0 * A1 * !B0 * B1 * B2 * Y)	-0.00060	-0.00060	-0.00059
	(!A0 * A1 * !B0 * B1 * B2 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * A1 * !B0 * B1 * B2 * Y)	0.00006	0.00006	0.00006
	(!A0 * A1 * !B0 * B1 * B2 * Y)	0.00012	0.00013	0.00013

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X3H7H	**(A0 * A1 * B0 * B1 * B2 * !Y)**	0.00026	0.00026	0.00027
	(A0 * A1 * B0 * B1 * B2 * !Y)	0.00006	0.00006	0.00006
	(A0 * A1 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B0 * B1 * B2 * !Y)	-0.00061	-0.00061	-0.00060
	(!A1 * B0 * B1 * B2 * !Y)	0.00038	0.00038	0.00038
	(!A1 * B0 * B1 * B2 * !Y)	0.00002	0.00003	0.00003
	(!A1 * B0 * B1 * B2 * !Y)	-0.00004	-0.00003	-0.00002
	(!A1 * B0 * B1 * B2 * !Y)	-0.00051	-0.00049	-0.00046
	(!A1 * !B2 * Y)	0.00060	0.00060	0.00061
	(!A1 * !B2 * Y)	0.00002	0.00003	0.00003
	(!A1 * !B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A1 * !B2 * Y)	-0.00014	-0.00014	-0.00014
	(!A1 * !B1 * B2 * Y)	0.00060	0.00060	0.00061
	(!A1 * !B1 * B2 * Y)	0.00002	0.00003	0.00003
	(!A1 * !B1 * B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A1 * !B1 * B2 * Y)	-0.00014	-0.00014	-0.00014
	(!A1 * !B0 * B1 * B2 * Y)	0.00060	0.00060	0.00061
	(!A1 * !B0 * B1 * B2 * Y)	0.00002	0.00003	0.00003
	(!A1 * !B0 * B1 * B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A1 * !B0 * B1 * B2 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * A1 * B0 * B1 * B2 * !Y)	0.00037	0.00038	0.00038
	(!A0 * A1 * B0 * B1 * B2 * !Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * B0 * B1 * B2 * !Y)	-0.00004	-0.00004	-0.00003
	(!A0 * A1 * B0 * B1 * B2 * !Y)	-0.00049	-0.00045	-0.00040
	(!A0 * A1 * !B2 * Y)	0.00060	0.00060	0.00061
	(!A0 * A1 * !B2 * Y)	0.00002	0.00003	0.00003
	(!A0 * A1 * !B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * A1 * !B2 * Y)	-0.00013	-0.00013	-0.00012
	(!A0 * A1 * !B1 * B2 * Y)	0.00060	0.00060	0.00061
	(!A0 * A1 * !B1 * B2 * Y)	0.00002	0.00003	0.00003
	(!A0 * A1 * !B1 * B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * A1 * !B1 * B2 * Y)	-0.00013	-0.00013	-0.00012
	(!A0 * A1 * !B0 * B1 * B2 * Y)	0.00060	0.00060	0.00061
	(!A0 * A1 * !B0 * B1 * B2 * Y)	0.00002	0.00003	0.00003
	(!A0 * A1 * !B0 * B1 * B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * A1 * !B0 * B1 * B2 * Y)	-0.00013	-0.00013	-0.00012

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X3H7H	**(A0 * A1 * A2 * B1 * B2 * !Y)**	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * B2 * !Y)	-0.00008	-0.00008	-0.00007
	(A0 * A1 * A2 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * B1 * B2 * !Y)	0.00075	0.00076	0.00076
	(A0 * A1 * A2 * B1 * !B2 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * A2 * B1 * !B2 * !Y)	-0.00008	-0.00008	-0.00008
	(A0 * A1 * A2 * B1 * !B2 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * A2 * B1 * !B2 * !Y)	0.00066	0.00066	0.00066
	(A0 * A1 * A2 * !B1 * B2 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * B2 * !Y)	-0.00008	-0.00008	-0.00007
	(A0 * A1 * A2 * !B1 * B2 * !Y)	0.00003	0.00003	0.00004
	(A0 * A1 * A2 * !B1 * B2 * !Y)	0.00068	0.00068	0.00068
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	-0.00008	-0.00007	-0.00007
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	0.00067	0.00067	0.00067
	(!A2 * B1 * !B2 * Y)	-0.00044	-0.00044	-0.00044
	(!A2 * B1 * !B2 * Y)	-0.00002	-0.00002	-0.00002
	(!A2 * B1 * !B2 * Y)	0.00004	0.00004	0.00004
	(!A2 * B1 * !B2 * Y)	0.00044	0.00044	0.00044
	(!A2 * !B1 * B2 * Y)	-0.00044	-0.00044	-0.00043
	(!A2 * !B1 * B2 * Y)	-0.00003	-0.00002	-0.00002
	(!A2 * !B1 * B2 * Y)	0.00004	0.00004	0.00004
	(!A2 * !B1 * B2 * Y)	0.00045	0.00046	0.00046
	(!A2 * !B1 * !B2 * Y)	-0.00044	-0.00044	-0.00043
	(!A2 * !B1 * !B2 * Y)	-0.00003	-0.00003	-0.00002
	(!A2 * !B1 * !B2 * Y)	0.00004	0.00004	0.00004
	(!A2 * !B1 * !B2 * Y)	0.00045	0.00045	0.00045
	(!A1 * A2 * B1 * !B2 * Y)	-0.00044	-0.00044	-0.00044
	(!A1 * A2 * B1 * !B2 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * B1 * !B2 * Y)	0.00004	0.00004	0.00004
	(!A1 * A2 * B1 * !B2 * Y)	0.00044	0.00044	0.00044
	(!A1 * A2 * !B1 * B2 * Y)	-0.00044	-0.00044	-0.00043
	(!A1 * A2 * !B1 * B2 * Y)	-0.00003	-0.00002	-0.00002
	(!A1 * A2 * !B1 * B2 * Y)	0.00003	0.00004	0.00004
	(!A1 * A2 * !B1 * B2 * Y)	0.00044	0.00045	0.00046
	(!A1 * A2 * !B1 * !B2 * Y)	-0.00044	-0.00044	-0.00043
	(!A1 * A2 * !B1 * !B2 * Y)	-0.00003	-0.00003	-0.00002
	(!A1 * A2 * !B1 * !B2 * Y)	0.00004	0.00004	0.00004
	(!A1 * A2 * !B1 * !B2 * Y)	0.00045	0.00045	0.00045
	(!A0 * A1 * A2 * B1 * !B2 * Y)	-0.00044	-0.00044	-0.00043
	(!A0 * A1 * A2 * B1 * !B2 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * A2 * B1 * !B2 * Y)	0.00004	0.00004	0.00004
	(!A0 * A1 * A2 * B1 * !B2 * Y)	0.00044	0.00044	0.00044
	(!A0 * A1 * A2 * !B1 * B2 * Y)	-0.00044	-0.00044	-0.00043
	(!A0 * A1 * A2 * !B1 * B2 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * A2 * !B1 * B2 * Y)	0.00003	0.00004	0.00004
	(!A0 * A1 * A2 * !B1 * B2 * Y)	0.00044	0.00045	0.00046
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	-0.00044	-0.00044	-0.00043
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	0.00004	0.00004	0.00004
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	0.00045	0.00045	0.00045

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X3H7H	**(A0 * A1 * A2 * B1 * B2 * !Y)**	-0.00000	-0.00000	0.00000
	(A0 * A1 * A2 * B1 * B2 * !Y)	0.00008	0.00008	0.00008
	(A0 * A1 * A2 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * B1 * B2 * !Y)	-0.00076	-0.00075	-0.00074
	(A0 * A1 * A2 * B1 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * !B2 * !Y)	0.00008	0.00008	0.00008
	(A0 * A1 * A2 * B1 * !B2 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * A2 * B1 * !B2 * !Y)	-0.00066	-0.00063	-0.00059
	(A0 * A1 * A2 * !B1 * B2 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * B2 * !Y)	0.00007	0.00008	0.00008
	(A0 * A1 * A2 * !B1 * B2 * !Y)	-0.00004	-0.00002	0.00004
	(A0 * A1 * A2 * !B1 * B2 * !Y)	-0.00068	-0.00066	-0.00062
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	0.00007	0.00007	0.00008
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	-0.00067	-0.00065	-0.00060
	(!A2 * B1 * !B2 * Y)	0.00044	0.00044	0.00044
	(!A2 * B1 * !B2 * Y)	0.00002	0.00003	0.00003
	(!A2 * B1 * !B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A2 * B1 * !B2 * Y)	-0.00044	-0.00040	-0.00035
	(!A2 * !B1 * B2 * Y)	0.00044	0.00044	0.00044
	(!A2 * !B1 * B2 * Y)	0.00002	0.00003	0.00003
	(!A2 * !B1 * B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A2 * !B1 * B2 * Y)	-0.00046	-0.00042	-0.00038
	(!A2 * !B1 * !B2 * Y)	0.00044	0.00044	0.00044
	(!A2 * !B1 * !B2 * Y)	0.00002	0.00003	0.00003
	(!A2 * !B1 * !B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A2 * !B1 * !B2 * Y)	-0.00045	-0.00042	-0.00038
	(!A1 * A2 * B1 * !B2 * Y)	0.00044	0.00044	0.00044
	(!A1 * A2 * B1 * !B2 * Y)	0.00002	0.00003	0.00003
	(!A1 * A2 * B1 * !B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * A2 * B1 * !B2 * Y)	-0.00044	-0.00040	-0.00035
	(!A1 * A2 * !B1 * B2 * Y)	0.00044	0.00044	0.00044
	(!A1 * A2 * !B1 * B2 * Y)	0.00002	0.00003	0.00003
	(!A1 * A2 * !B1 * B2 * Y)	-0.00004	-0.00004	-0.00003
	(!A1 * A2 * !B1 * B2 * Y)	-0.00045	-0.00042	-0.00038
	(!A1 * A2 * !B1 * !B2 * Y)	0.00044	0.00044	0.00044
	(!A1 * A2 * !B1 * !B2 * Y)	0.00002	0.00003	0.00003
	(!A1 * A2 * !B1 * !B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * A2 * !B1 * !B2 * Y)	-0.00045	-0.00042	-0.00038
	(!A0 * A1 * A2 * B1 * !B2 * Y)	0.00044	0.00044	0.00044
	(!A0 * A1 * A2 * B1 * !B2 * Y)	0.00002	0.00003	0.00003
	(!A0 * A1 * A2 * B1 * !B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A1 * A2 * B1 * !B2 * Y)	-0.00044	-0.00040	-0.00035
	(!A0 * A1 * A2 * !B1 * B2 * Y)	0.00044	0.00044	0.00044
	(!A0 * A1 * A2 * !B1 * B2 * Y)	0.00002	0.00003	0.00003
	(!A0 * A1 * A2 * !B1 * B2 * Y)	-0.00004	-0.00004	-0.00003
	(!A0 * A1 * A2 * !B1 * B2 * Y)	-0.00046	-0.00042	-0.00038
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	0.00044	0.00044	0.00044
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	0.00002	0.00003	0.00003
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	-0.00045	-0.00042	-0.00038

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X3H7H	**(A0 * A1 * A2 * B0 * B2 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * B2 * !Y)	-0.00007	-0.00007	-0.00007
	(A0 * A1 * A2 * B0 * B2 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * A2 * B0 * B2 * !Y)	0.00077	0.00077	0.00078
	(A0 * A1 * A2 * B0 * !B2 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * !B2 * !Y)	-0.00007	-0.00007	-0.00007
	(A0 * A1 * A2 * B0 * !B2 * !Y)	0.00003	0.00004	0.00004
	(A0 * A1 * A2 * B0 * !B2 * !Y)	0.00070	0.00070	0.00071
	(A0 * A1 * A2 * !B0 * B2 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * A2 * !B0 * B2 * !Y)	-0.00007	-0.00007	-0.00007
	(A0 * A1 * A2 * !B0 * B2 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * A2 * !B0 * B2 * !Y)	0.00068	0.00069	0.00069
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	-0.00007	-0.00007	-0.00007
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	0.00012	0.00012	0.00012
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	0.00038	0.00038	0.00038
	(!A2 * B0 * !B2 * Y)	-0.00044	-0.00044	-0.00044
	(!A2 * B0 * !B2 * Y)	-0.00003	-0.00002	-0.00002
	(!A2 * B0 * !B2 * Y)	0.00003	0.00003	0.00004
	(!A2 * B0 * !B2 * Y)	0.00046	0.00047	0.00047
	(!A2 * !B0 * B2 * Y)	-0.00046	-0.00046	-0.00046
	(!A2 * !B0 * B2 * Y)	-0.00003	-0.00002	-0.00002
	(!A2 * !B0 * B2 * Y)	0.00010	0.00010	0.00010
	(!A2 * !B0 * B2 * Y)	0.00011	0.00011	0.00011
	(!A2 * !B0 * !B2 * Y)	-0.00047	-0.00046	-0.00046
	(!A2 * !B0 * !B2 * Y)	-0.00003	-0.00002	-0.00002
	(!A2 * !B0 * !B2 * Y)	0.00012	0.00012	0.00012
	(!A2 * !B0 * !B2 * Y)	0.00011	0.00011	0.00012
	(!A1 * A2 * B0 * !B2 * Y)	-0.00044	-0.00044	-0.00044
	(!A1 * A2 * B0 * !B2 * Y)	-0.00003	-0.00002	-0.00002
	(!A1 * A2 * B0 * !B2 * Y)	0.00003	0.00003	0.00003
	(!A1 * A2 * B0 * !B2 * Y)	0.00046	0.00047	0.00047
	(!A1 * A2 * !B0 * B2 * Y)	-0.00046	-0.00046	-0.00046
	(!A1 * A2 * !B0 * B2 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * !B0 * B2 * Y)	0.00010	0.00010	0.00010
	(!A1 * A2 * !B0 * B2 * Y)	0.00011	0.00011	0.00011
	(!A1 * A2 * !B0 * !B2 * Y)	-0.00047	-0.00046	-0.00046
	(!A1 * A2 * !B0 * !B2 * Y)	-0.00003	-0.00002	-0.00002
	(!A1 * A2 * !B0 * !B2 * Y)	0.00012	0.00012	0.00012
	(!A1 * A2 * !B0 * !B2 * Y)	0.00011	0.00011	0.00012
	(!A0 * A1 * A2 * B0 * !B2 * Y)	-0.00044	-0.00044	-0.00044
	(!A0 * A1 * A2 * B0 * !B2 * Y)	-0.00003	-0.00002	-0.00002
	(!A0 * A1 * A2 * B0 * !B2 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * A2 * B0 * !B2 * Y)	0.00046	0.00047	0.00047
	(!A0 * A1 * A2 * !B0 * B2 * Y)	-0.00046	-0.00046	-0.00046
	(!A0 * A1 * A2 * !B0 * B2 * Y)	-0.00003	-0.00002	-0.00002
	(!A0 * A1 * A2 * !B0 * B2 * Y)	0.00010	0.00010	0.00010
	(!A0 * A1 * A2 * !B0 * B2 * Y)	0.00011	0.00011	0.00011
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	-0.00047	-0.00046	-0.00046
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	-0.00003	-0.00002	-0.00002
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	0.00012	0.00012	0.00012
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	0.00011	0.00011	0.00012

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X3H7H	**(A0 * A1 * A2 * B0 * B2 * !Y)**	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * B2 * !Y)	0.00007	0.00008	0.00008
	(A0 * A1 * A2 * B0 * B2 * !Y)	-0.00001	-0.00001	0.00000
	(A0 * A1 * A2 * B0 * B2 * !Y)	-0.00078	-0.00076	-0.00075
	(A0 * A1 * A2 * B0 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * !B2 * !Y)	0.00007	0.00007	0.00007
	(A0 * A1 * A2 * B0 * !B2 * !Y)	-0.00004	-0.00003	-0.00003
	(A0 * A1 * A2 * B0 * !B2 * !Y)	-0.00071	-0.00068	-0.00064
	(A0 * A1 * A2 * !B0 * B2 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * B2 * !Y)	0.00007	0.00007	0.00007
	(A0 * A1 * A2 * !B0 * B2 * !Y)	-0.00004	-0.00004	-0.00003
	(A0 * A1 * A2 * !B0 * B2 * !Y)	-0.00069	-0.00066	-0.00063
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	0.00007	0.00007	0.00007
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	-0.00012	-0.00012	-0.00012
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	-0.00038	-0.00038	-0.00038
	(!A2 * B0 * !B2 * Y)	0.00044	0.00045	0.00047
	(!A2 * B0 * !B2 * Y)	0.00002	0.00003	0.00003
	(!A2 * B0 * !B2 * Y)	-0.00004	-0.00003	-0.00003
	(!A2 * B0 * !B2 * Y)	-0.00047	-0.00044	-0.00040
	(!A2 * !B0 * B2 * Y)	0.00046	0.00046	0.00047
	(!A2 * !B0 * B2 * Y)	0.00002	0.00003	0.00003
	(!A2 * !B0 * B2 * Y)	-0.00010	-0.00010	-0.00010
	(!A2 * !B0 * B2 * Y)	-0.00011	-0.00011	-0.00011
	(!A2 * !B0 * !B2 * Y)	0.00047	0.00047	0.00047
	(!A2 * !B0 * !B2 * Y)	0.00002	0.00003	0.00003
	(!A2 * !B0 * !B2 * Y)	-0.00012	-0.00012	-0.00012
	(!A2 * !B0 * !B2 * Y)	-0.00012	-0.00011	-0.00011
	(!A1 * A2 * B0 * !B2 * Y)	0.00044	0.00045	0.00047
	(!A1 * A2 * B0 * !B2 * Y)	0.00003	0.00003	0.00003
	(!A1 * A2 * B0 * !B2 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * A2 * B0 * !B2 * Y)	-0.00047	-0.00044	-0.00040
	(!A1 * A2 * !B0 * B2 * Y)	0.00046	0.00046	0.00047
	(!A1 * A2 * !B0 * B2 * Y)	0.00002	0.00003	0.00003
	(!A1 * A2 * !B0 * B2 * Y)	-0.00010	-0.00010	-0.00010
	(!A1 * A2 * !B0 * B2 * Y)	-0.00011	-0.00011	-0.00011
	(!A1 * A2 * !B0 * !B2 * Y)	0.00047	0.00047	0.00047
	(!A1 * A2 * !B0 * !B2 * Y)	0.00002	0.00003	0.00003
	(!A1 * A2 * !B0 * !B2 * Y)	-0.00012	-0.00012	-0.00012
	(!A1 * A2 * !B0 * !B2 * Y)	-0.00012	-0.00011	-0.00011
	(!A0 * A1 * A2 * B0 * !B2 * Y)	0.00044	0.00045	0.00047
	(!A0 * A1 * A2 * B0 * !B2 * Y)	0.00002	0.00003	0.00003
	(!A0 * A1 * A2 * B0 * !B2 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * A2 * B0 * !B2 * Y)	-0.00047	-0.00044	-0.00039
	(!A0 * A1 * A2 * !B0 * B2 * Y)	0.00046	0.00046	0.00047
	(!A0 * A1 * A2 * !B0 * B2 * Y)	0.00002	0.00003	0.00003
	(!A0 * A1 * A2 * !B0 * B2 * Y)	-0.00010	-0.00010	-0.00010
	(!A0 * A1 * A2 * !B0 * B2 * Y)	-0.00011	-0.00011	-0.00011
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	0.00047	0.00047	0.00047
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	0.00002	0.00003	0.00003
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	-0.00012	-0.00011	-0.00011

Passive power(pJ) for B2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X3H7H	**(A0 * A1 * A2 * B0 * B1 * !Y)**	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * B1 * !Y)	-0.00008	-0.00008	-0.00008
	(A0 * A1 * A2 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * B0 * B1 * !Y)	0.00077	0.00077	0.00078
	(A0 * A1 * A2 * !B1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !Y)	-0.00008	-0.00008	-0.00008
	(A0 * A1 * A2 * !B1 * !Y)	0.00003	0.00004	0.00004
	(A0 * A1 * A2 * !B1 * !Y)	0.00069	0.00070	0.00070
	(A0 * A1 * A2 * !B0 * B1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * A2 * !B0 * B1 * !Y)	-0.00008	-0.00008	-0.00008
	(A0 * A1 * A2 * !B0 * B1 * !Y)	0.00003	0.00004	0.00004
	(A0 * A1 * A2 * !B0 * B1 * !Y)	0.00068	0.00068	0.00068
	(!A2 * !B1 * Y)	-0.00067	-0.00067	-0.00066
	(!A2 * !B1 * Y)	-0.00003	-0.00002	-0.00002
	(!A2 * !B1 * Y)	0.00006	0.00006	0.00006
	(!A2 * !B1 * Y)	0.00010	0.00011	0.00011
	(!A2 * !B0 * B1 * Y)	-0.00067	-0.00067	-0.00066
	(!A2 * !B0 * B1 * Y)	-0.00003	-0.00003	-0.00002
	(!A2 * !B0 * B1 * Y)	0.00006	0.00006	0.00006
	(!A2 * !B0 * B1 * Y)	0.00009	0.00009	0.00009
	(!A1 * A2 * !B1 * Y)	-0.00067	-0.00067	-0.00066
	(!A1 * A2 * !B1 * Y)	-0.00003	-0.00002	-0.00002
	(!A1 * A2 * !B1 * Y)	0.00006	0.00006	0.00006
	(!A1 * A2 * !B1 * Y)	0.00010	0.00011	0.00011
	(!A1 * A2 * !B0 * B1 * Y)	-0.00067	-0.00067	-0.00066
	(!A1 * A2 * !B0 * B1 * Y)	-0.00003	-0.00003	-0.00002
	(!A1 * A2 * !B0 * B1 * Y)	0.00006	0.00006	0.00006
	(!A1 * A2 * !B0 * B1 * Y)	0.00009	0.00009	0.00009
	(!A0 * A1 * A2 * !B1 * Y)	-0.00067	-0.00067	-0.00066
	(!A0 * A1 * A2 * !B1 * Y)	-0.00003	-0.00002	-0.00002
	(!A0 * A1 * A2 * !B1 * Y)	0.00006	0.00006	0.00006
	(!A0 * A1 * A2 * !B1 * Y)	0.00010	0.00011	0.00011
	(!A0 * A1 * A2 * !B0 * B1 * Y)	-0.00067	-0.00067	-0.00066
	(!A0 * A1 * A2 * !B0 * B1 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * A1 * A2 * !B0 * B1 * Y)	0.00006	0.00006	0.00006
	(!A0 * A1 * A2 * !B0 * B1 * Y)	0.00009	0.00009	0.00009

Passive power(pJ) for B2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X3H7H	**(A0 * A1 * A2 * B0 * B1 * !Y)**	-0.00000	-0.00000	0.00000
	(A0 * A1 * A2 * B0 * B1 * !Y)	0.00008	0.00009	0.00009
	(A0 * A1 * A2 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * B0 * B1 * !Y)	-0.00078	-0.00076	-0.00075
	(A0 * A1 * A2 * !B1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !Y)	0.00008	0.00008	0.00008
	(A0 * A1 * A2 * !B1 * !Y)	-0.00004	-0.00004	-0.00003
	(A0 * A1 * A2 * !B1 * !Y)	-0.00070	-0.00068	-0.00065
	(A0 * A1 * A2 * !B0 * B1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * B1 * !Y)	0.00008	0.00008	0.00008
	(A0 * A1 * A2 * !B0 * B1 * !Y)	-0.00004	-0.00004	-0.00003
	(A0 * A1 * A2 * !B0 * B1 * !Y)	-0.00068	-0.00063	-0.00059
	(!A2 * !B1 * Y)	0.00066	0.00067	0.00067
	(!A2 * !B1 * Y)	0.00002	0.00003	0.00003
	(!A2 * !B1 * Y)	-0.00006	-0.00006	-0.00006
	(!A2 * !B1 * Y)	-0.00011	-0.00011	-0.00010
	(!A2 * !B0 * B1 * Y)	0.00067	0.00067	0.00067
	(!A2 * !B0 * B1 * Y)	0.00002	0.00003	0.00003
	(!A2 * !B0 * B1 * Y)	-0.00006	-0.00006	-0.00006
	(!A2 * !B0 * B1 * Y)	-0.00009	-0.00009	-0.00009
	(!A1 * A2 * !B1 * Y)	0.00066	0.00067	0.00067
	(!A1 * A2 * !B1 * Y)	0.00002	0.00003	0.00003
	(!A1 * A2 * !B1 * Y)	-0.00006	-0.00006	-0.00006
	(!A1 * A2 * !B1 * Y)	-0.00011	-0.00011	-0.00010
	(!A1 * A2 * !B0 * B1 * Y)	0.00067	0.00067	0.00067
	(!A1 * A2 * !B0 * B1 * Y)	0.00002	0.00003	0.00003
	(!A1 * A2 * !B0 * B1 * Y)	-0.00006	-0.00006	-0.00006
	(!A1 * A2 * !B0 * B1 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * A1 * A2 * !B1 * Y)	0.00066	0.00067	0.00067
	(!A0 * A1 * A2 * !B1 * Y)	0.00002	0.00003	0.00003
	(!A0 * A1 * A2 * !B1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * A1 * A2 * !B1 * Y)	-0.00011	-0.00011	-0.00010
	(!A0 * A1 * A2 * !B0 * B1 * Y)	0.00067	0.00067	0.00067
	(!A0 * A1 * A2 * !B0 * B1 * Y)	0.00002	0.00003	0.00003
	(!A0 * A1 * A2 * !B0 * B1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * A1 * A2 * !B0 * B1 * Y)	-0.00009	-0.00009	-0.00009

AOI33X4H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

AOI

Y=! (A0 & A1 & A2)+ (B0 & B1 & B2)

Truth Table

INPUT						OUTPUT
A0	A1	A2	B0	B1	B2	Y
0	x	x	0	x	x	1
0	x	x	1	0	x	1
0	x	x	1	1	0	1
x	x	x	1	1	1	0
1	0	x	0	x	x	1
1	0	x	1	0	x	1
1	0	x	1	1	0	1
1	1	0	0	x	x	1
1	1	0	1	0	x	1
1	1	0	1	1	0	1
1	1	1	x	x	x	0

Footprint

Cell Name	Area
AOI33X4H7H	5.88000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	**A1**	**A2**	**B0**	**B1**	**B2**	**Y**
AOI33X4H7H	0.00207	0.00205	0.00222	0.00221	0.00223	0.00231	0.05159

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
AOI33X4H7H	0.00000	0.05248	0.11927

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI33X4H7H	A0->Y (FR)	0.07792	0.26391	0.77477
	A1->Y (FR)	0.07250	0.25694	0.76757
	A2->Y (FR)	0.06569	0.24877	0.75999
	B0->Y (FR)	0.06130	0.24061	0.75028
	B1->Y (FR)	0.05625	0.23371	0.74174
	B2->Y (FR)	0.04916	0.22500	0.73541

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI33X4H7H	A0->Y (RF)	0.06990	0.24149	0.71511
	A1->Y (RF)	0.06710	0.24249	0.73945
	A2->Y (RF)	0.06015	0.22993	0.71921
	B0->Y (RF)	0.04803	0.21474	0.68946
	B1->Y (RF)	0.04567	0.21506	0.71402
	B2->Y (RF)	0.03770	0.20066	0.69589

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI33X4H7H	A0	0.00608	0.00619	0.00625
	A0	-0.00080	-0.00079	-0.00075
	A0	0.00071	0.00072	0.00073
	A0	-0.00011	-0.00005	-0.00001
	A1	0.00566	0.00576	0.00582
	A1	-0.00081	-0.00079	-0.00077
	A1	0.00058	0.00059	0.00059
	A1	-0.00007	0.00001	0.00006
	A2	0.00518	0.00528	0.00536
	A2	-0.00079	-0.00079	-0.00075
	A2	0.00041	0.00045	0.00049
	A2	-0.00012	0.00001	0.00010
	B0	0.00431	0.00444	0.00452
	B0	-0.00032	-0.00032	-0.00028
	B0	0.00071	0.00072	0.00073
	B0	-0.00029	-0.00021	-0.00015
	B1	0.00383	0.00402	0.00411
	B1	-0.00032	-0.00032	-0.00028
	B1	0.00058	0.00059	0.00060
	B1	-0.00026	-0.00016	-0.00009
	B2	0.00345	0.00357	0.00367
	B2	-0.00032	-0.00032	-0.00028
	B2	0.00041	0.00045	0.00049
	B2	-0.00027	-0.00015	-0.00006

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI33X4H7H	A0	-0.00032	-0.00025	-0.00021
	A0	0.00084	0.00085	0.00086
	A0	-0.00046	-0.00046	-0.00043
	A0	0.00609	0.00617	0.00622
	A1	-0.00032	-0.00025	-0.00021
	A1	0.00084	0.00085	0.00089
	A1	-0.00032	-0.00032	-0.00028
	A1	0.00544	0.00553	0.00559
	A2	-0.00035	-0.00027	-0.00021
	A2	0.00075	0.00079	0.00088
	A2	-0.00019	-0.00018	-0.00014
	A2	0.00474	0.00493	0.00502
	B0	-0.00026	-0.00016	-0.00010
	B0	0.00030	0.00032	0.00035
	B0	-0.00045	-0.00044	-0.00041
	B0	0.00490	0.00499	0.00505
	B1	-0.00026	-0.00016	-0.00009
	B1	0.00031	0.00032	0.00034
	B1	-0.00035	-0.00032	-0.00031
	B1	0.00430	0.00439	0.00445
	B2	-0.00031	-0.00020	-0.00012
	B2	0.00030	0.00032	0.00033
	B2	-0.00019	-0.00017	-0.00010
	B2	0.00364	0.00376	0.00385

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X4H7H	(A1 * A2 * B0 * B1 * B2 * !Y)	-0.00033	-0.00028	-0.00022
	(A1 * A2 * B0 * B1 * B2 * !Y)	-0.00009	-0.00008	-0.00008
	(A1 * A2 * B0 * B1 * B2 * !Y)	0.00000	0.00001	0.00002
	(A1 * A2 * B0 * B1 * B2 * !Y)	0.00067	0.00068	0.00069
	(A1 * !A2 * B0 * B1 * B2 * !Y)	-0.00046	-0.00046	-0.00046
	(A1 * !A2 * B0 * B1 * B2 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * !A2 * B0 * B1 * B2 * !Y)	0.00005	0.00005	0.00005
	(A1 * !A2 * B0 * B1 * B2 * !Y)	0.00053	0.00054	0.00054
	(A1 * !A2 * !B2 * Y)	-0.00047	-0.00047	-0.00046
	(A1 * !A2 * !B2 * Y)	-0.00003	-0.00003	-0.00001
	(A1 * !A2 * !B2 * Y)	0.00005	0.00005	0.00005
	(A1 * !A2 * !B2 * Y)	0.00053	0.00054	0.00054
	(A1 * !A2 * !B1 * B2 * Y)	-0.00047	-0.00047	-0.00046
	(A1 * !A2 * !B1 * B2 * Y)	-0.00003	-0.00003	-0.00002
	(A1 * !A2 * !B1 * B2 * Y)	0.00005	0.00005	0.00005
	(A1 * !A2 * !B1 * B2 * Y)	0.00053	0.00054	0.00054
	(A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00047	-0.00047	-0.00046
	(A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00003	-0.00003	-0.00001
	(A1 * !A2 * !B0 * B1 * B2 * Y)	0.00005	0.00005	0.00005
	(A1 * !A2 * !B0 * B1 * B2 * Y)	0.00053	0.00054	0.00054
	(!A1 * B0 * B1 * B2 * !Y)	-0.00046	-0.00046	-0.00046
	(!A1 * B0 * B1 * B2 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1 * B0 * B1 * B2 * !Y)	0.00005	0.00005	0.00005
	(!A1 * B0 * B1 * B2 * !Y)	0.00056	0.00056	0.00056
	(!A1 * A2 * !B2 * Y)	-0.00047	-0.00047	-0.00046
	(!A1 * A2 * !B2 * Y)	-0.00004	-0.00003	-0.00003
	(!A1 * A2 * !B2 * Y)	0.00004	0.00005	0.00005
	(!A1 * A2 * !B2 * Y)	0.00055	0.00056	0.00056
	(!A1 * A2 * !B1 * B2 * Y)	-0.00047	-0.00047	-0.00046
	(!A1 * A2 * !B1 * B2 * Y)	-0.00003	-0.00003	-0.00002
	(!A1 * A2 * !B1 * B2 * Y)	0.00004	0.00005	0.00005
	(!A1 * A2 * !B1 * B2 * Y)	0.00055	0.00056	0.00056
	(!A1 * A2 * !B0 * B1 * B2 * Y)	-0.00047	-0.00047	-0.00046
	(!A1 * A2 * !B0 * B1 * B2 * Y)	-0.00003	-0.00003	-0.00002
	(!A1 * A2 * !B0 * B1 * B2 * Y)	0.00004	0.00005	0.00005
	(!A1 * A2 * !B0 * B1 * B2 * Y)	0.00055	0.00056	0.00056
	(!A1 * !A2 * !B2 * Y)	-0.00047	-0.00047	-0.00046
	(!A1 * !A2 * !B2 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !A2 * !B2 * Y)	0.00005	0.00005	0.00005
	(!A1 * !A2 * !B2 * Y)	0.00055	0.00055	0.00056
	(!A1 * !A2 * !B1 * B2 * Y)	-0.00047	-0.00047	-0.00046
	(!A1 * !A2 * !B1 * B2 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !A2 * !B1 * B2 * Y)	0.00005	0.00005	0.00005
	(!A1 * !A2 * !B1 * B2 * Y)	0.00055	0.00055	0.00056
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00047	-0.00047	-0.00046
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	0.00005	0.00005	0.00005
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	0.00055	0.00055	0.00056

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X4H7H	**(A1 * A2 * B0 * B1 * B2 * !Y)**	0.00033	0.00033	0.00033
	(A1 * A2 * B0 * B1 * B2 * !Y)	0.00008	0.00008	0.00009
	(A1 * A2 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	0.00000
	(A1 * A2 * B0 * B1 * B2 * !Y)	-0.00067	-0.00067	-0.00067
	(A1 * !A2 * B0 * B1 * B2 * !Y)	0.00046	0.00046	0.00046
	(A1 * !A2 * B0 * B1 * B2 * !Y)	0.00003	0.00003	0.00003
	(A1 * !A2 * B0 * B1 * B2 * !Y)	-0.00005	-0.00005	-0.00005
	(A1 * !A2 * B0 * B1 * B2 * !Y)	-0.00054	-0.00051	-0.00045
	(A1 * !A2 * !B2 * Y)	0.00047	0.00047	0.00047
	(A1 * !A2 * !B2 * Y)	0.00001	0.00003	0.00003
	(A1 * !A2 * !B2 * Y)	-0.00005	-0.00005	-0.00005
	(A1 * !A2 * !B2 * Y)	-0.00054	-0.00050	-0.00045
	(A1 * !A2 * !B1 * B2 * Y)	0.00047	0.00047	0.00047
	(A1 * !A2 * !B1 * B2 * Y)	0.00002	0.00003	0.00003
	(A1 * !A2 * !B1 * B2 * Y)	-0.00005	-0.00005	-0.00005
	(A1 * !A2 * !B1 * B2 * Y)	-0.00054	-0.00050	-0.00045
	(A1 * !A2 * !B0 * B1 * B2 * Y)	0.00047	0.00047	0.00047
	(A1 * !A2 * !B0 * B1 * B2 * Y)	0.00001	0.00003	0.00003
	(A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00005	-0.00005	-0.00005
	(A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00054	-0.00050	-0.00045
	(!A1 * B0 * B1 * B2 * !Y)	0.00046	0.00046	0.00046
	(!A1 * B0 * B1 * B2 * !Y)	0.00003	0.00003	0.00003
	(!A1 * B0 * B1 * B2 * !Y)	-0.00005	-0.00005	-0.00005
	(!A1 * B0 * B1 * B2 * !Y)	-0.00056	-0.00054	-0.00050
	(!A1 * A2 * !B2 * Y)	0.00046	0.00047	0.00047
	(!A1 * A2 * !B2 * Y)	0.00003	0.00003	0.00004
	(!A1 * A2 * !B2 * Y)	-0.00005	-0.00005	-0.00004
	(!A1 * A2 * !B2 * Y)	-0.00056	-0.00052	-0.00047
	(!A1 * A2 * !B1 * B2 * Y)	0.00046	0.00047	0.00047
	(!A1 * A2 * !B1 * B2 * Y)	0.00002	0.00003	0.00003
	(!A1 * A2 * !B1 * B2 * Y)	-0.00005	-0.00005	-0.00004
	(!A1 * A2 * !B1 * B2 * Y)	-0.00056	-0.00052	-0.00048
	(!A1 * A2 * !B0 * B1 * B2 * Y)	0.00046	0.00047	0.00047
	(!A1 * A2 * !B0 * B1 * B2 * Y)	0.00002	0.00003	0.00003
	(!A1 * A2 * !B0 * B1 * B2 * Y)	-0.00005	-0.00005	-0.00004
	(!A1 * A2 * !B0 * B1 * B2 * Y)	-0.00056	-0.00052	-0.00048
	(!A1 * !A2 * !B2 * Y)	0.00047	0.00047	0.00047
	(!A1 * !A2 * !B2 * Y)	0.00003	0.00003	0.00003
	(!A1 * !A2 * !B2 * Y)	-0.00005	-0.00005	-0.00005
	(!A1 * !A2 * !B2 * Y)	-0.00055	-0.00052	-0.00048
	(!A1 * !A2 * !B1 * B2 * Y)	0.00047	0.00047	0.00047
	(!A1 * !A2 * !B1 * B2 * Y)	0.00003	0.00003	0.00003
	(!A1 * !A2 * !B1 * B2 * Y)	-0.00005	-0.00005	-0.00005
	(!A1 * !A2 * !B1 * B2 * Y)	-0.00055	-0.00052	-0.00048
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	0.00047	0.00047	0.00047
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	0.00003	0.00003	0.00003
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00005	-0.00005	-0.00005
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00056	-0.00052	-0.00047

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X4H7H	**(A0 * A2 * B0 * B1 * B2 * !Y)**	-0.00034	-0.00029	-0.00022
	(A0 * A2 * B0 * B1 * B2 * !Y)	-0.00008	-0.00008	-0.00008
	(A0 * A2 * B0 * B1 * B2 * !Y)	0.00001	0.00002	0.00003
	(A0 * A2 * B0 * B1 * B2 * !Y)	0.00064	0.00064	0.00065
	(A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00048	-0.00047	-0.00047
	(A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * !A2 * B0 * B1 * B2 * !Y)	0.00005	0.00005	0.00005
	(A0 * !A2 * B0 * B1 * B2 * !Y)	0.00054	0.00054	0.00054
	(A0 * !A2 * !B2 * Y)	-0.00048	-0.00048	-0.00047
	(A0 * !A2 * !B2 * Y)	-0.00003	-0.00003	-0.00001
	(A0 * !A2 * !B2 * Y)	0.00004	0.00004	0.00005
	(A0 * !A2 * !B2 * Y)	0.00054	0.00054	0.00054
	(A0 * !A2 * !B1 * B2 * Y)	-0.00048	-0.00048	-0.00048
	(A0 * !A2 * !B1 * B2 * Y)	-0.00004	-0.00003	-0.00003
	(A0 * !A2 * !B1 * B2 * Y)	0.00004	0.00004	0.00005
	(A0 * !A2 * !B1 * B2 * Y)	0.00054	0.00054	0.00054
	(A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00048	-0.00048	-0.00047
	(A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * !A2 * !B0 * B1 * B2 * Y)	0.00004	0.00004	0.00005
	(A0 * !A2 * !B0 * B1 * B2 * Y)	0.00054	0.00054	0.00054
	(!A0 * A2 * B0 * B1 * B2 * !Y)	-0.00047	-0.00047	-0.00047
	(!A0 * A2 * B0 * B1 * B2 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A2 * B0 * B1 * B2 * !Y)	0.00005	0.00005	0.00005
	(!A0 * A2 * B0 * B1 * B2 * !Y)	0.00052	0.00052	0.00053
	(!A0 * A2 * !B2 * Y)	-0.00050	-0.00050	-0.00049
	(!A0 * A2 * !B2 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A2 * !B2 * Y)	0.00013	0.00014	0.00014
	(!A0 * A2 * !B2 * Y)	0.00013	0.00013	0.00013
	(!A0 * A2 * !B1 * B2 * Y)	-0.00050	-0.00049	-0.00049
	(!A0 * A2 * !B1 * B2 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * A2 * !B1 * B2 * Y)	0.00013	0.00013	0.00014
	(!A0 * A2 * !B1 * B2 * Y)	0.00012	0.00013	0.00013
	(!A0 * A2 * !B0 * B1 * B2 * Y)	-0.00050	-0.00050	-0.00049
	(!A0 * A2 * !B0 * B1 * B2 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A2 * !B0 * B1 * B2 * Y)	0.00013	0.00014	0.00014
	(!A0 * A2 * !B0 * B1 * B2 * Y)	0.00013	0.00013	0.00013
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00047	-0.00047	-0.00047
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	0.00016	0.00016	0.00016
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	0.00015	0.00015	0.00015
	(!A0 * !A2 * !B2 * Y)	-0.00050	-0.00050	-0.00049
	(!A0 * !A2 * !B2 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A2 * !B2 * Y)	0.00015	0.00015	0.00016
	(!A0 * !A2 * !B2 * Y)	0.00013	0.00013	0.00013
	(!A0 * !A2 * !B1 * B2 * Y)	-0.00050	-0.00050	-0.00049
	(!A0 * !A2 * !B1 * B2 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A2 * !B1 * B2 * Y)	0.00015	0.00015	0.00016
	(!A0 * !A2 * !B1 * B2 * Y)	0.00013	0.00013	0.00013
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00050	-0.00050	-0.00049
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	0.00015	0.00015	0.00016
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	0.00012	0.00013	0.00013

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X4H7H	(A0 * A2 * B0 * B1 * B2 * !Y)	0.00033	0.00033	0.00034
	(A0 * A2 * B0 * B1 * B2 * !Y)	0.00008	0.00008	0.00008
	(A0 * A2 * B0 * B1 * B2 * !Y)	-0.00002	-0.00001	-0.00001
	(A0 * A2 * B0 * B1 * B2 * !Y)	-0.00064	-0.00064	-0.00063
	(A0 * !A2 * B0 * B1 * B2 * !Y)	0.00047	0.00047	0.00048
	(A0 * !A2 * B0 * B1 * B2 * !Y)	0.00003	0.00003	0.00003
	(A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00005	-0.00005	-0.00004
	(A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00054	-0.00051	-0.00048
	(A0 * !A2 * !B2 * Y)	0.00048	0.00049	0.00051
	(A0 * !A2 * !B2 * Y)	0.00003	0.00003	0.00005
	(A0 * !A2 * !B2 * Y)	-0.00005	-0.00004	-0.00004
	(A0 * !A2 * !B2 * Y)	-0.00054	-0.00050	-0.00044
	(A0 * !A2 * !B1 * B2 * Y)	0.00048	0.00049	0.00051
	(A0 * !A2 * !B1 * B2 * Y)	0.00003	0.00003	0.00004
	(A0 * !A2 * !B1 * B2 * Y)	-0.00005	-0.00004	-0.00004
	(A0 * !A2 * !B1 * B2 * Y)	-0.00054	-0.00050	-0.00044
	(A0 * !A2 * !B0 * B1 * B2 * Y)	0.00048	0.00049	0.00051
	(A0 * !A2 * !B0 * B1 * B2 * Y)	0.00003	0.00003	0.00005
	(A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00005	-0.00004	-0.00004
	(A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00054	-0.00050	-0.00044
	(!A0 * A2 * B0 * B1 * B2 * !Y)	0.00047	0.00047	0.00047
	(!A0 * A2 * B0 * B1 * B2 * !Y)	0.00003	0.00003	0.00004
	(!A0 * A2 * B0 * B1 * B2 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * A2 * B0 * B1 * B2 * !Y)	-0.00053	-0.00049	-0.00045
	(!A0 * A2 * !B2 * Y)	0.00050	0.00050	0.00050
	(!A0 * A2 * !B2 * Y)	0.00003	0.00003	0.00003
	(!A0 * A2 * !B2 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * A2 * !B2 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * A2 * !B1 * B2 * Y)	0.00050	0.00050	0.00050
	(!A0 * A2 * !B1 * B2 * Y)	0.00003	0.00003	0.00003
	(!A0 * A2 * !B1 * B2 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * A2 * !B1 * B2 * Y)	-0.00013	-0.00013	-0.00012
	(!A0 * A2 * !B0 * B1 * B2 * Y)	0.00050	0.00050	0.00050
	(!A0 * A2 * !B0 * B1 * B2 * Y)	0.00003	0.00003	0.00003
	(!A0 * A2 * !B0 * B1 * B2 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * A2 * !B0 * B1 * B2 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	0.00047	0.00047	0.00048
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !A2 * !B2 * Y)	0.00050	0.00051	0.00051
	(!A0 * !A2 * !B2 * Y)	0.00003	0.00003	0.00004
	(!A0 * !A2 * !B2 * Y)	-0.00016	-0.00015	-0.00015
	(!A0 * !A2 * !B2 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A2 * !B1 * B2 * Y)	0.00050	0.00051	0.00051
	(!A0 * !A2 * !B1 * B2 * Y)	0.00003	0.00003	0.00004
	(!A0 * !A2 * !B1 * B2 * Y)	-0.00016	-0.00015	-0.00015
	(!A0 * !A2 * !B1 * B2 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	0.00050	0.00051	0.00051
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00016	-0.00015	-0.00015
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00013	-0.00013	-0.00012

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X4H7H	**(A0 * A1 * B0 * B1 * B2 * !Y)**	-0.00034	-0.00029	-0.00022
	(A0 * A1 * B0 * B1 * B2 * !Y)	-0.00008	-0.00008	-0.00007
	(A0 * A1 * B0 * B1 * B2 * !Y)	0.00001	0.00002	0.00002
	(A0 * A1 * B0 * B1 * B2 * !Y)	0.00066	0.00066	0.00067
	(!A1 * B0 * B1 * B2 * !Y)	-0.00048	-0.00047	-0.00047
	(!A1 * B0 * B1 * B2 * !Y)	-0.00003	-0.00003	-0.00002
	(!A1 * B0 * B1 * B2 * !Y)	0.00004	0.00005	0.00005
	(!A1 * B0 * B1 * B2 * !Y)	0.00055	0.00055	0.00056
	(!A1 * !B2 * Y)	-0.00071	-0.00071	-0.00070
	(!A1 * !B2 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B2 * Y)	0.00008	0.00008	0.00008
	(!A1 * !B2 * Y)	0.00013	0.00014	0.00014
	(!A1 * !B1 * B2 * Y)	-0.00071	-0.00071	-0.00070
	(!A1 * !B1 * B2 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B1 * B2 * Y)	0.00008	0.00008	0.00008
	(!A1 * !B1 * B2 * Y)	0.00013	0.00014	0.00014
	(!A1 * !B0 * B1 * B2 * Y)	-0.00071	-0.00071	-0.00070
	(!A1 * !B0 * B1 * B2 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * B1 * B2 * Y)	0.00008	0.00008	0.00008
	(!A1 * !B0 * B1 * B2 * Y)	0.00013	0.00014	0.00014
	(!A0 * A1 * B0 * B1 * B2 * !Y)	-0.00048	-0.00047	-0.00047
	(!A0 * A1 * B0 * B1 * B2 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * B0 * B1 * B2 * !Y)	0.00003	0.00005	0.00006
	(!A0 * A1 * B0 * B1 * B2 * !Y)	0.00052	0.00053	0.00054
	(!A0 * A1 * !B2 * Y)	-0.00071	-0.00071	-0.00070
	(!A0 * A1 * !B2 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * !B2 * Y)	0.00008	0.00008	0.00008
	(!A0 * A1 * !B2 * Y)	0.00012	0.00012	0.00012
	(!A0 * A1 * !B1 * B2 * Y)	-0.00071	-0.00071	-0.00070
	(!A0 * A1 * !B1 * B2 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * !B1 * B2 * Y)	0.00008	0.00008	0.00008
	(!A0 * A1 * !B1 * B2 * Y)	0.00012	0.00012	0.00012
	(!A0 * A1 * !B0 * B1 * B2 * Y)	-0.00071	-0.00071	-0.00070
	(!A0 * A1 * !B0 * B1 * B2 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * !B0 * B1 * B2 * Y)	0.00008	0.00008	0.00008
	(!A0 * A1 * !B0 * B1 * B2 * Y)	0.00012	0.00012	0.00012

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X4H7H	**(A0 * A1 * B0 * B1 * B2 * !Y)**	0.00033	0.00034	0.00034
	(A0 * A1 * B0 * B1 * B2 * !Y)	0.00007	0.00008	0.00008
	(A0 * A1 * B0 * B1 * B2 * !Y)	-0.00002	-0.00001	-0.00001
	(A0 * A1 * B0 * B1 * B2 * !Y)	-0.00066	-0.00066	-0.00065
	(!A1 * B0 * B1 * B2 * !Y)	0.00047	0.00047	0.00048
	(!A1 * B0 * B1 * B2 * !Y)	0.00003	0.00003	0.00003
	(!A1 * B0 * B1 * B2 * !Y)	-0.00005	-0.00005	-0.00004
	(!A1 * B0 * B1 * B2 * !Y)	-0.00056	-0.00053	-0.00049
	(!A1 * !B2 * Y)	0.00071	0.00071	0.00071
	(!A1 * !B2 * Y)	0.00003	0.00003	0.00004
	(!A1 * !B2 * Y)	-0.00008	-0.00008	-0.00008
	(!A1 * !B2 * Y)	-0.00014	-0.00013	-0.00013
	(!A1 * !B1 * B2 * Y)	0.00071	0.00071	0.00071
	(!A1 * !B1 * B2 * Y)	0.00003	0.00003	0.00004
	(!A1 * !B1 * B2 * Y)	-0.00008	-0.00008	-0.00008
	(!A1 * !B1 * B2 * Y)	-0.00014	-0.00013	-0.00013
	(!A1 * !B0 * B1 * B2 * Y)	0.00071	0.00071	0.00071
	(!A1 * !B0 * B1 * B2 * Y)	0.00003	0.00003	0.00004
	(!A1 * !B0 * B1 * B2 * Y)	-0.00008	-0.00008	-0.00008
	(!A1 * !B0 * B1 * B2 * Y)	-0.00014	-0.00013	-0.00013
	(!A0 * A1 * B0 * B1 * B2 * !Y)	0.00047	0.00047	0.00048
	(!A0 * A1 * B0 * B1 * B2 * !Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * B0 * B1 * B2 * !Y)	-0.00006	-0.00005	-0.00003
	(!A0 * A1 * B0 * B1 * B2 * !Y)	-0.00053	-0.00049	-0.00043
	(!A0 * A1 * !B2 * Y)	0.00071	0.00071	0.00071
	(!A0 * A1 * !B2 * Y)	0.00003	0.00003	0.00004
	(!A0 * A1 * !B2 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * A1 * !B2 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * A1 * !B1 * B2 * Y)	0.00071	0.00071	0.00071
	(!A0 * A1 * !B1 * B2 * Y)	0.00003	0.00003	0.00004
	(!A0 * A1 * !B1 * B2 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * A1 * !B1 * B2 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * A1 * !B0 * B1 * B2 * Y)	0.00071	0.00071	0.00071
	(!A0 * A1 * !B0 * B1 * B2 * Y)	0.00003	0.00003	0.00004
	(!A0 * A1 * !B0 * B1 * B2 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * A1 * !B0 * B1 * B2 * Y)	-0.00012	-0.00012	-0.00012

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X4H7H	**(A0 * A1 * A2 * B1 * B2 * !Y)**	-0.00000	-0.00000	0.00000
	(A0 * A1 * A2 * B1 * B2 * !Y)	-0.00010	-0.00010	-0.00010
	(A0 * A1 * A2 * B1 * B2 * !Y)	0.00001	0.00002	0.00002
	(A0 * A1 * A2 * B1 * B2 * !Y)	0.00084	0.00084	0.00085
	(A0 * A1 * A2 * B1 * !B2 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * !B2 * !Y)	-0.00010	-0.00010	-0.00010
	(A0 * A1 * A2 * B1 * !B2 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * A2 * B1 * !B2 * !Y)	0.00072	0.00073	0.00073
	(A0 * A1 * A2 * !B1 * B2 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * B2 * !Y)	-0.00010	-0.00010	-0.00010
	(A0 * A1 * A2 * !B1 * B2 * !Y)	0.00004	0.00005	0.00005
	(A0 * A1 * A2 * !B1 * B2 * !Y)	0.00074	0.00075	0.00075
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	-0.00010	-0.00010	-0.00010
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	0.00074	0.00074	0.00075
	(!A2 * B1 * !B2 * Y)	-0.00053	-0.00053	-0.00053
	(!A2 * B1 * !B2 * Y)	-0.00003	-0.00003	-0.00002
	(!A2 * B1 * !B2 * Y)	0.00004	0.00005	0.00005
	(!A2 * B1 * !B2 * Y)	0.00047	0.00048	0.00048
	(!A2 * !B1 * B2 * Y)	-0.00053	-0.00053	-0.00053
	(!A2 * !B1 * B2 * Y)	-0.00003	-0.00003	-0.00002
	(!A2 * !B1 * B2 * Y)	0.00004	0.00005	0.00005
	(!A2 * !B1 * B2 * Y)	0.00049	0.00050	0.00050
	(!A2 * !B1 * !B2 * Y)	-0.00053	-0.00053	-0.00053
	(!A2 * !B1 * !B2 * Y)	-0.00003	-0.00003	-0.00003
	(!A2 * !B1 * !B2 * Y)	0.00005	0.00005	0.00005
	(!A2 * !B1 * !B2 * Y)	0.00049	0.00050	0.00050
	(!A1 * A2 * B1 * !B2 * Y)	-0.00053	-0.00053	-0.00053
	(!A1 * A2 * B1 * !B2 * Y)	-0.00003	-0.00003	-0.00002
	(!A1 * A2 * B1 * !B2 * Y)	0.00005	0.00005	0.00005
	(!A1 * A2 * B1 * !B2 * Y)	0.00047	0.00048	0.00048
	(!A1 * A2 * !B1 * B2 * Y)	-0.00053	-0.00053	-0.00053
	(!A1 * A2 * !B1 * B2 * Y)	-0.00003	-0.00003	-0.00002
	(!A1 * A2 * !B1 * B2 * Y)	0.00004	0.00005	0.00005
	(!A1 * A2 * !B1 * B2 * Y)	0.00049	0.00050	0.00050
	(!A1 * A2 * !B1 * !B2 * Y)	-0.00053	-0.00053	-0.00053
	(!A1 * A2 * !B1 * !B2 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * A2 * !B1 * !B2 * Y)	0.00005	0.00005	0.00005
	(!A1 * A2 * !B1 * !B2 * Y)	0.00049	0.00050	0.00050
	(!A0 * A1 * A2 * B1 * !B2 * Y)	-0.00053	-0.00053	-0.00053
	(!A0 * A1 * A2 * B1 * !B2 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * A1 * A2 * B1 * !B2 * Y)	0.00005	0.00005	0.00005
	(!A0 * A1 * A2 * B1 * !B2 * Y)	0.00047	0.00048	0.00048
	(!A0 * A1 * A2 * !B1 * B2 * Y)	-0.00053	-0.00053	-0.00053
	(!A0 * A1 * A2 * !B1 * B2 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * A1 * A2 * !B1 * B2 * Y)	0.00004	0.00005	0.00005
	(!A0 * A1 * A2 * !B1 * B2 * Y)	0.00049	0.00050	0.00050
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	-0.00053	-0.00053	-0.00053
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	0.00005	0.00005	0.00005
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	0.00049	0.00050	0.00050

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X4H7H	**(A0 * A1 * A2 * B1 * B2 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * B2 * !Y)	0.00011	0.00011	0.00011
	(A0 * A1 * A2 * B1 * B2 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * A2 * B1 * B2 * !Y)	-0.00084	-0.00083	-0.00083
	(A0 * A1 * A2 * B1 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * !B2 * !Y)	0.00010	0.00010	0.00010
	(A0 * A1 * A2 * B1 * !B2 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * A2 * B1 * !B2 * !Y)	-0.00073	-0.00070	-0.00065
	(A0 * A1 * A2 * !B1 * B2 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * B2 * !Y)	0.00010	0.00010	0.00010
	(A0 * A1 * A2 * !B1 * B2 * !Y)	-0.00005	-0.00005	-0.00004
	(A0 * A1 * A2 * !B1 * B2 * !Y)	-0.00075	-0.00072	-0.00068
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	0.00010	0.00010	0.00010
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	-0.00075	-0.00072	-0.00066
	(!A2 * B1 * !B2 * Y)	0.00053	0.00053	0.00053
	(!A2 * B1 * !B2 * Y)	0.00003	0.00003	0.00003
	(!A2 * B1 * !B2 * Y)	-0.00005	-0.00005	-0.00004
	(!A2 * B1 * !B2 * Y)	-0.00048	-0.00044	-0.00038
	(!A2 * !B1 * B2 * Y)	0.00053	0.00053	0.00053
	(!A2 * !B1 * B2 * Y)	0.00003	0.00003	0.00003
	(!A2 * !B1 * B2 * Y)	-0.00005	-0.00005	-0.00004
	(!A2 * !B1 * B2 * Y)	-0.00050	-0.00047	-0.00042
	(!A2 * !B1 * !B2 * Y)	0.00053	0.00053	0.00053
	(!A2 * !B1 * !B2 * Y)	0.00003	0.00003	0.00003
	(!A2 * !B1 * !B2 * Y)	-0.00005	-0.00005	-0.00005
	(!A2 * !B1 * !B2 * Y)	-0.00050	-0.00047	-0.00042
	(!A1 * A2 * B1 * !B2 * Y)	0.00053	0.00053	0.00053
	(!A1 * A2 * B1 * !B2 * Y)	0.00003	0.00003	0.00003
	(!A1 * A2 * B1 * !B2 * Y)	-0.00005	-0.00005	-0.00005
	(!A1 * A2 * B1 * !B2 * Y)	-0.00048	-0.00044	-0.00038
	(!A1 * A2 * !B1 * B2 * Y)	0.00053	0.00053	0.00053
	(!A1 * A2 * !B1 * B2 * Y)	0.00003	0.00003	0.00003
	(!A1 * A2 * !B1 * B2 * Y)	-0.00005	-0.00005	-0.00004
	(!A1 * A2 * !B1 * B2 * Y)	-0.00050	-0.00047	-0.00042
	(!A1 * A2 * !B1 * !B2 * Y)	0.00053	0.00053	0.00053
	(!A1 * A2 * !B1 * !B2 * Y)	0.00003	0.00003	0.00003
	(!A1 * A2 * !B1 * !B2 * Y)	-0.00005	-0.00005	-0.00005
	(!A1 * A2 * !B1 * !B2 * Y)	-0.00050	-0.00047	-0.00042
	(!A0 * A1 * A2 * B1 * !B2 * Y)	0.00053	0.00053	0.00053
	(!A0 * A1 * A2 * B1 * !B2 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * A2 * B1 * !B2 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * A1 * A2 * B1 * !B2 * Y)	-0.00048	-0.00044	-0.00038
	(!A0 * A1 * A2 * !B1 * B2 * Y)	0.00053	0.00053	0.00053
	(!A0 * A1 * A2 * !B1 * B2 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * A2 * !B1 * B2 * Y)	-0.00005	-0.00005	-0.00004
	(!A0 * A1 * A2 * !B1 * B2 * Y)	-0.00050	-0.00047	-0.00042
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	0.00053	0.00053	0.00053
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	-0.00050	-0.00047	-0.00042

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X4H7H	**(A0 * A1 * A2 * B0 * B2 * !Y)**	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * B2 * !Y)	-0.00010	-0.00010	-0.00009
	(A0 * A1 * A2 * B0 * B2 * !Y)	0.00001	0.00002	0.00003
	(A0 * A1 * A2 * B0 * B2 * !Y)	0.00085	0.00086	0.00086
	(A0 * A1 * A2 * B0 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * !B2 * !Y)	-0.00010	-0.00009	-0.00009
	(A0 * A1 * A2 * B0 * !B2 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * A2 * B0 * !B2 * !Y)	0.00077	0.00078	0.00078
	(A0 * A1 * A2 * !B0 * B2 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * A2 * !B0 * B2 * !Y)	-0.00010	-0.00010	-0.00010
	(A0 * A1 * A2 * !B0 * B2 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * A2 * !B0 * B2 * !Y)	0.00076	0.00076	0.00076
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	-0.00010	-0.00010	-0.00009
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	0.00016	0.00016	0.00016
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	0.00039	0.00039	0.00039
	(!A2 * B0 * !B2 * Y)	-0.00054	-0.00053	-0.00053
	(!A2 * B0 * !B2 * Y)	-0.00003	-0.00003	-0.00002
	(!A2 * B0 * !B2 * Y)	0.00004	0.00004	0.00005
	(!A2 * B0 * !B2 * Y)	0.00051	0.00051	0.00052
	(!A2 * !B0 * B2 * Y)	-0.00056	-0.00056	-0.00056
	(!A2 * !B0 * B2 * Y)	-0.00004	-0.00003	-0.00003
	(!A2 * !B0 * B2 * Y)	0.00013	0.00014	0.00014
	(!A2 * !B0 * B2 * Y)	0.00010	0.00010	0.00010
	(!A2 * !B0 * !B2 * Y)	-0.00056	-0.00056	-0.00056
	(!A2 * !B0 * !B2 * Y)	-0.00003	-0.00003	-0.00002
	(!A2 * !B0 * !B2 * Y)	0.00015	0.00015	0.00016
	(!A2 * !B0 * !B2 * Y)	0.00009	0.00010	0.00010
	(!A1 * A2 * B0 * !B2 * Y)	-0.00054	-0.00053	-0.00053
	(!A1 * A2 * B0 * !B2 * Y)	-0.00003	-0.00003	-0.00002
	(!A1 * A2 * B0 * !B2 * Y)	0.00004	0.00004	0.00005
	(!A1 * A2 * B0 * !B2 * Y)	0.00051	0.00051	0.00052
	(!A1 * A2 * !B0 * B2 * Y)	-0.00056	-0.00056	-0.00056
	(!A1 * A2 * !B0 * B2 * Y)	-0.00004	-0.00003	-0.00003
	(!A1 * A2 * !B0 * B2 * Y)	0.00013	0.00014	0.00014
	(!A1 * A2 * !B0 * B2 * Y)	0.00010	0.00010	0.00010
	(!A1 * A2 * !B0 * !B2 * Y)	-0.00056	-0.00056	-0.00056
	(!A1 * A2 * !B0 * !B2 * Y)	-0.00003	-0.00003	-0.00002
	(!A1 * A2 * !B0 * !B2 * Y)	0.00015	0.00015	0.00016
	(!A1 * A2 * !B0 * !B2 * Y)	0.00009	0.00010	0.00010
	(!A0 * A1 * A2 * B0 * !B2 * Y)	-0.00054	-0.00053	-0.00053
	(!A0 * A1 * A2 * B0 * !B2 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * A1 * A2 * B0 * !B2 * Y)	0.00004	0.00004	0.00005
	(!A0 * A1 * A2 * B0 * !B2 * Y)	0.00051	0.00051	0.00051
	(!A0 * A1 * A2 * !B0 * B2 * Y)	-0.00056	-0.00056	-0.00056
	(!A0 * A1 * A2 * !B0 * B2 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * A2 * !B0 * B2 * Y)	0.00013	0.00014	0.00014
	(!A0 * A1 * A2 * !B0 * B2 * Y)	0.00010	0.00010	0.00010
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	-0.00056	-0.00056	-0.00056
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	0.00015	0.00015	0.00016
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	0.00009	0.00010	0.00010

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X4H7H	**(A0 * A1 * A2 * B0 * B2 * !Y)**	-0.00000	-0.00000	0.00000
	(A0 * A1 * A2 * B0 * B2 * !Y)	0.00010	0.00010	0.00010
	(A0 * A1 * A2 * B0 * B2 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * A2 * B0 * B2 * !Y)	-0.00086	-0.00085	-0.00083
	(A0 * A1 * A2 * B0 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * !B2 * !Y)	0.00009	0.00009	0.00010
	(A0 * A1 * A2 * B0 * !B2 * !Y)	-0.00005	-0.00005	-0.00004
	(A0 * A1 * A2 * B0 * !B2 * !Y)	-0.00078	-0.00075	-0.00070
	(A0 * A1 * A2 * !B0 * B2 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * B2 * !Y)	0.00010	0.00010	0.00010
	(A0 * A1 * A2 * !B0 * B2 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * A2 * !B0 * B2 * !Y)	-0.00076	-0.00073	-0.00069
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	0.00009	0.00010	0.00010
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	-0.00016	-0.00016	-0.00016
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	-0.00039	-0.00039	-0.00039
	(!A2 * B0 * !B2 * Y)	0.00054	0.00054	0.00057
	(!A2 * B0 * !B2 * Y)	0.00003	0.00003	0.00004
	(!A2 * B0 * !B2 * Y)	-0.00005	-0.00004	-0.00004
	(!A2 * B0 * !B2 * Y)	-0.00051	-0.00048	-0.00043
	(!A2 * !B0 * B2 * Y)	0.00056	0.00056	0.00056
	(!A2 * !B0 * B2 * Y)	0.00003	0.00003	0.00004
	(!A2 * !B0 * B2 * Y)	-0.00013	-0.00013	-0.00013
	(!A2 * !B0 * B2 * Y)	-0.00010	-0.00010	-0.00010
	(!A2 * !B0 * !B2 * Y)	0.00056	0.00057	0.00057
	(!A2 * !B0 * !B2 * Y)	0.00003	0.00003	0.00004
	(!A2 * !B0 * !B2 * Y)	-0.00016	-0.00015	-0.00015
	(!A2 * !B0 * !B2 * Y)	-0.00010	-0.00010	-0.00009
	(!A1 * A2 * B0 * !B2 * Y)	0.00054	0.00054	0.00057
	(!A1 * A2 * B0 * !B2 * Y)	0.00003	0.00003	0.00004
	(!A1 * A2 * B0 * !B2 * Y)	-0.00005	-0.00004	-0.00004
	(!A1 * A2 * B0 * !B2 * Y)	-0.00051	-0.00048	-0.00043
	(!A1 * A2 * !B0 * B2 * Y)	0.00056	0.00056	0.00056
	(!A1 * A2 * !B0 * B2 * Y)	0.00003	0.00003	0.00004
	(!A1 * A2 * !B0 * B2 * Y)	-0.00013	-0.00013	-0.00013
	(!A1 * A2 * !B0 * B2 * Y)	-0.00010	-0.00010	-0.00010
	(!A1 * A2 * !B0 * !B2 * Y)	0.00056	0.00057	0.00057
	(!A1 * A2 * !B0 * !B2 * Y)	0.00003	0.00003	0.00004
	(!A1 * A2 * !B0 * !B2 * Y)	-0.00016	-0.00015	-0.00015
	(!A1 * A2 * !B0 * !B2 * Y)	-0.00010	-0.00010	-0.00009
	(!A0 * A1 * A2 * B0 * !B2 * Y)	0.00054	0.00054	0.00057
	(!A0 * A1 * A2 * B0 * !B2 * Y)	0.00003	0.00003	0.00004
	(!A0 * A1 * A2 * B0 * !B2 * Y)	-0.00005	-0.00004	-0.00004
	(!A0 * A1 * A2 * B0 * !B2 * Y)	-0.00051	-0.00048	-0.00043
	(!A0 * A1 * A2 * !B0 * B2 * Y)	0.00056	0.00056	0.00056
	(!A0 * A1 * A2 * !B0 * B2 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * A2 * !B0 * B2 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * A1 * A2 * !B0 * B2 * Y)	-0.00010	-0.00010	-0.00010
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	0.00056	0.00057	0.00057
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	0.00003	0.00003	0.00004
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	-0.00016	-0.00015	-0.00015
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	-0.00010	-0.00010	-0.00009

Passive power(pJ) for B2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X4H7H	**(A0 * A1 * A2 * B0 * B1 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * B1 * !Y)	-0.00011	-0.00011	-0.00010
	(A0 * A1 * A2 * B0 * B1 * !Y)	0.00001	0.00002	0.00002
	(A0 * A1 * A2 * B0 * B1 * !Y)	0.00084	0.00085	0.00086
	(A0 * A1 * A2 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !Y)	-0.00010	-0.00010	-0.00010
	(A0 * A1 * A2 * !B1 * !Y)	0.00004	0.00005	0.00005
	(A0 * A1 * A2 * !B1 * !Y)	0.00076	0.00077	0.00077
	(A0 * A1 * A2 * !B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * B1 * !Y)	-0.00010	-0.00010	-0.00010
	(A0 * A1 * A2 * !B0 * B1 * !Y)	0.00003	0.00005	0.00005
	(A0 * A1 * A2 * !B0 * B1 * !Y)	0.00074	0.00074	0.00074
	(!A2 * !B1 * Y)	-0.00078	-0.00078	-0.00077
	(!A2 * !B1 * Y)	-0.00003	-0.00003	-0.00002
	(!A2 * !B1 * Y)	0.00007	0.00008	0.00008
	(!A2 * !B1 * Y)	0.00009	0.00010	0.00010
	(!A2 * !B0 * B1 * Y)	-0.00079	-0.00078	-0.00077
	(!A2 * !B0 * B1 * Y)	-0.00003	-0.00003	-0.00001
	(!A2 * !B0 * B1 * Y)	0.00007	0.00008	0.00008
	(!A2 * !B0 * B1 * Y)	0.00008	0.00008	0.00008
	(!A1 * A2 * !B1 * Y)	-0.00078	-0.00078	-0.00077
	(!A1 * A2 * !B1 * Y)	-0.00003	-0.00003	-0.00002
	(!A1 * A2 * !B1 * Y)	0.00008	0.00008	0.00008
	(!A1 * A2 * !B1 * Y)	0.00009	0.00009	0.00010
	(!A1 * A2 * !B0 * B1 * Y)	-0.00078	-0.00078	-0.00077
	(!A1 * A2 * !B0 * B1 * Y)	-0.00003	-0.00003	-0.00001
	(!A1 * A2 * !B0 * B1 * Y)	0.00007	0.00008	0.00008
	(!A1 * A2 * !B0 * B1 * Y)	0.00007	0.00008	0.00008
	(!A0 * A1 * A2 * !B1 * Y)	-0.00078	-0.00078	-0.00077
	(!A0 * A1 * A2 * !B1 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * A1 * A2 * !B1 * Y)	0.00008	0.00008	0.00008
	(!A0 * A1 * A2 * !B1 * Y)	0.00009	0.00009	0.00009
	(!A0 * A1 * A2 * !B0 * B1 * Y)	-0.00078	-0.00078	-0.00077
	(!A0 * A1 * A2 * !B0 * B1 * Y)	-0.00003	-0.00003	-0.00001
	(!A0 * A1 * A2 * !B0 * B1 * Y)	0.00007	0.00008	0.00008
	(!A0 * A1 * A2 * !B0 * B1 * Y)	0.00007	0.00008	0.00008

Passive power(pJ) for B2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

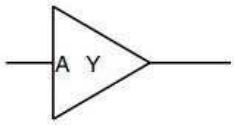
AOI33X4H7H	**(A0 * A1 * A2 * B0 * B1 * !Y)**	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * B1 * !Y)	0.00011	0.00011	0.00012
	(A0 * A1 * A2 * B0 * B1 * !Y)	-0.00002	-0.00001	-0.00001
	(A0 * A1 * A2 * B0 * B1 * !Y)	-0.00086	-0.00085	-0.00084
	(A0 * A1 * A2 * !B1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !Y)	0.00010	0.00010	0.00010
	(A0 * A1 * A2 * !B1 * !Y)	-0.00005	-0.00005	-0.00004
	(A0 * A1 * A2 * !B1 * !Y)	-0.00077	-0.00074	-0.00069
	(A0 * A1 * A2 * !B0 * B1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * A2 * !B0 * B1 * !Y)	0.00010	0.00010	0.00010
	(A0 * A1 * A2 * !B0 * B1 * !Y)	-0.00005	-0.00005	-0.00003
	(A0 * A1 * A2 * !B0 * B1 * !Y)	-0.00074	-0.00069	-0.00062
	(!A2 * !B1 * Y)	0.00077	0.00078	0.00078
	(!A2 * !B1 * Y)	0.00003	0.00003	0.00003
	(!A2 * !B1 * Y)	-0.00008	-0.00008	-0.00007
	(!A2 * !B1 * Y)	-0.00010	-0.00009	-0.00009
	(!A2 * !B0 * B1 * Y)	0.00078	0.00078	0.00079
	(!A2 * !B0 * B1 * Y)	0.00003	0.00003	0.00003
	(!A2 * !B0 * B1 * Y)	-0.00008	-0.00008	-0.00007
	(!A2 * !B0 * B1 * Y)	-0.00008	-0.00008	-0.00008
	(!A1 * A2 * !B1 * Y)	0.00077	0.00078	0.00078
	(!A1 * A2 * !B1 * Y)	0.00003	0.00003	0.00003
	(!A1 * A2 * !B1 * Y)	-0.00008	-0.00008	-0.00007
	(!A1 * A2 * !B1 * Y)	-0.00010	-0.00009	-0.00009
	(!A1 * A2 * !B0 * B1 * Y)	0.00078	0.00078	0.00078
	(!A1 * A2 * !B0 * B1 * Y)	0.00003	0.00003	0.00003
	(!A1 * A2 * !B0 * B1 * Y)	-0.00008	-0.00008	-0.00007
	(!A1 * A2 * !B0 * B1 * Y)	-0.00008	-0.00008	-0.00007
	(!A0 * A1 * A2 * !B1 * Y)	0.00077	0.00078	0.00078
	(!A0 * A1 * A2 * !B1 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * A2 * !B1 * Y)	-0.00008	-0.00008	-0.00007
	(!A0 * A1 * A2 * !B1 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * A1 * A2 * !B0 * B1 * Y)	0.00078	0.00078	0.00078
	(!A0 * A1 * A2 * !B0 * B1 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * A2 * !B0 * B1 * Y)	-0.00008	-0.00008	-0.00007
	(!A0 * A1 * A2 * !B0 * B1 * Y)	-0.00008	-0.00008	-0.00007

BUFX0P5H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The BUF cell provides the logical buffer of a single input (A). The output (Y) is represented by the logic equation:



Truth Table

INPUT	OUTPUT
A	Y
0	0
1	1

Footprint

Cell Name	Area
BUFX0P5H7H	1.12000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
BUFX0P5H7H	0.00099	0.03034

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
BUFX0P5H7H	0.00000	0.01160	0.01160

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
BUFX0P5H7H	A->Y (RR)	0.04626	0.20583	0.59221

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
BUFX0P5H7H	A->Y (FF)	0.05125	0.18090	0.48889

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
BUFX0P5H7H	A	0.00038	0.00044	0.00050
	A	-0.00000	-0.00000	0.00000
	A	-0.00000	0.00000	0.00000
	A	0.00107	0.00113	0.00119

Internal switching power(pJ) to Y falling :

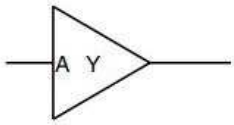
Cell Name	Input	Power(pJ)		
		min	avg	max
BUFX0P5H7H	A	0.00104	0.00110	0.00115
	A	-0.00000	0.00000	0.00000
	A	-0.00000	-0.00000	0.00000
	A	0.00035	0.00040	0.00045

BUFX0P7H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The BUF cell provides the logical buffer of a single input (A). The output (Y) is represented by the logic equation:



Truth Table

INPUT	OUTPUT
A	Y
0	0
1	1

Footprint

Cell Name	Area
BUFX0P7H7H	1.12000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
BUFX0P7H7H	0.00101	0.03455

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
BUFX0P7H7H	0.00000	0.01247	0.01258

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
BUFX0P7H7H	**A->Y (RR)**	0.04516	0.20607	0.59578

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
BUFX0P7H7H	**A->Y (FF)**	0.05129	0.18281	0.49550

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
BUFX0P7H7H	A	0.00038	0.00045	0.00051
	A	-0.00000	-0.00000	-0.00000
	A	0.00000	0.00000	0.00000
	A	0.00109	0.00116	0.00122

Internal switching power(pJ) to Y falling :

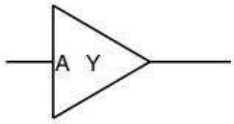
Cell Name	Input	Power(pJ)		
		min	avg	max
BUFX0P7H7H	A	0.00108	0.00114	0.00119
	A	0.00000	0.00000	0.00000
	A	-0.00000	-0.00000	0.00000
	A	0.00038	0.00043	0.00049

BUFX10H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The BUF cell provides the logical buffer of a single input (A). The output (Y) is represented by the logic equation:



Truth Table

INPUT	OUTPUT
A	Y
0	0
1	1

Footprint

Cell Name	Area
BUFX10H7H	3.64000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
BUFX10H7H	0.00265	0.27447

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
BUFX10H7H	0.00000	0.09611	0.11815

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
BUFX10H7H	**A->Y (RR)**	0.04167	0.21371	0.62762

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
BUFX10H7H	**A->Y (FF)**	0.05339	0.19943	0.54436

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
BUFX10H7H	A	0.00312	0.00351	0.00387
	A	-0.00014	-0.00013	-0.00011
	A	0.00009	0.00012	0.00013
	A	0.00476	0.00516	0.00550

Internal switching power(pJ) to Y falling :

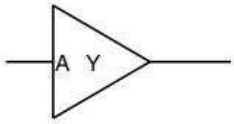
Cell Name	Input	Power(pJ)		
		min	avg	max
BUFX10H7H	A	0.00490	0.00528	0.00560
	A	0.00013	0.00013	0.00014
	A	-0.00013	-0.00012	-0.00009
	A	0.00325	0.00362	0.00396

BUFX12H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The BUF cell provides the logical buffer of a single input (A). The output (Y) is represented by the logic equation:



Truth Table

INPUT	OUTPUT
A	Y
0	0
1	1

Footprint

Cell Name	Area
BUFX12H7H	3.92000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
BUFX12H7H	0.00318	0.32893

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
BUFX12H7H	0.00000	0.13053	0.15022

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
BUFX12H7H	**A->Y (RR)**	0.04186	0.21479	0.63103

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
BUFX12H7H	**A->Y (FF)**	0.05171	0.19633	0.53728

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
BUFX12H7H	A	0.00378	0.00425	0.00468
	A	-0.00016	-0.00016	-0.00015
	A	0.00014	0.00014	0.00018
	A	0.00575	0.00623	0.00665

Internal switching power(pJ) to Y falling :

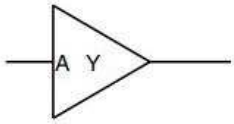
Cell Name	Input	Power(pJ)		
		min	avg	max
BUFX12H7H	A	0.00588	0.00634	0.00672
	A	0.00015	0.00016	0.00016
	A	-0.00015	-0.00014	-0.00014
	A	0.00391	0.00435	0.00475

BUFX16H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The BUF cell provides the logical buffer of a single input (A). The output (Y) is represented by the logic equation:



Truth Table

INPUT	OUTPUT
A	Y
0	0
1	1

Footprint

Cell Name	Area
BUFX16H7H	5.04000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
BUFX16H7H	0.00346	0.43877

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
BUFX16H7H	0.00000	0.18355	0.21662

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
BUFX16H7H	**A->Y (RR)**	0.04199	0.21691	0.63789

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
BUFX16H7H	**A->Y (FF)**	0.05154	0.19972	0.54930

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
BUFX16H7H	A	0.00477	0.00534	0.00587
	A	-0.00023	-0.00022	-0.00021
	A	0.00020	0.00020	0.00021
	A	0.00683	0.00741	0.00791

Internal switching power(pJ) to Y falling :

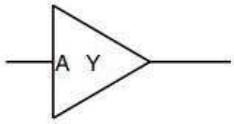
Cell Name	Input	Power(pJ)		
		min	avg	max
BUFX16H7H	A	0.00706	0.00764	0.00810
	A	0.00021	0.00022	0.00023
	A	-0.00021	-0.00020	-0.00020
	A	0.00500	0.00555	0.00605

BUFX1H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The BUF cell provides the logical buffer of a single input (A). The output (Y) is represented by the logic equation:



Truth Table

INPUT	OUTPUT
A	Y
0	0
1	1

Footprint

Cell Name	Area
BUFX1H7H	1.12000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
BUFX1H7H	0.00100	0.04131

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
BUFX1H7H	0.00000	0.01453	0.01697

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
BUFX1H7H	**A->Y (RR)**	0.04388	0.20601	0.59841

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
BUFX1H7H	**A->Y (FF)**	0.05132	0.18697	0.50998

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
BUFX1H7H	A	0.00045	0.00052	0.00058
	A	-0.00001	-0.00001	-0.00001
	A	0.00001	0.00001	0.00001
	A	0.00114	0.00121	0.00127

Internal switching power(pJ) to Y falling :

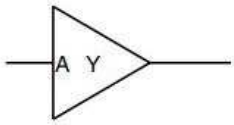
Cell Name	Input	Power(pJ)		
		min	avg	max
BUFX1H7H	A	0.00110	0.00117	0.00122
	A	0.00001	0.00001	0.00001
	A	-0.00001	-0.00001	-0.00001
	A	0.00041	0.00047	0.00053

BUFX1P4H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The BUF cell provides the logical buffer of a single input (A). The output (Y) is represented by the logic equation:



Truth Table

INPUT	OUTPUT
A	Y
0	0
1	1

Footprint

Cell Name	Area
BUFX1P4H7H	1.12000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
BUFX1P4H7H	0.00104	0.04708

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
BUFX1P4H7H	0.00000	0.01731	0.02239

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
BUFX1P4H7H	A->Y (RR)	0.04535	0.21025	0.60950

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
BUFX1P4H7H	A->Y (FF)	0.05451	0.19389	0.52644

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
BUFX1P4H7H	A	0.00048	0.00056	0.00064
	A	-0.00002	-0.00002	-0.00001
	A	0.00001	0.00001	0.00001
	A	0.00119	0.00128	0.00135

Internal switching power(pJ) to Y falling :

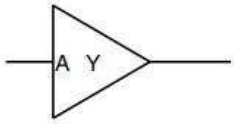
Cell Name	Input	Power(pJ)		
		min	avg	max
BUFX1P4H7H	A	0.00122	0.00129	0.00137
	A	0.00001	0.00002	0.00002
	A	-0.00001	-0.00001	-0.00001
	A	0.00050	0.00057	0.00065

BUFX20H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The BUF cell provides the logical buffer of a single input (A). The output (Y) is represented by the logic equation:



Truth Table

INPUT	OUTPUT
A	Y
0	0
1	1

Footprint

Cell Name	Area
BUFX20H7H	6.16000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
BUFX20H7H	0.00455	0.54862

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
BUFX20H7H	0.00000	0.23896	0.27994

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
BUFX20H7H	**A->Y (RR)**	0.04156	0.21604	0.63570

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
BUFX20H7H	**A->Y (FF)**	0.05014	0.19249	0.52644

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
BUFX20H7H	A	0.00618	0.00692	0.00762
	A	-0.00027	-0.00026	-0.00025
	A	0.00027	0.00027	0.00029
	A	0.00891	0.00966	0.01032

Internal switching power(pJ) to Y falling :

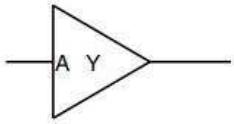
Cell Name	Input	Power(pJ)		
		min	avg	max
BUFX20H7H	A	0.00925	0.00999	0.01058
	A	0.00025	0.00027	0.00028
	A	-0.00028	-0.00027	-0.00026
	A	0.00653	0.00723	0.00787

BUFX2H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The BUF cell provides the logical buffer of a single input (A). The output (Y) is represented by the logic equation:



Truth Table

INPUT	OUTPUT
A	Y
0	0
1	1

Footprint

Cell Name	Area
BUFX2H7H	1.40000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
BUFX2H7H	0.00104	0.05463

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
BUFX2H7H	0.00000	0.02249	0.03188

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
BUFX2H7H	**A->Y (RR)**	0.04629	0.21259	0.61481

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
BUFX2H7H	**A->Y (FF)**	0.05605	0.19605	0.52987

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
BUFX2H7H	A	0.00061	0.00070	0.00079
	A	-0.00003	-0.00002	-0.00002
	A	0.00002	0.00002	0.00002
	A	0.00131	0.00140	0.00149

Internal switching power(pJ) to Y falling :

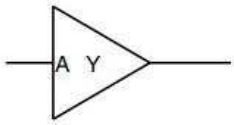
Cell Name	Input	Power(pJ)		
		min	avg	max
BUFX2H7H	A	0.00128	0.00136	0.00144
	A	0.00002	0.00002	0.00003
	A	-0.00002	-0.00002	-0.00002
	A	0.00058	0.00066	0.00074

BUFX2P5H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The BUF cell provides the logical buffer of a single input (A). The output (Y) is represented by the logic equation:



Truth Table

INPUT	OUTPUT
A	Y
0	0
1	1

Footprint

Cell Name	Area
BUFX2P5H7H	1.40000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
BUFX2P5H7H	0.00102	0.07372

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
BUFX2P5H7H	0.00000	0.02046	0.02069

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
BUFX2P5H7H	A->Y (RR)	0.05216	0.22467	0.64216

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
BUFX2P5H7H	A->Y (FF)	0.06484	0.20997	0.55588

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
BUFX2P5H7H	A	0.00089	0.00101	0.00113
	A	-0.00003	-0.00003	-0.00003
	A	0.00003	0.00003	0.00003
	A	0.00156	0.00168	0.00179

Internal switching power(pJ) to Y falling :

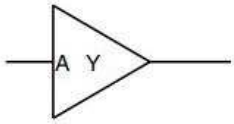
Cell Name	Input	Power(pJ)		
		min	avg	max
BUFX2P5H7H	A	0.00163	0.00175	0.00185
	A	0.00003	0.00003	0.00003
	A	-0.00003	-0.00003	-0.00003
	A	0.00096	0.00108	0.00119

BUFX3H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The BUF cell provides the logical buffer of a single input (A). The output (Y) is represented by the logic equation:



Truth Table

INPUT	OUTPUT
A	Y
0	0
1	1

Footprint

Cell Name	Area
BUFX3H7H	1.40000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
BUFX3H7H	0.00104	0.08476

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
BUFX3H7H	0.00000	0.02834	0.03512

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
BUFX3H7H	**A->Y (RR)**	0.05408	0.22847	0.65026

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
BUFX3H7H	**A->Y (FF)**	0.06798	0.21590	0.56838

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
BUFX3H7H	A	0.00103	0.00117	0.00129
	A	-0.00005	-0.00004	-0.00004
	A	0.00004	0.00004	0.00004
	A	0.00170	0.00183	0.00195

Internal switching power(pJ) to Y falling :

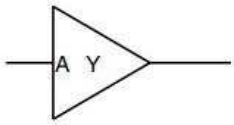
Cell Name	Input	Power(pJ)		
		min	avg	max
BUFX3H7H	A	0.00175	0.00187	0.00199
	A	0.00004	0.00004	0.00005
	A	-0.00004	-0.00004	-0.00004
	A	0.00109	0.00121	0.00133

BUFX3P5H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The BUF cell provides the logical buffer of a single input (A). The output (Y) is represented by the logic equation:



Truth Table

INPUT	OUTPUT
A	Y
0	0
1	1

Footprint

Cell Name	Area
BUFX3P5H7H	1.68000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
BUFX3P5H7H	0.00113	0.09803

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
BUFX3P5H7H	0.00000	0.03493	0.04229

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
BUFX3P5H7H	A->Y (RR)	0.04592	0.21811	0.63408

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
BUFX3P5H7H	A->Y (FF)	0.05536	0.20014	0.54357

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
BUFX3P5H7H	A	0.00106	0.00120	0.00133
	A	-0.00005	-0.00005	-0.00004
	A	0.00004	0.00004	0.00004
	A	0.00178	0.00192	0.00205

Internal switching power(pJ) to Y falling :

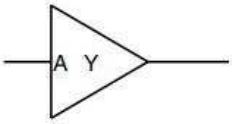
Cell Name	Input	Power(pJ)		
		min	avg	max
BUFX3P5H7H	A	0.00184	0.00197	0.00209
	A	0.00004	0.00005	0.00005
	A	-0.00004	-0.00004	-0.00004
	A	0.00111	0.00124	0.00137

BUFX4H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The BUF cell provides the logical buffer of a single input (A). The output (Y) is represented by the logic equation:



Truth Table

INPUT	OUTPUT
A	Y
0	0
1	1

Footprint

Cell Name	Area
BUFX4H7H	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
BUFX4H7H	0.00122	0.10913

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
BUFX4H7H	0.00000	0.04529	0.05536

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
BUFX4H7H	**A->Y (RR)**	0.04374	0.21542	0.63033

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
BUFX4H7H	**A->Y (FF)**	0.05334	0.19775	0.54016

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
BUFX4H7H	A	0.00116	0.00131	0.00145
	A	-0.00005	-0.00005	-0.00005
	A	0.00005	0.00005	0.00005
	A	0.00193	0.00208	0.00221

Internal switching power(pJ) to Y falling :

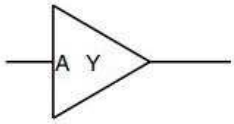
Cell Name	Input	Power(pJ)		
		min	avg	max
BUFX4H7H	A	0.00197	0.00211	0.00224
	A	0.00005	0.00005	0.00006
	A	-0.00005	-0.00005	-0.00005
	A	0.00120	0.00134	0.00147

BUFX5H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The BUF cell provides the logical buffer of a single input (A). The output (Y) is represented by the logic equation:



Truth Table

INPUT	OUTPUT
A	Y
0	0
1	1

Footprint

Cell Name	Area
BUFX5H7H	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
BUFX5H7H	0.00123	0.13965

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
BUFX5H7H	0.00000	0.05222	0.05645

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
BUFX5H7H	**A->Y (RR)**	0.04688	0.22260	0.64738

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
BUFX5H7H	**A->Y (FF)**	0.05750	0.20542	0.55607

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
BUFX5H7H	A	0.00155	0.00173	0.00191
	A	-0.00007	-0.00007	-0.00007
	A	0.00006	0.00006	0.00007
	A	0.00229	0.00248	0.00265

Internal switching power(pJ) to Y falling :

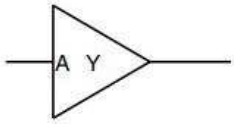
Cell Name	Input	Power(pJ)		
		min	avg	max
BUFX5H7H	A	0.00243	0.00261	0.00277
	A	0.00007	0.00007	0.00007
	A	-0.00007	-0.00006	-0.00006
	A	0.00168	0.00186	0.00203

BUFX6H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The BUF cell provides the logical buffer of a single input (A). The output (Y) is represented by the logic equation:



Truth Table

INPUT	OUTPUT
A	Y
0	0
1	1

Footprint

Cell Name	Area
BUFX6H7H	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
BUFX6H7H	0.00164	0.16395

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
BUFX6H7H	0.00000	0.04896	0.06260

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
BUFX6H7H	**A->Y (RR)**	0.04764	0.22078	0.63726

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
BUFX6H7H	**A->Y (FF)**	0.06428	0.21355	0.56831

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
BUFX6H7H	A	0.00195	0.00219	0.00242
	A	-0.00009	-0.00009	-0.00008
	A	0.00008	0.00008	0.00008
	A	0.00296	0.00320	0.00342

Internal switching power(pJ) to Y falling :

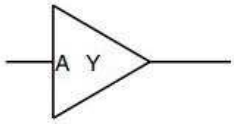
Cell Name	Input	Power(pJ)		
		min	avg	max
BUFX6H7H	A	0.00307	0.00330	0.00351
	A	0.00008	0.00009	0.00009
	A	-0.00008	-0.00008	-0.00008
	A	0.00206	0.00228	0.00250

BUFX7H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The BUF cell provides the logical buffer of a single input (A). The output (Y) is represented by the logic equation:



Truth Table

INPUT	OUTPUT
A	Y
0	0
1	1

Footprint

Cell Name	Area
BUFX7H7H	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
BUFX7H7H	0.00187	0.19687

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
BUFX7H7H	0.00000	0.07139	0.08994

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
BUFX7H7H	**A->Y (RR)**	0.04150	0.21343	0.62799

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
BUFX7H7H	**A->Y (FF)**	0.05145	0.19676	0.53983

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
BUFX7H7H	A	0.00201	0.00226	0.00249
	A	-0.00010	-0.00010	-0.00009
	A	0.00009	0.00009	0.00009
	A	0.00317	0.00342	0.00364

Internal switching power(pJ) to Y falling :

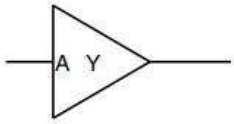
Cell Name	Input	Power(pJ)		
		min	avg	max
BUFX7H7H	A	0.00327	0.00352	0.00372
	A	0.00009	0.00010	0.00010
	A	-0.00009	-0.00009	-0.00008
	A	0.00211	0.00235	0.00257

BUFX8H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The BUF cell provides the logical buffer of a single input (A). The output (Y) is represented by the logic equation:



Truth Table

INPUT	OUTPUT
A	Y
0	0
1	1

Footprint

Cell Name	Area
BUFX8H7H	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
BUFX8H7H	0.00207	0.21851

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
BUFX8H7H	0.00000	0.08238	0.09323

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
BUFX8H7H	**A->Y (RR)**	0.04271	0.21534	0.63096

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
BUFX8H7H	**A->Y (FF)**	0.05214	0.19499	0.53157

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
BUFX8H7H	A	0.00261	0.00292	0.00322
	A	-0.00011	-0.00011	-0.00009
	A	0.00009	0.00010	0.00010
	A	0.00389	0.00421	0.00449

Internal switching power(pJ) to Y falling :

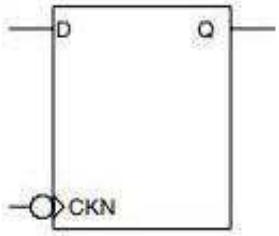
Cell Name	Input	Power(pJ)		
		min	avg	max
BUFX8H7H	A	0.00396	0.00426	0.00451
	A	0.00010	0.00011	0.00013
	A	-0.00010	-0.00010	-0.00009
	A	0.00268	0.00297	0.00324

DFFNQX1H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The DFFNQ cell is a negative edge-triggered, static D-type flip-flop.



Truth Table

INPUT		OUTPUT
CKN	D	Q
F	0	0
F	1	1
x	x	IQ

Footprint

Cell Name	Area
DFFNQX1H7H	6.44000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	CKN	D	Q
DFFNQX1H7H	0.00097	0.00074	0.04141

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DFFNQX1H7H	0.00000	0.05088	0.05088

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFNQX1H7H	CKN->Q (FR)	0.15866	0.35185	0.81808

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFNQX1H7H	CKN->Q (FF)	0.22698	0.39440	0.76768

Constraint Information

Min Pulse Width (ns) for CKN:

Cell Name	High	Low
DFFNQX1H7H	0.9851	0.9851

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFNQX1H7H	**hold**	**CKN (F)**	-0.14449	0.03742	0.22893
	setup	**CKN (F)**	-0.19620	0.02029	0.22049

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFNQX1H7H	**hold**	**CKN (F)**	-0.21038	-0.05809	0.05991
	setup	**CKN (F)**	-0.04817	0.07812	0.24647

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFNQX1H7H	CKN	0.00414	0.00424	0.00434
	CKN	0.00004	0.00004	0.00005
	CKN	-0.00004	0.00001	0.00028
	CKN	0.00331	0.00358	0.00373

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFNQX1H7H	CKN	0.00410	0.00420	0.00429
	CKN	-0.00005	-0.00004	-0.00003
	CKN	0.00002	0.00004	0.00005
	CKN	0.00336	0.00345	0.00354

Passive power(pJ) for CKN rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFNQX1H7H	0.00297	0.00302	0.00307
	0.00004	0.00005	0.00006
	-0.00000	-0.00000	0.00000
	0.00384	0.00389	0.00394

Passive power(pJ) for CKN falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFNQX1H7H	0.00253	0.00257	0.00263
	-0.00000	0.00000	0.00000
	0.00000	0.00000	0.00000
	0.00183	0.00187	0.00192

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFNQX1H7H	0.00114	0.00116	0.00117
	0.00003	0.00003	0.00003
	-0.00004	-0.00003	-0.00003
	0.00170	0.00172	0.00175

Passive power(pJ) for D falling :

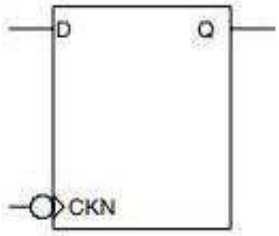
Cell Name	Power(pJ)		
	min	avg	max
DFFNQX1H7H	0.00166	0.00168	0.00170
	-0.00003	-0.00003	-0.00003
	0.00003	0.00003	0.00004
	0.00109	0.00111	0.00113

DFFNQX2H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The DFFNQ cell is a negative edge-triggered, static D-type flip-flop.



Truth Table

INPUT		OUTPUT
CKN	D	Q
F	0	0
F	1	1
x	x	IQ

Footprint

Cell Name	Area
DFFNQX2H7H	6.44000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	CKN	D	Q
DFFNQX2H7H	0.00096	0.00076	0.05471

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DFFNQX2H7H	0.00000	0.06008	0.06697

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFNQX2H7H	**CKN->Q (FR)**	0.15931	0.35464	0.82245

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFNQX2H7H	**CKN->Q (FF)**	0.22968	0.40038	0.77513

Constraint Information

Min Pulse Width (ns) for CKN:

Cell Name	High	Low
DFFNQX2H7H	0.9851	0.9851

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFNQX2H7H	**hold**	**CKN (F)**	-0.14202	0.03770	0.23014
	setup	**CKN (F)**	-0.19741	0.01767	0.21748

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFNQX2H7H	**hold**	**CKN (F)**	-0.20924	-0.05792	0.06101
	setup	**CKN (F)**	-0.04805	0.07720	0.24377

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFNQX2H7H	CKN	0.00420	0.00431	0.00442
	CKN	0.00002	0.00002	0.00004
	CKN	-0.00003	-0.00000	0.00024
	CKN	0.00340	0.00364	0.00377

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFNQX2H7H	CKN	0.00419	0.00428	0.00439
	CKN	-0.00002	-0.00002	-0.00000
	CKN	0.00001	0.00002	0.00004
	CKN	0.00347	0.00357	0.00367

Passive power(pJ) for CKN rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFNQX2H7H	0.00297	0.00302	0.00307
	0.00005	0.00005	0.00006
	-0.00000	-0.00000	0.00000
	0.00384	0.00390	0.00395

Passive power(pJ) for CKN falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFNQX2H7H	0.00250	0.00255	0.00260
	-0.00001	-0.00000	0.00000
	0.00000	0.00000	0.00000
	0.00180	0.00185	0.00189

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFNQX2H7H	0.00115	0.00117	0.00118
	0.00003	0.00003	0.00003
	-0.00004	-0.00003	-0.00002
	0.00173	0.00175	0.00178

Passive power(pJ) for D falling :

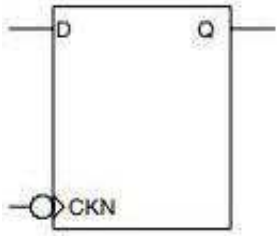
Cell Name	Power(pJ)		
	min	avg	max
DFFNQX2H7H	0.00168	0.00171	0.00173
	-0.00003	-0.00003	-0.00003
	0.00002	0.00003	0.00004
	0.00110	0.00112	0.00116

DFFNQX3H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The DFFNQ cell is a negative edge-triggered, static D-type flip-flop.



Truth Table

INPUT		OUTPUT
CKN	D	Q
F	0	0
F	1	1
x	x	IQ

Footprint

Cell Name	Area
DFFNQX3H7H	6.72000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	CKN	D	Q
DFFNQX3H7H	0.00096	0.00077	0.08541

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DFFNQX3H7H	0.00000	0.06417	0.06811

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFNQX3H7H	CKN->Q (FR)	0.17273	0.37215	0.84086

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFNQX3H7H	CKN->Q (FF)	0.24913	0.42702	0.80545

Constraint Information

Min Pulse Width (ns) for CKN:

Cell Name	High	Low
DFFNQX3H7H	0.9851	0.9851

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFNQX3H7H	**hold**	**CKN (F)**	-0.14494	0.03882	0.22890
	setup	**CKN (F)**	-0.20053	0.01452	0.21276

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFNQX3H7H	**hold**	**CKN (F)**	-0.20863	-0.05588	0.06457
	setup	**CKN (F)**	-0.05139	0.07432	0.23933

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFNQX3H7H	CKN	0.00467	0.00481	0.00495
	CKN	-0.00000	-0.00000	0.00000
	CKN	-0.00000	-0.00000	0.00000
	CKN	0.00398	0.00411	0.00426

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFNQX3H7H	CKN	0.00464	0.00476	0.00488
	CKN	-0.00000	0.00000	0.00003
	CKN	0.00000	0.00000	0.00000
	CKN	0.00398	0.00410	0.00422

Passive power(pJ) for CKN rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFNQX3H7H	0.00298	0.00303	0.00308
	0.00005	0.00006	0.00007
	-0.00000	-0.00000	0.00000
	0.00386	0.00391	0.00396

Passive power(pJ) for CKN falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFNQX3H7H	0.00251	0.00255	0.00261
	-0.00001	-0.00000	0.00000
	0.00000	0.00000	0.00000
	0.00181	0.00185	0.00189

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFNQX3H7H	0.00115	0.00117	0.00119
	0.00003	0.00003	0.00004
	-0.00005	-0.00004	-0.00003
	0.00175	0.00177	0.00179

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFNQX3H7H	0.00170	0.00172	0.00175
	-0.00004	-0.00003	-0.00003
	0.00003	0.00004	0.00005
	0.00110	0.00112	0.00114

DFFNRX0P5H7H

Cell Description

Negative Edge Trigger D Flip-Flop with Async Clear
Q = ! RN ? 0 : falling (CKN) ? D : pre_Q
QN = !Q

Truth Table

INPUT			OUTPUT	
CKN	D	RN	Q	QN
F	0	1	0	1
F	1	1	1	0
x	x	0	0	1
x	x	1	IQ	IQN

Footprint

Cell Name	Area
DFFNRX0P5H7H	8.40000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)	
	CKN	D	RN	Q	QN
DFFNRX0P5H7H	0.00112	0.00086	0.00106	0.04251	0.04303

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DFFNRX0P5H7H	0.00000	0.07926	0.08118

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFNRX0P5H7H	CKN->Q (FR)	RN	0.27619	0.45504	0.90233

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFNRX0P5H7H	CKN->Q (FF)	RN	0.19329	0.34877	0.72759
	RN->Q (FF)	(CKN * D)	0.14247	0.28261	0.61283
	RN->Q (FF)	(CKN * !D)	0.14037	0.28027	0.60992
	RN->Q (FF)	(!CKN * D)	0.15310	0.29370	0.62365
	RN->Q (FF)	(!CKN * !D)	0.15310	0.29370	0.62371

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFNRX0P5H7H	CKN->QN (FR)	RN	0.14102	0.33673	0.80332
	RN->QN (FR)	(CKN * D)	0.09512	0.26892	0.68265
	RN->QN (FR)	(CKN * !D)	0.09356	0.26672	0.67966
	RN->QN (FR)	(!CKN * D)	0.10092	0.28181	0.69943
	RN->QN (FR)	(!CKN * !D)	0.10092	0.28181	0.69957

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFNRX0P5H7H	CKN->QN (FF)	RN	0.20894	0.39781	0.79922

Constraint Information

Min Pulse Width (ns) for CKN:

Cell Name	High	Low
DFFNRX0P5H7H	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFNRX0P5H7H	**hold**	**CKN (F)**	-0.08155	0.06463	0.23855
	setup	**CKN (F)**	-0.20355	0.00565	0.20552

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFNRX0P5H7H	**hold**	**CKN (F)**	-0.17949	-0.04109	0.06856
	setup	**CKN (F)**	-0.03687	0.09053	0.26832

Constraints(ns) for RN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFNRX0P5H7H	**recovery**	**CKN (F)**	-0.22537	-0.02500	0.13802
	removal	**CKN (F)**	0.02075	0.14169	0.32353

Min Pulse Width (ns) for RN:

Cell Name	High	Low
DFFNRX0P5H7H	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFNRX0P5H7H	CKN	RN	0.00274	0.00279	0.00284
	CKN	RN	-0.00003	-0.00001	0.00000
	CKN	RN	0.00002	0.00003	0.00004
	CKN	RN	0.00228	0.00234	0.00239

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFNRX0P5H7H	CKN	RN	0.00244	0.00251	0.00258
	CKN	RN	0.00000	0.00001	0.00003
	CKN	RN	-0.00004	-0.00003	-0.00002
	CKN	RN	0.00211	0.00219	0.00225
	RN	(CKN * D)	0.00191	0.00197	0.00201
	RN	(CKN * D)	0.00003	0.00003	0.00005
	RN	(CKN * D)	-0.00005	-0.00004	-0.00003
	RN	(CKN * D)	0.00161	0.00166	0.00170
	RN	(CKN * !D)	0.00191	0.00196	0.00201
	RN	(CKN * !D)	0.00001	0.00002	0.00004
	RN	(CKN * !D)	-0.00004	-0.00003	-0.00004
	RN	(CKN * !D)	0.00159	0.00164	0.00169
	RN	(!CKN * D)	0.00258	0.00263	0.00268
	RN	(!CKN * D)	-0.00001	0.00000	0.00001
	RN	(!CKN * D)	-0.00000	0.00000	0.00001
	RN	(!CKN * D)	0.00220	0.00225	0.00230
	RN	(!CKN * !D)	0.00258	0.00263	0.00268
	RN	(!CKN * !D)	-0.00001	0.00000	0.00002
	RN	(!CKN * !D)	-0.00001	0.00000	0.00001
	RN	(!CKN * !D)	0.00220	0.00225	0.00230

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFNRX0P5H7H	CKN	RN	0.00244	0.00251	0.00258
	CKN	RN	0.00001	0.00001	0.00003
	CKN	RN	-0.00003	-0.00003	-0.00001
	CKN	RN	0.00212	0.00219	0.00225
	RN	(CKN * D)	0.00192	0.00197	0.00201
	RN	(CKN * D)	0.00003	0.00003	0.00004
	RN	(CKN * D)	-0.00006	-0.00004	-0.00003
	RN	(CKN * D)	0.00161	0.00166	0.00170
	RN	(CKN * !D)	0.00191	0.00196	0.00201
	RN	(CKN * !D)	0.00002	0.00003	0.00005
	RN	(CKN * !D)	-0.00005	-0.00004	-0.00002
	RN	(CKN * !D)	0.00159	0.00164	0.00169
	RN	(!CKN * D)	0.00257	0.00263	0.00268
	RN	(!CKN * D)	-0.00002	0.00000	0.00002
	RN	(!CKN * D)	-0.00000	0.00000	0.00001
	RN	(!CKN * D)	0.00220	0.00225	0.00230
	RN	(!CKN * !D)	0.00258	0.00263	0.00268
	RN	(!CKN * !D)	-0.00002	0.00000	0.00002
	RN	(!CKN * !D)	-0.00001	0.00000	0.00001
	RN	(!CKN * !D)	0.00220	0.00225	0.00230

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFNRX0P5H7H	CKN	RN	0.00274	0.00279	0.00284
	CKN	RN	-0.00003	-0.00001	-0.00001
	CKN	RN	0.00001	0.00003	0.00003
	CKN	RN	0.00228	0.00234	0.00239

Passive power(pJ) for CKN rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFNRX0P5H7H	0.00329	0.00333	0.00339
	0.00006	0.00006	0.00007
	-0.00005	-0.00004	-0.00004
	0.00422	0.00426	0.00432

Passive power(pJ) for CKN falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFNRX0P5H7H	0.00402	0.00413	0.00422
	-0.00005	-0.00004	-0.00004
	0.00004	0.00005	0.00006
	0.00313	0.00324	0.00332

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFNRX0P5H7H	0.00118	0.00119	0.00121
	0.00002	0.00003	0.00003
	-0.00004	-0.00003	-0.00003
	0.00186	0.00188	0.00190

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFNRX0P5H7H	0.00188	0.00189	0.00191
	-0.00003	-0.00003	-0.00002
	0.00003	0.00004	0.00004
	0.00117	0.00119	0.00120

Passive power(pJ) for RN rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFNRX0P5H7H	0.00121	0.00123	0.00126
	0.00000	0.00000	0.00000
	0.00000	0.00001	0.00001
	0.00182	0.00185	0.00187

Passive power(pJ) for RN falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFNRX0P5H7H	0.00096	0.00099	0.00103
	0.00000	0.00000	0.00000
	0.00003	0.00003	0.00004
	0.00012	0.00015	0.00019

DFFNRX1H7H

Cell Description

Negative Edge Trigger D Flip-Flop with Async Clear
Q = ! RN ? 0 : falling (CKN) ? D : pre_Q
QN = !Q

Truth Table

INPUT			OUTPUT	
CKN	D	RN	Q	QN
F	0	1	0	1
F	1	1	1	0
x	x	0	0	1
x	x	1	IQ	IQN

Footprint

Cell Name	Area
DFFNRX1H7H	9.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)	
	CKN	D	RN	Q	QN
DFFNRX1H7H	0.00105	0.00087	0.00124	0.04999	0.05031

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DFFNRX1H7H	0.00000	0.08942	0.09421

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFNRX1H7H	CKN->Q (FR)	RN	0.28702	0.46879	0.92569

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFNRX1H7H	CKN->Q (FF)	RN	0.20154	0.36101	0.75116
	RN->Q (FF)	(CKN * D)	0.14400	0.28722	0.62578
	RN->Q (FF)	(CKN * !D)	0.14228	0.28527	0.62332
	RN->Q (FF)	(!CKN * D)	0.15556	0.29978	0.63860
	RN->Q (FF)	(!CKN * !D)	0.15555	0.29976	0.63855

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFNRX1H7H	CKN->QN (FR)	RN	0.15152	0.34963	0.82251
	RN->QN (FR)	(CKN * D)	0.09842	0.27390	0.68988
	RN->QN (FR)	(CKN * !D)	0.09718	0.27204	0.68763
	RN->QN (FR)	(!CKN * D)	0.10502	0.28938	0.71154
	RN->QN (FR)	(!CKN * !D)	0.10502	0.28937	0.71141

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFNRX1H7H	CKN->QN (FF)	RN	0.22274	0.41749	0.83266

Constraint Information

Min Pulse Width (ns) for CKN:

Cell Name	High	Low
DFFNRX1H7H	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFNRX1H7H	**hold**	**CKN (F)**	-0.06884	0.07875	0.26242
	setup	**CKN (F)**	-0.21585	0.00482	0.21407

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFNRX1H7H	**hold**	**CKN (F)**	-0.19911	-0.04869	0.06742
	setup	**CKN (F)**	-0.02781	0.10527	0.29122

Constraints(ns) for RN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFNRX1H7H	**recovery**	**CKN (F)**	-0.24951	-0.03227	0.14253
	removal	**CKN (F)**	0.03258	0.16156	0.35546

Min Pulse Width (ns) for RN:

Cell Name	High	Low
DFFNRX1H7H	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFNRX1H7H	CKN	RN	0.00303	0.00309	0.00314
	CKN	RN	-0.00001	-0.00001	-0.00001
	CKN	RN	0.00001	0.00003	0.00004
	CKN	RN	0.00258	0.00264	0.00269

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFNRX1H7H	CKN	RN	0.00273	0.00281	0.00288
	CKN	RN	0.00001	0.00001	0.00001
	CKN	RN	-0.00004	-0.00003	-0.00001
	CKN	RN	0.00248	0.00256	0.00263
	RN	(CKN * D)	0.00201	0.00207	0.00212
	RN	(CKN * D)	0.00003	0.00003	0.00004
	RN	(CKN * D)	-0.00006	-0.00004	-0.00003
	RN	(CKN * D)	0.00168	0.00173	0.00178
	RN	(CKN * !D)	0.00201	0.00207	0.00213
	RN	(CKN * !D)	0.00003	0.00003	0.00012
	RN	(CKN * !D)	-0.00004	-0.00004	-0.00003
	RN	(CKN * !D)	0.00166	0.00172	0.00177
	RN	(!CKN * D)	0.00280	0.00287	0.00292
	RN	(!CKN * D)	-0.00000	0.00001	0.00003
	RN	(!CKN * D)	-0.00001	-0.00000	0.00001
	RN	(!CKN * D)	0.00242	0.00248	0.00253
	RN	(!CKN * !D)	0.00280	0.00287	0.00293
	RN	(!CKN * !D)	0.00001	0.00001	0.00003
	RN	(!CKN * !D)	-0.00001	-0.00000	0.00001
	RN	(!CKN * !D)	0.00242	0.00248	0.00253

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFNRX1H7H	CKN	RN	0.00273	0.00281	0.00288
	CKN	RN	0.00001	0.00001	0.00002
	CKN	RN	-0.00004	-0.00003	-0.00002
	CKN	RN	0.00248	0.00256	0.00263
	RN	(CKN * D)	0.00201	0.00207	0.00212
	RN	(CKN * D)	0.00003	0.00003	0.00004
	RN	(CKN * D)	-0.00006	-0.00004	-0.00002
	RN	(CKN * D)	0.00166	0.00173	0.00178
	RN	(CKN * !D)	0.00198	0.00207	0.00213
	RN	(CKN * !D)	0.00000	0.00003	0.00016
	RN	(CKN * !D)	-0.00005	-0.00003	-0.00002
	RN	(CKN * !D)	0.00166	0.00172	0.00178
	RN	(!CKN * D)	0.00281	0.00287	0.00293
	RN	(!CKN * D)	0.00000	0.00001	0.00003
	RN	(!CKN * D)	-0.00003	-0.00000	0.00001
	RN	(!CKN * D)	0.00242	0.00248	0.00253
	RN	(!CKN * !D)	0.00281	0.00287	0.00293
	RN	(!CKN * !D)	-0.00001	0.00001	0.00003
	RN	(!CKN * !D)	-0.00001	-0.00000	0.00003
	RN	(!CKN * !D)	0.00241	0.00248	0.00253

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFNRX1H7H	CKN	RN	0.00303	0.00309	0.00314
	CKN	RN	-0.00002	-0.00001	-0.00001
	CKN	RN	0.00002	0.00003	0.00004
	CKN	RN	0.00257	0.00264	0.00269

Passive power(pJ) for CKN rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFNRX1H7H	0.00394	0.00399	0.00404
	0.00004	0.00005	0.00006
	-0.00004	-0.00004	-0.00003
	0.00478	0.00483	0.00488

Passive power(pJ) for CKN falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFNRX1H7H	0.00460	0.00472	0.00481
	-0.00002	-0.00002	-0.00001
	0.00003	0.00004	0.00005
	0.00383	0.00394	0.00402

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFNRX1H7H	0.00146	0.00149	0.00151
	0.00001	0.00002	0.00002
	-0.00003	-0.00003	-0.00003
	0.00214	0.00217	0.00221

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFNRX1H7H	0.00209	0.00210	0.00212
	-0.00002	-0.00002	-0.00001
	0.00003	0.00003	0.00003
	0.00140	0.00141	0.00143

Passive power(pJ) for RN rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFNRX1H7H	0.00114	0.00116	0.00118
	0.00000	0.00000	0.00000
	-0.00001	-0.00000	0.00001
	0.00189	0.00192	0.00194

Passive power(pJ) for RN falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFNRX1H7H	0.00109	0.00112	0.00116
	0.00000	0.00000	0.00000
	0.00003	0.00003	0.00004
	0.00011	0.00014	0.00017

DFFNRX2H7H

Cell Description

Negative Edge Trigger D Flip-Flop with Async Clear
Q = ! RN ? 0 : falling (CKN) ? D : pre_Q
QN = !Q

Truth Table

INPUT			OUTPUT	
CKN	D	RN	Q	QN
F	0	1	0	1
F	1	1	1	0
x	x	0	0	1
x	x	1	IQ	IQN

Footprint

Cell Name	Area
DFFNRX2H7H	9.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)	
	CKN	D	RN	Q	QN
DFFNRX2H7H	0.00119	0.00088	0.00123	0.05686	0.05678

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DFFNRX2H7H	0.00000	0.10577	0.11749

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFNRX2H7H	CKN->Q (FR)	RN	0.27816	0.45813	0.91017

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFNRX2H7H	CKN->Q (FF)	RN	0.19491	0.34135	0.69542
	RN->Q (FF)	(CKN * D)	0.14468	0.27508	0.57934
	RN->Q (FF)	(CKN * !D)	0.14289	0.27307	0.57649
	RN->Q (FF)	(!CKN * D)	0.15762	0.28899	0.59274
	RN->Q (FF)	(!CKN * !D)	0.15762	0.28898	0.59274

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFNRX2H7H	CKN->QN (FR)	RN	0.14363	0.34017	0.80696
	RN->QN (FR)	(CKN * D)	0.09748	0.27227	0.68453
	RN->QN (FR)	(CKN * !D)	0.09624	0.27035	0.68193
	RN->QN (FR)	(!CKN * D)	0.10485	0.28877	0.70703
	RN->QN (FR)	(!CKN * !D)	0.10485	0.28877	0.70703

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFNRX2H7H	CKN->QN (FF)	RN	0.20755	0.40012	0.80970

Constraint Information

Min Pulse Width (ns) for CKN:

Cell Name	High	Low
DFFNRX2H7H	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFNRX2H7H	**hold**	**CKN (F)**	-0.07445	0.06962	0.24943
	setup	**CKN (F)**	-0.20409	0.01288	0.22240

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFNRX2H7H	**hold**	**CKN (F)**	-0.20143	-0.05158	0.06181
	setup	**CKN (F)**	-0.01866	0.11073	0.29996

Constraints(ns) for RN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFNRX2H7H	**recovery**	**CKN (F)**	-0.23697	-0.02686	0.14448
	removal	**CKN (F)**	0.02647	0.15523	0.34329

Min Pulse Width (ns) for RN:

Cell Name	High	Low
DFFNRX2H7H	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFNRX2H7H	CKN	RN	0.00324	0.00331	0.00338
	CKN	RN	-0.00002	-0.00001	0.00000
	CKN	RN	0.00001	0.00003	0.00004
	CKN	RN	0.00273	0.00280	0.00287

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFNRX2H7H	CKN	RN	0.00301	0.00311	0.00319
	CKN	RN	0.00000	0.00001	0.00003
	CKN	RN	-0.00004	-0.00003	-0.00001
	CKN	RN	0.00271	0.00280	0.00289
	RN	(CKN * D)	0.00223	0.00230	0.00236
	RN	(CKN * D)	0.00002	0.00003	0.00005
	RN	(CKN * D)	-0.00006	-0.00004	-0.00004
	RN	(CKN * D)	0.00190	0.00197	0.00202
	RN	(CKN * !D)	0.00223	0.00230	0.00236
	RN	(CKN * !D)	0.00001	0.00003	0.00004
	RN	(CKN * !D)	-0.00004	-0.00003	-0.00003
	RN	(CKN * !D)	0.00188	0.00196	0.00202
	RN	(!CKN * D)	0.00307	0.00314	0.00320
	RN	(!CKN * D)	0.00001	0.00002	0.00002
	RN	(!CKN * D)	-0.00001	-0.00000	0.00001
	RN	(!CKN * D)	0.00268	0.00276	0.00282
	RN	(!CKN * !D)	0.00307	0.00314	0.00320
	RN	(!CKN * !D)	0.00001	0.00002	0.00002
	RN	(!CKN * !D)	-0.00001	-0.00000	0.00001
	RN	(!CKN * !D)	0.00268	0.00276	0.00282

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFNRX2H7H	CKN	RN	0.00301	0.00311	0.00319
	CKN	RN	0.00000	0.00002	0.00004
	CKN	RN	-0.00004	-0.00003	-0.00001
	CKN	RN	0.00271	0.00281	0.00289
	RN	(CKN * D)	0.00223	0.00230	0.00236
	RN	(CKN * D)	0.00002	0.00003	0.00004
	RN	(CKN * D)	-0.00006	-0.00004	-0.00002
	RN	(CKN * D)	0.00190	0.00197	0.00202
	RN	(CKN * !D)	0.00223	0.00230	0.00236
	RN	(CKN * !D)	0.00002	0.00003	0.00004
	RN	(CKN * !D)	-0.00006	-0.00004	-0.00002
	RN	(CKN * !D)	0.00189	0.00196	0.00202
	RN	(!CKN * D)	0.00307	0.00314	0.00321
	RN	(!CKN * D)	-0.00001	0.00002	0.00005
	RN	(!CKN * D)	-0.00002	-0.00000	0.00002
	RN	(!CKN * D)	0.00268	0.00276	0.00282
	RN	(!CKN * !D)	0.00306	0.00314	0.00321
	RN	(!CKN * !D)	-0.00001	0.00002	0.00005
	RN	(!CKN * !D)	-0.00002	-0.00000	0.00002
	RN	(!CKN * !D)	0.00268	0.00276	0.00282

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFNRX2H7H	CKN	RN	0.00324	0.00331	0.00338
	CKN	RN	-0.00004	-0.00001	0.00000
	CKN	RN	0.00001	0.00003	0.00005
	CKN	RN	0.00273	0.00280	0.00287

Passive power(pJ) for CKN rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFNRX2H7H	0.00403	0.00408	0.00413
	0.00003	0.00004	0.00006
	-0.00003	-0.00003	-0.00002
	0.00497	0.00502	0.00508

Passive power(pJ) for CKN falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFNRX2H7H	0.00480	0.00492	0.00502
	-0.00000	0.00000	0.00001
	0.00002	0.00003	0.00004
	0.00392	0.00405	0.00415

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFNRX2H7H	0.00151	0.00153	0.00155
	0.00000	0.00001	0.00001
	-0.00002	-0.00002	-0.00002
	0.00218	0.00221	0.00224

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFNRX2H7H	0.00214	0.00215	0.00217
	-0.00001	-0.00001	-0.00000
	0.00002	0.00002	0.00002
	0.00146	0.00148	0.00151

Passive power(pJ) for RN rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFNRX2H7H	0.00123	0.00126	0.00130
	0.00000	0.00000	0.00000
	-0.00001	-0.00001	-0.00000
	0.00198	0.00201	0.00204

Passive power(pJ) for RN falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFNRX2H7H	0.00112	0.00115	0.00119
	0.00000	0.00000	0.00000
	0.00004	0.00004	0.00005
	0.00014	0.00016	0.00020

DFFNRX4H7H

Cell Description

Negative Edge Trigger D Flip-Flop with Async Clear
Q = ! RN ? 0 : falling (CKN) ? D : pre_Q
QN = !Q

Truth Table

INPUT			OUTPUT	
CKN	D	RN	Q	QN
F	0	1	0	1
F	1	1	1	0
x	x	0	0	1
x	x	1	IQ	IQN

Footprint

Cell Name	Area
DFFNRX4H7H	11.20000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)	
	CKN	D	RN	Q	QN
DFFNRX4H7H	0.00123	0.00093	0.00123	0.11367	0.11288

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DFFNRX4H7H	0.00000	0.12278	0.12538

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFNRX4H7H	CKN->Q (FR)	RN	0.33537	0.50927	0.95911

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFNRX4H7H	CKN->Q (FF)	RN	0.22664	0.37903	0.75002
	RN->Q (FF)	(CKN * D)	0.17797	0.31419	0.63400
	RN->Q (FF)	(CKN * !D)	0.17575	0.31195	0.63157
	RN->Q (FF)	(!CKN * D)	0.19409	0.33096	0.65065
	RN->Q (FF)	(!CKN * !D)	0.19412	0.33097	0.65071

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFNRX4H7H	CKN->QN (FR)	RN	0.15298	0.35363	0.82394
	RN->QN (FR)	(CKN * D)	0.10951	0.28832	0.70207
	RN->QN (FR)	(CKN * !D)	0.10817	0.28629	0.69981
	RN->QN (FR)	(!CKN * D)	0.11699	0.30523	0.72516
	RN->QN (FR)	(!CKN * !D)	0.11703	0.30523	0.72517

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFNRX4H7H	CKN->QN (FF)	RN	0.22412	0.42066	0.82614

Constraint Information

Min Pulse Width (ns) for CKN:

Cell Name	High	Low
DFFNRX4H7H	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFNRX4H7H	**hold**	**CKN (F)**	-0.06611	0.07708	0.26104
	setup	**CKN (F)**	-0.21026	0.00578	0.21277

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFNRX4H7H	**hold**	**CKN (F)**	-0.19203	-0.04417	0.07382
	setup	**CKN (F)**	-0.02813	0.10175	0.28807

Constraints(ns) for RN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFNRX4H7H	**recovery**	**CKN (F)**	-0.24245	-0.03267	0.13810
	removal	**CKN (F)**	0.01596	0.14714	0.33756

Min Pulse Width (ns) for RN:

Cell Name	High	Low
DFFNRX4H7H	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFNRX4H7H	CKN	RN	0.00411	0.00422	0.00435
	CKN	RN	-0.00001	-0.00001	-0.00001
	CKN	RN	0.00003	0.00003	0.00003
	CKN	RN	0.00357	0.00369	0.00381

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFNRX4H7H	CKN	RN	0.00388	0.00404	0.00418
	CKN	RN	0.00001	0.00001	0.00001
	CKN	RN	-0.00003	-0.00003	-0.00003
	CKN	RN	0.00356	0.00372	0.00386
	RN	(CKN * D)	0.00299	0.00313	0.00324
	RN	(CKN * D)	0.00000	0.00004	0.00005
	RN	(CKN * D)	-0.00004	-0.00004	-0.00001
	RN	(CKN * D)	0.00267	0.00280	0.00291
	RN	(CKN * !D)	0.00299	0.00314	0.00324
	RN	(CKN * !D)	0.00001	0.00003	0.00005
	RN	(CKN * !D)	-0.00004	-0.00003	-0.00003
	RN	(CKN * !D)	0.00266	0.00280	0.00291
	RN	(!CKN * D)	0.00390	0.00404	0.00415
	RN	(!CKN * D)	0.00000	0.00002	0.00004
	RN	(!CKN * D)	-0.00002	-0.00001	-0.00000
	RN	(!CKN * D)	0.00352	0.00366	0.00377
	RN	(!CKN * !D)	0.00390	0.00404	0.00415
	RN	(!CKN * !D)	0.00000	0.00002	0.00003
	RN	(!CKN * !D)	-0.00002	-0.00001	-0.00001
	RN	(!CKN * !D)	0.00352	0.00366	0.00377

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFNRX4H7H	CKN	RN	0.00387	0.00404	0.00418
	CKN	RN	0.00000	0.00002	0.00005
	CKN	RN	-0.00004	-0.00003	-0.00001
	CKN	RN	0.00356	0.00372	0.00386
	RN	(CKN * D)	0.00298	0.00313	0.00324
	RN	(CKN * D)	0.00001	0.00004	0.00006
	RN	(CKN * D)	-0.00005	-0.00004	-0.00001
	RN	(CKN * D)	0.00267	0.00280	0.00291
	RN	(CKN * !D)	0.00298	0.00314	0.00328
	RN	(CKN * !D)	-0.00001	0.00002	0.00005
	RN	(CKN * !D)	-0.00006	-0.00003	-0.00001
	RN	(CKN * !D)	0.00266	0.00280	0.00290
	RN	(!CKN * D)	0.00390	0.00404	0.00415
	RN	(!CKN * D)	-0.00001	0.00001	0.00005
	RN	(!CKN * D)	-0.00004	-0.00000	0.00003
	RN	(!CKN * D)	0.00351	0.00365	0.00377
	RN	(!CKN * !D)	0.00389	0.00404	0.00415
	RN	(!CKN * !D)	-0.00001	0.00002	0.00004
	RN	(!CKN * !D)	-0.00003	-0.00001	0.00003
	RN	(!CKN * !D)	0.00352	0.00365	0.00377

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFNRX4H7H	CKN	RN	0.00410	0.00422	0.00435
	CKN	RN	-0.00003	-0.00001	0.00000
	CKN	RN	0.00001	0.00003	0.00005
	CKN	RN	0.00358	0.00369	0.00381

Passive power(pJ) for CKN rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFNRX4H7H	0.00408	0.00421	0.00432
	0.00000	0.00000	0.00000
	0.00006	0.00006	0.00007
	0.00482	0.00493	0.00504

Passive power(pJ) for CKN falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFNRX4H7H	0.00496	0.00509	0.00519
	0.00000	0.00000	0.00000
	0.00003	0.00004	0.00005
	0.00404	0.00416	0.00425

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFNRX4H7H	0.00155	0.00158	0.00160
	0.00002	0.00002	0.00002
	-0.00002	-0.00002	-0.00001
	0.00227	0.00230	0.00234

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFNRX4H7H	0.00221	0.00222	0.00224
	-0.00002	-0.00002	-0.00002
	0.00001	0.00002	0.00002
	0.00149	0.00151	0.00153

Passive power(pJ) for RN rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFNRX4H7H	0.00128	0.00130	0.00133
	0.00000	0.00000	0.00000
	-0.00001	-0.00000	0.00000
	0.00202	0.00205	0.00208

Passive power(pJ) for RN falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFNRX4H7H	0.00112	0.00115	0.00119
	0.00000	0.00000	0.00000
	0.00003	0.00004	0.00004
	0.00013	0.00016	0.00020

DFFNSX0P5H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Negative Edge Trigger D Flip-Flop with Async Set
Q = ! SN ? 1 : falling (CKN) ? D : pre_Q
QN = !Q

Truth Table

INPUT			OUTPUT	
CKN	D	SN	Q	QN
F	0	1	0	1
F	1	1	1	0
x	x	0	1	0
x	x	1	IQ	IQN

Footprint

Cell Name	Area
DFFNSX0P5H7H	9.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)	
	CKN	D	SN	Q	QN
DFFNSX0P5H7H	0.00115	0.00089	0.00091	0.04253	0.04285

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DFFNSX0P5H7H	0.00000	0.06822	0.08009

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFNSX0P5H7H	CKN->Q (FR)	SN	0.23362	0.41506	0.86781
	SN->Q (FR)	(CKN * D)	0.14409	0.32966	0.79706
	SN->Q (FR)	(CKN * !D)	0.15138	0.33976	0.81692
	SN->Q (FR)	(!CKN * D)	0.16187	0.35153	0.83266
	SN->Q (FR)	(!CKN * !D)	0.16187	0.35153	0.83266

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFNSX0P5H7H	CKN->Q (FF)	SN	0.20740	0.36302	0.74072

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFNSX0P5H7H	CKN->QN (FR)	SN	0.14653	0.34810	0.81735

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFNSX0P5H7H	CKN->QN (FF)	SN	0.17698	0.34806	0.73632
	SN->QN (FF)	(CKN * D)	0.08966	0.25942	0.66492
	SN->QN (FF)	(CKN * !D)	0.09613	0.26937	0.68363
	SN->QN (FF)	(!CKN * D)	0.10088	0.28803	0.72761
	SN->QN (FF)	(!CKN * !D)	0.10088	0.28804	0.72780

Constraint Information

Min Pulse Width (ns) for CKN:

Cell Name	High	Low
DFFNSX0P5H7H	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFNSX0P5H7H	**hold**	**CKN (F)**	-0.07787	0.06320	0.23545
	setup	**CKN (F)**	-0.19560	0.00328	0.20934

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFNSX0P5H7H	**hold**	**CKN (F)**	-0.21256	-0.05943	0.06020
	setup	**CKN (F)**	-0.02317	0.11101	0.29882

Constraints(ns) for SN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFNSX0P5H7H	**recovery**	**CKN (F)**	-0.17795	0.00715	0.23453
	removal	**CKN (F)**	0.15902	0.25461	0.47516

Min Pulse Width (ns) for SN:

Cell Name	High	Low
DFFNSX0P5H7H	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFNSX0P5H7H	CKN	SN	0.00280	0.00286	0.00292
	CKN	SN	-0.00003	-0.00003	-0.00003
	CKN	SN	0.00000	0.00001	0.00003
	CKN	SN	0.00229	0.00235	0.00241
	SN	(CKN * D)	0.00152	0.00160	0.00166
	SN	(CKN * D)	-0.00006	-0.00005	-0.00004
	SN	(CKN * D)	0.00004	0.00004	0.00006
	SN	(CKN * D)	0.00111	0.00119	0.00125
	SN	(CKN * !D)	0.00160	0.00166	0.00172
	SN	(CKN * !D)	-0.00006	-0.00006	-0.00004
	SN	(CKN * !D)	0.00006	0.00006	0.00007
	SN	(CKN * !D)	0.00116	0.00123	0.00128
	SN	(!CKN * D)	0.00222	0.00231	0.00238
	SN	(!CKN * D)	-0.00003	-0.00002	-0.00002
	SN	(!CKN * D)	0.00001	0.00001	0.00001
	SN	(!CKN * D)	0.00188	0.00197	0.00204
	SN	(!CKN * !D)	0.00222	0.00231	0.00238
	SN	(!CKN * !D)	-0.00003	-0.00002	-0.00002
	SN	(!CKN * !D)	0.00001	0.00001	0.00001
	SN	(!CKN * !D)	0.00188	0.00197	0.00204

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFNSX0P5H7H	CKN	SN	0.00258	0.00266	0.00273
	CKN	SN	0.00003	0.00003	0.00003
	CKN	SN	-0.00003	-0.00001	0.00000
	CKN	SN	0.00228	0.00236	0.00243

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFNSX0P5H7H	CKN	SN	0.00258	0.00266	0.00273
	CKN	SN	0.00002	0.00003	0.00003
	CKN	SN	-0.00002	-0.00001	0.00000
	CKN	SN	0.00228	0.00236	0.00243

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFNSX0P5H7H	CKN	SN	0.00280	0.00286	0.00291
	CKN	SN	-0.00003	-0.00003	-0.00002
	CKN	SN	0.00000	0.00001	0.00002
	CKN	SN	0.00230	0.00236	0.00241
	SN	(CKN * D)	0.00152	0.00160	0.00166
	SN	(CKN * D)	-0.00006	-0.00005	-0.00003
	SN	(CKN * D)	0.00004	0.00004	0.00005
	SN	(CKN * D)	0.00111	0.00119	0.00125
	SN	(CKN * !D)	0.00160	0.00166	0.00172
	SN	(CKN * !D)	-0.00007	-0.00006	-0.00004
	SN	(CKN * !D)	0.00005	0.00006	0.00007
	SN	(CKN * !D)	0.00116	0.00123	0.00128
	SN	(!CKN * D)	0.00222	0.00231	0.00238
	SN	(!CKN * D)	-0.00003	-0.00002	-0.00001
	SN	(!CKN * D)	-0.00000	0.00001	0.00003
	SN	(!CKN * D)	0.00188	0.00197	0.00204
	SN	(!CKN * !D)	0.00222	0.00231	0.00238
	SN	(!CKN * !D)	-0.00003	-0.00002	-0.00001
	SN	(!CKN * !D)	-0.00000	0.00001	0.00003
	SN	(!CKN * !D)	0.00188	0.00197	0.00204

Passive power(pJ) for CKN rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFNSX0P5H7H	0.00348	0.00353	0.00358
	0.00005	0.00005	0.00006
	-0.00000	-0.00000	0.00000
	0.00445	0.00449	0.00455

Passive power(pJ) for CKN falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFNSX0P5H7H	0.00421	0.00428	0.00436
	0.00001	0.00002	0.00003
	0.00000	0.00000	0.00000
	0.00343	0.00350	0.00357

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFNSX0P5H7H	0.00143	0.00145	0.00146
	0.00002	0.00002	0.00002
	-0.00002	-0.00002	-0.00002
	0.00209	0.00210	0.00211

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFNSX0P5H7H	0.00191	0.00194	0.00196
	-0.00002	-0.00002	-0.00002
	0.00002	0.00003	0.00003
	0.00127	0.00128	0.00130

Passive power(pJ) for SN rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFNSX0P5H7H	0.00049	0.00049	0.00049
	0.00004	0.00005	0.00006
	0.00000	0.00000	0.00000
	0.00127	0.00128	0.00128

Passive power(pJ) for SN falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFNSX0P5H7H	0.00020	0.00021	0.00022
	0.00001	0.00001	0.00001
	0.00000	0.00000	0.00000
	-0.00032	-0.00031	-0.00028

DFFNSX1H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Negative Edge Trigger D Flip-Flop with Async Set
Q = ! SN ? 1 : falling (CKN) ? D : pre_Q
QN = !Q

Truth Table

INPUT			OUTPUT	
CKN	D	SN	Q	QN
F	0	1	0	1
F	1	1	1	0
x	x	0	1	0
x	x	1	IQ	IQN

Footprint

Cell Name	Area
DFFNSX1H7H	9.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)	
	CKN	D	SN	Q	QN
DFFNSX1H7H	0.00115	0.00089	0.00091	0.05026	0.04986

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DFFNSX1H7H	0.00000	0.07703	0.09442

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFNSX1H7H	CKN->Q (FR)	SN	0.23027	0.41253	0.86791
	SN->Q (FR)	(CKN * D)	0.14481	0.33156	0.80297
	SN->Q (FR)	(CKN * !D)	0.15246	0.34200	0.82381
	SN->Q (FR)	(!CKN * D)	0.16345	0.35437	0.83987
	SN->Q (FR)	(!CKN * !D)	0.16345	0.35437	0.83987

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFNSX1H7H	CKN->Q (FF)	SN	0.20612	0.36409	0.74817

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFNSX1H7H	CKN->QN (FR)	SN	0.14501	0.34675	0.81458

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFNSX1H7H	CKN->QN (FF)	SN	0.17496	0.34768	0.73883
	SN->QN (FF)	(CKN * D)	0.09077	0.26347	0.67390
	SN->QN (FF)	(CKN * !D)	0.09755	0.27374	0.69345
	SN->QN (FF)	(!CKN * D)	0.10274	0.29348	0.73910
	SN->QN (FF)	(!CKN * !D)	0.10274	0.29348	0.73910

Constraint Information

Min Pulse Width (ns) for CKN:

Cell Name	High	Low
DFFNSX1H7H	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFNSX1H7H	**hold**	**CKN (F)**	-0.07985	0.06326	0.23774
	setup	**CKN (F)**	-0.19754	0.00328	0.20876

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFNSX1H7H	**hold**	**CKN (F)**	-0.21348	-0.05957	0.05986
	setup	**CKN (F)**	-0.02111	0.11231	0.30265

Constraints(ns) for SN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFNSX1H7H	**recovery**	**CKN (F)**	-0.17595	0.00951	0.23778
	removal	**CKN (F)**	0.16136	0.25511	0.47487

Min Pulse Width (ns) for SN:

Cell Name	High	Low
DFFNSX1H7H	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFNSX1H7H	CKN	SN	0.00286	0.00294	0.00300
	CKN	SN	-0.00004	-0.00003	-0.00001
	CKN	SN	0.00000	0.00001	0.00003
	CKN	SN	0.00236	0.00243	0.00249
	SN	(CKN * D)	0.00159	0.00167	0.00173
	SN	(CKN * D)	-0.00006	-0.00005	-0.00003
	SN	(CKN * D)	0.00004	0.00005	0.00006
	SN	(CKN * D)	0.00118	0.00126	0.00132
	SN	(CKN * !D)	0.00167	0.00174	0.00179
	SN	(CKN * !D)	-0.00007	-0.00006	-0.00006
	SN	(CKN * !D)	0.00005	0.00006	0.00007
	SN	(CKN * !D)	0.00123	0.00130	0.00136
	SN	(!CKN * D)	0.00230	0.00240	0.00247
	SN	(!CKN * D)	-0.00002	-0.00002	-0.00002
	SN	(!CKN * D)	0.00002	0.00002	0.00002
	SN	(!CKN * D)	0.00196	0.00205	0.00212
	SN	(!CKN * !D)	0.00230	0.00240	0.00247
	SN	(!CKN * !D)	-0.00004	-0.00002	-0.00002
	SN	(!CKN * !D)	0.00001	0.00002	0.00002
	SN	(!CKN * !D)	0.00196	0.00205	0.00212

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFNSX1H7H	CKN	SN	0.00265	0.00274	0.00281
	CKN	SN	0.00001	0.00003	0.00004
	CKN	SN	-0.00003	-0.00001	0.00000
	CKN	SN	0.00235	0.00244	0.00251

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFNSX1H7H	CKN	SN	0.00265	0.00274	0.00281
	CKN	SN	0.00002	0.00003	0.00004
	CKN	SN	-0.00002	-0.00001	0.00000
	CKN	SN	0.00235	0.00244	0.00251

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFNSX1H7H	CKN	SN	0.00286	0.00294	0.00300
	CKN	SN	-0.00004	-0.00003	-0.00002
	CKN	SN	0.00000	0.00001	0.00002
	CKN	SN	0.00236	0.00243	0.00249
	SN	(CKN * D)	0.00159	0.00167	0.00173
	SN	(CKN * D)	-0.00006	-0.00005	-0.00004
	SN	(CKN * D)	0.00003	0.00004	0.00006
	SN	(CKN * D)	0.00118	0.00126	0.00132
	SN	(CKN * !D)	0.00167	0.00173	0.00179
	SN	(CKN * !D)	-0.00008	-0.00006	-0.00004
	SN	(CKN * !D)	0.00005	0.00006	0.00007
	SN	(CKN * !D)	0.00122	0.00130	0.00136
	SN	(!CKN * D)	0.00231	0.00240	0.00247
	SN	(!CKN * D)	-0.00004	-0.00002	-0.00002
	SN	(!CKN * D)	0.00001	0.00002	0.00003
	SN	(!CKN * D)	0.00196	0.00205	0.00212
	SN	(!CKN * !D)	0.00231	0.00240	0.00247
	SN	(!CKN * !D)	-0.00004	-0.00002	-0.00002
	SN	(!CKN * !D)	0.00001	0.00002	0.00003
	SN	(!CKN * !D)	0.00196	0.00205	0.00212

Passive power(pJ) for CKN rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFNSX1H7H	0.00352	0.00357	0.00363
	0.00004	0.00004	0.00005
	-0.00001	-0.00001	-0.00001
	0.00447	0.00453	0.00460

Passive power(pJ) for CKN falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFNSX1H7H	0.00426	0.00433	0.00441
	0.00001	0.00001	0.00002
	0.00001	0.00001	0.00001
	0.00347	0.00354	0.00361

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFNSX1H7H	0.00147	0.00148	0.00150
	0.00001	0.00002	0.00002
	-0.00002	-0.00002	-0.00001
	0.00212	0.00213	0.00214

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFNSX1H7H	0.00193	0.00196	0.00199
	-0.00002	-0.00002	-0.00001
	0.00001	0.00002	0.00002
	0.00130	0.00132	0.00134

Passive power(pJ) for SN rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFNSX1H7H	0.00050	0.00050	0.00051
	0.00005	0.00006	0.00006
	0.00000	0.00000	0.00000
	0.00130	0.00131	0.00131

Passive power(pJ) for SN falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFNSX1H7H	0.00020	0.00021	0.00022
	0.00001	0.00001	0.00001
	0.00000	0.00000	0.00000
	-0.00032	-0.00031	-0.00028

DFFNSX2H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Negative Edge Trigger D Flip-Flop with Async Set
Q = ! SN ? 1 : falling (CKN) ? D : pre_Q
QN = !Q

Truth Table

INPUT			OUTPUT	
CKN	D	SN	Q	QN
F	0	1	0	1
F	1	1	1	0
x	x	0	1	0
x	x	1	IQ	IQN

Footprint

Cell Name	Area
DFFNSX2H7H	9.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)	
	CKN	D	SN	Q	QN
DFFNSX2H7H	0.00125	0.00090	0.00090	0.05735	0.05734

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DFFNSX2H7H	0.00000	0.09397	0.11698

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFNSX2H7H	CKN->Q (FR)	SN	0.21754	0.39884	0.85024
	SN->Q (FR)	(CKN * D)	0.14864	0.33591	0.81007
	SN->Q (FR)	(CKN * !D)	0.15679	0.34675	0.83116
	SN->Q (FR)	(!CKN * D)	0.16882	0.36033	0.84874
	SN->Q (FR)	(!CKN * !D)	0.16882	0.36033	0.84874

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFNSX2H7H	CKN->Q (FF)	SN	0.20020	0.35766	0.74000

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFNSX2H7H	CKN->QN (FR)	SN	0.13876	0.34214	0.80941

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFNSX2H7H	CKN->QN (FF)	SN	0.16223	0.33524	0.72582
	SN->QN (FF)	(CKN * D)	0.09294	0.26924	0.68710
	SN->QN (FF)	(CKN * !D)	0.10015	0.27991	0.70699
	SN->QN (FF)	(!CKN * D)	0.10579	0.30097	0.75410
	SN->QN (FF)	(!CKN * !D)	0.10579	0.30098	0.75410

Constraint Information

Min Pulse Width (ns) for CKN:

Cell Name	High	Low
DFFNSX2H7H	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFNSX2H7H	**hold**	**CKN (F)**	-0.08533	0.05563	0.22380
	setup	**CKN (F)**	-0.18289	0.01187	0.21854

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFNSX2H7H	**hold**	**CKN (F)**	-0.21836	-0.06288	0.05357
	setup	**CKN (F)**	-0.01567	0.11774	0.30900

Constraints(ns) for SN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFNSX2H7H	**recovery**	**CKN (F)**	-0.16609	0.01763	0.25412
	removal	**CKN (F)**	0.15358	0.24566	0.46176

Min Pulse Width (ns) for SN:

Cell Name	High	Low
DFFNSX2H7H	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFNSX2H7H	CKN	SN	0.00304	0.00312	0.00318
	CKN	SN	-0.00005	-0.00003	-0.00002
	CKN	SN	0.00001	0.00001	0.00001
	CKN	SN	0.00250	0.00258	0.00264
	SN	(CKN * D)	0.00169	0.00178	0.00185
	SN	(CKN * D)	-0.00005	-0.00005	-0.00003
	SN	(CKN * D)	0.00004	0.00005	0.00006
	SN	(CKN * D)	0.00128	0.00137	0.00145
	SN	(CKN * !D)	0.00178	0.00185	0.00191
	SN	(CKN * !D)	-0.00008	-0.00006	-0.00004
	SN	(CKN * !D)	0.00005	0.00006	0.00007
	SN	(CKN * !D)	0.00133	0.00141	0.00148
	SN	(!CKN * D)	0.00244	0.00254	0.00262
	SN	(!CKN * D)	-0.00003	-0.00003	-0.00001
	SN	(!CKN * D)	0.00001	0.00002	0.00002
	SN	(!CKN * D)	0.00209	0.00218	0.00226
	SN	(!CKN * !D)	0.00244	0.00254	0.00262
	SN	(!CKN * !D)	-0.00003	-0.00003	-0.00003
	SN	(!CKN * !D)	0.00002	0.00002	0.00002
	SN	(!CKN * !D)	0.00209	0.00218	0.00226

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFNSX2H7H	CKN	SN	0.00282	0.00292	0.00300
	CKN	SN	0.00002	0.00003	0.00005
	CKN	SN	-0.00001	-0.00001	-0.00001
	CKN	SN	0.00249	0.00258	0.00266

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFNSX2H7H	CKN	SN	0.00282	0.00292	0.00300
	CKN	SN	0.00002	0.00003	0.00004
	CKN	SN	-0.00002	-0.00001	0.00000
	CKN	SN	0.00249	0.00258	0.00266

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFNSX2H7H	CKN	SN	0.00304	0.00312	0.00318
	CKN	SN	-0.00004	-0.00003	-0.00002
	CKN	SN	0.00000	0.00001	0.00002
	CKN	SN	0.00251	0.00258	0.00264
	SN	(CKN * D)	0.00169	0.00178	0.00185
	SN	(CKN * D)	-0.00006	-0.00005	-0.00004
	SN	(CKN * D)	0.00004	0.00005	0.00006
	SN	(CKN * D)	0.00128	0.00137	0.00144
	SN	(CKN * !D)	0.00178	0.00185	0.00191
	SN	(CKN * !D)	-0.00007	-0.00006	-0.00004
	SN	(CKN * !D)	0.00005	0.00006	0.00008
	SN	(CKN * !D)	0.00133	0.00141	0.00148
	SN	(!CKN * D)	0.00244	0.00254	0.00262
	SN	(!CKN * D)	-0.00005	-0.00003	-0.00002
	SN	(!CKN * D)	0.00001	0.00002	0.00003
	SN	(!CKN * D)	0.00208	0.00219	0.00226
	SN	(!CKN * !D)	0.00244	0.00254	0.00262
	SN	(!CKN * !D)	-0.00003	-0.00003	-0.00001
	SN	(!CKN * !D)	0.00001	0.00002	0.00003
	SN	(!CKN * !D)	0.00208	0.00218	0.00226

Passive power(pJ) for CKN rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFNSX2H7H	0.00363	0.00369	0.00376
	0.00003	0.00003	0.00004
	-0.00002	-0.00001	-0.00001
	0.00464	0.00469	0.00475

Passive power(pJ) for CKN falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFNSX2H7H	0.00447	0.00455	0.00464
	-0.00001	0.00000	0.00001
	0.00001	0.00001	0.00002
	0.00360	0.00367	0.00375

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFNSX2H7H	0.00153	0.00154	0.00156
	0.00000	0.00000	0.00001
	-0.00002	-0.00001	-0.00000
	0.00217	0.00218	0.00219

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFNSX2H7H	0.00197	0.00199	0.00202
	-0.00001	-0.00000	-0.00000
	0.00000	0.00001	0.00002
	0.00134	0.00136	0.00139

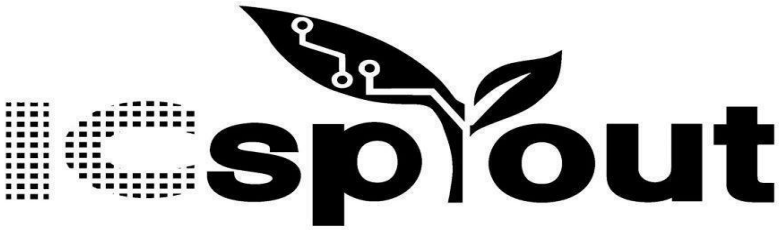
Passive power(pJ) for SN rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFNSX2H7H	0.00053	0.00053	0.00054
	0.00006	0.00007	0.00007
	0.00000	0.00000	0.00000
	0.00135	0.00135	0.00135

Passive power(pJ) for SN falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFNSX2H7H	0.00020	0.00021	0.00022
	0.00001	0.00002	0.00003
	0.00000	0.00000	0.00000
	-0.00032	-0.00030	-0.00029

DFFNX0P5H7H



tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Negative Edge Triggered D Flip-Flop
Q = falling (CKN) ? D : pre_Q
QN = !Q

Truth Table

INPUT		OUTPUT	
CKN	D	Q	QN
F	0	0	1
F	1	1	0
x	x	IQ	IQN

Footprint

Cell Name	Area
DFFNX0P5H7H	7.00000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)	
	CKN	D	Q	QN
DFFNX0P5H7H	0.00108	0.00085	0.04275	0.04283

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DFFNX0P5H7H	0.00000	0.06885	0.06885

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFNX0P5H7H	CKN->Q (FR)	0.14175	0.33252	0.79144

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFNX0P5H7H	CKN->Q (FF)	0.19362	0.36062	0.73939

Delay(ns) to QN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFNX0P5H7H	CKN->QN (FR)	0.24279	0.42094	0.86816

Delay(ns) to QN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFNX0P5H7H	CKN->QN (FF)	0.18720	0.33956	0.71505

Constraint Information

Min Pulse Width (ns) for CKN:

Cell Name	High	Low
DFFNX0P5H7H	0.9851	0.9851

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFNX0P5H7H	**hold**	**CKN (F)**	-0.15394	0.02907	0.21552
	setup	**CKN (F)**	-0.18690	0.02107	0.22174

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFNX0P5H7H	**hold**	**CKN (F)**	-0.19661	-0.05107	0.06557
	setup	**CKN (F)**	-0.05230	0.06925	0.23159

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFNX0P5H7H	CKN	0.00251	0.00258	0.00265
	CKN	0.00003	0.00004	0.00006
	CKN	-0.00004	-0.00003	-0.00002
	CKN	0.00219	0.00227	0.00233

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFNX0P5H7H	CKN	0.00255	0.00261	0.00266
	CKN	-0.00004	-0.00003	-0.00003
	CKN	0.00003	0.00004	0.00005
	CKN	0.00210	0.00216	0.00221

Internal switching power(pJ) to QN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFNX0P5H7H	CKN	0.00255	0.00261	0.00267
	CKN	-0.00004	-0.00003	-0.00003
	CKN	0.00002	0.00004	0.00004
	CKN	0.00209	0.00216	0.00221

Internal switching power(pJ) to QN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFNX0P5H7H	CKN	0.00251	0.00258	0.00265
	CKN	0.00004	0.00004	0.00006
	CKN	-0.00004	-0.00003	-0.00002
	CKN	0.00219	0.00227	0.00233

Passive power(pJ) for CKN rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFNX0P5H7H	0.00328	0.00336	0.00343
	-0.00001	-0.00000	0.00000
	0.00004	0.00005	0.00006
	0.00383	0.00390	0.00399

Passive power(pJ) for CKN falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFNX0P5H7H	0.00272	0.00276	0.00282
	0.00000	0.00000	0.00001
	-0.00001	0.00000	0.00000
	0.00192	0.00196	0.00202

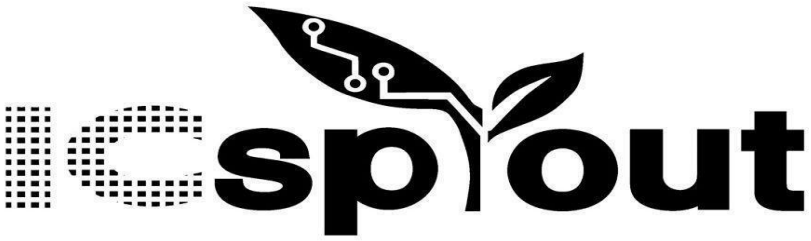
Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFNX0P5H7H	0.00121	0.00124	0.00126
	0.00003	0.00003	0.00004
	-0.00004	-0.00003	-0.00003
	0.00186	0.00190	0.00193

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFNX0P5H7H	0.00190	0.00193	0.00196
	-0.00004	-0.00003	-0.00003
	0.00003	0.00003	0.00004
	0.00124	0.00126	0.00129

DFFNX1H7H



tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Negative Edge Trigger D Flip-Flop
Q = falling (CKN) ? D : pre_Q
QN = !Q

Truth Table

INPUT		OUTPUT	
CKN	D	Q	QN
F	0	0	1
F	1	1	0
x	x	IQ	IQN

Footprint

Cell Name	Area
DFFNX1H7H	7.00000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)	
	CKN	D	Q	QN
DFFNX1H7H	0.00108	0.00085	0.04544	0.04537

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DFFNX1H7H	0.00000	0.07738	0.07738

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFNX1H7H	CKN->Q (FR)	0.14083	0.33206	0.79200

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFNX1H7H	CKN->Q (FF)	0.19225	0.35368	0.71682

Delay(ns) to QN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFNX1H7H	CKN->QN (FR)	0.24311	0.42105	0.86852

Delay(ns) to QN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFNX1H7H	CKN->QN (FF)	0.18536	0.33143	0.68995

Constraint Information

Min Pulse Width (ns) for CKN:

Cell Name	High	Low
DFFNX1H7H	0.9851	0.9851

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFNX1H7H	**hold**	**CKN (F)**	-0.15341	0.02993	0.21773
	setup	**CKN (F)**	-0.18747	0.02135	0.22233

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFNX1H7H	**hold**	**CKN (F)**	-0.19784	-0.05049	0.06852
	setup	**CKN (F)**	-0.05302	0.06967	0.23012

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFNX1H7H	CKN	0.00259	0.00267	0.00274
	CKN	0.00004	0.00005	0.00005
	CKN	-0.00004	-0.00003	-0.00002
	CKN	0.00228	0.00236	0.00242

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFNX1H7H	CKN	0.00264	0.00271	0.00277
	CKN	-0.00004	-0.00003	-0.00003
	CKN	0.00004	0.00004	0.00005
	CKN	0.00218	0.00226	0.00231

Internal switching power(pJ) to QN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFNX1H7H	CKN	0.00264	0.00271	0.00277
	CKN	-0.00005	-0.00003	-0.00002
	CKN	0.00003	0.00004	0.00005
	CKN	0.00218	0.00226	0.00231

Internal switching power(pJ) to QN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFNX1H7H	CKN	0.00259	0.00267	0.00274
	CKN	0.00004	0.00005	0.00006
	CKN	-0.00004	-0.00003	-0.00002
	CKN	0.00228	0.00235	0.00242

Passive power(pJ) for CKN rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFNX1H7H	0.00331	0.00340	0.00347
	-0.00001	-0.00001	-0.00000
	0.00004	0.00005	0.00006
	0.00386	0.00394	0.00401

Passive power(pJ) for CKN falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFNX1H7H	0.00274	0.00278	0.00283
	0.00000	0.00001	0.00001
	-0.00000	0.00000	0.00001
	0.00194	0.00199	0.00204

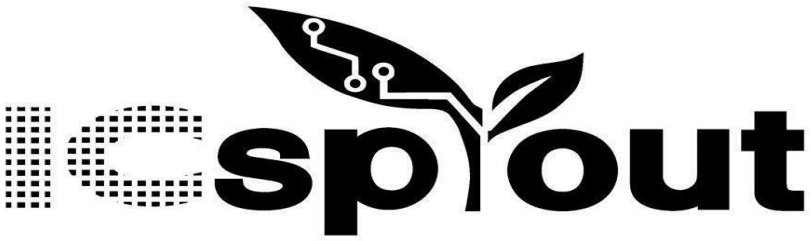
Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFNX1H7H	0.00123	0.00125	0.00128
	0.00003	0.00003	0.00004
	-0.00003	-0.00003	-0.00002
	0.00188	0.00191	0.00194

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFNX1H7H	0.00191	0.00194	0.00196
	-0.00004	-0.00003	-0.00003
	0.00002	0.00003	0.00003
	0.00125	0.00128	0.00131

DFFNX2H7H



tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Negative Edge Trigger D Flip-Flop
Q = falling (CKN) ? D : pre_Q
QN = !Q

Truth Table

INPUT		OUTPUT	
CKN	D	Q	QN
F	0	0	1
F	1	1	0
x	x	IQ	IQN

Footprint

Cell Name	Area
DFFNX2H7H	7.56000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)	
	CKN	D	Q	QN
DFFNX2H7H	0.00115	0.00085	0.06406	0.05671

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DFFNX2H7H	0.00000	0.10148	0.10148

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFNX2H7H	CKN->Q (FR)	0.13152	0.32393	0.78267

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFNX2H7H	CKN->Q (FF)	0.18384	0.36412	0.77369

Delay(ns) to QN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFNX2H7H	CKN->QN (FR)	0.23315	0.40817	0.84882

Delay(ns) to QN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFNX2H7H	CKN->QN (FF)	0.18050	0.33296	0.70923

Constraint Information

Min Pulse Width (ns) for CKN:

Cell Name	High	Low
DFFNX2H7H	0.9851	0.9851

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFNX2H7H	**hold**	**CKN (F)**	-0.16500	0.02035	0.20257
	setup	**CKN (F)**	-0.17996	0.02723	0.22856

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFNX2H7H	**hold**	**CKN (F)**	-0.20460	-0.05518	0.05798
	setup	**CKN (F)**	-0.04680	0.07438	0.23797

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFNX2H7H	CKN	0.00281	0.00290	0.00298
	CKN	0.00004	0.00005	0.00006
	CKN	-0.00005	-0.00003	-0.00002
	CKN	0.00248	0.00257	0.00264

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFNX2H7H	CKN	0.00285	0.00294	0.00300
	CKN	-0.00004	-0.00004	-0.00003
	CKN	0.00003	0.00004	0.00006
	CKN	0.00236	0.00246	0.00252

Internal switching power(pJ) to QN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFNX2H7H	CKN	0.00285	0.00294	0.00301
	CKN	-0.00005	-0.00004	-0.00002
	CKN	0.00003	0.00004	0.00005
	CKN	0.00237	0.00246	0.00252

Internal switching power(pJ) to QN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFNX2H7H	CKN	0.00281	0.00290	0.00297
	CKN	0.00005	0.00005	0.00005
	CKN	-0.00004	-0.00004	-0.00003
	CKN	0.00247	0.00257	0.00264

Passive power(pJ) for CKN rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFNX2H7H	0.00345	0.00354	0.00362
	-0.00002	-0.00001	-0.00000
	0.00003	0.00004	0.00005
	0.00405	0.00413	0.00422

Passive power(pJ) for CKN falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFNX2H7H	0.00285	0.00290	0.00295
	0.00000	0.00001	0.00002
	-0.00000	0.00000	0.00001
	0.00201	0.00206	0.00211

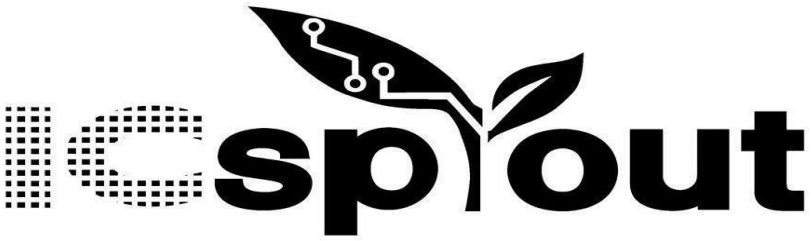
Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFNX2H7H	0.00130	0.00132	0.00135
	0.00002	0.00002	0.00003
	-0.00003	-0.00003	-0.00002
	0.00193	0.00196	0.00200

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFNX2H7H	0.00199	0.00201	0.00204
	-0.00003	-0.00002	-0.00002
	0.00002	0.00003	0.00003
	0.00135	0.00137	0.00139

DFFNX3H7H



tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Negative Edge Trigger D Flip-Flop
Q = falling (CKN) ? D : pre_Q
QN = !Q

Truth Table

INPUT		OUTPUT	
CKN	D	Q	QN
F	0	0	1
F	1	1	0
x	x	IQ	IQN

Footprint

Cell Name	Area
DFFNX3H7H	7.84000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)	
	CKN	D	Q	QN
DFFNX3H7H	0.00114	0.00091	0.09063	0.09080

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DFFNX3H7H	0.00000	0.10807	0.10807

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFNX3H7H	CKN->Q (FR)	0.13989	0.33471	0.79694

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFNX3H7H	CKN->Q (FF)	0.19063	0.36473	0.75204

Delay(ns) to QN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFNX3H7H	CKN->QN (FR)	0.25482	0.43024	0.87593

Delay(ns) to QN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFNX3H7H	CKN->QN (FF)	0.19834	0.35272	0.73338

Constraint Information

Min Pulse Width (ns) for CKN:

Cell Name	High	Low
DFFNX3H7H	0.9851	0.9851

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFNX3H7H	**hold**	**CKN (F)**	-0.15656	0.02755	0.21273
	setup	**CKN (F)**	-0.18975	0.01920	0.22171

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFNX3H7H	**hold**	**CKN (F)**	-0.19755	-0.05054	0.06530
	setup	**CKN (F)**	-0.05419	0.06824	0.23110

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFNX3H7H	CKN	0.00321	0.00334	0.00344
	CKN	0.00002	0.00005	0.00007
	CKN	-0.00006	-0.00004	-0.00002
	CKN	0.00288	0.00300	0.00311

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFNX3H7H	CKN	0.00323	0.00334	0.00343
	CKN	-0.00004	-0.00004	-0.00002
	CKN	0.00002	0.00004	0.00007
	CKN	0.00275	0.00286	0.00295

Internal switching power(pJ) to QN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFNX3H7H	CKN	0.00324	0.00334	0.00344
	CKN	-0.00004	-0.00004	-0.00001
	CKN	0.00002	0.00004	0.00005
	CKN	0.00275	0.00286	0.00295

Internal switching power(pJ) to QN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFNX3H7H	CKN	0.00321	0.00334	0.00344
	CKN	0.00005	0.00005	0.00006
	CKN	-0.00004	-0.00004	-0.00002
	CKN	0.00288	0.00300	0.00310

Passive power(pJ) for CKN rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFNX3H7H	0.00358	0.00367	0.00376
	-0.00001	-0.00000	0.00000
	0.00005	0.00006	0.00007
	0.00416	0.00424	0.00431

Passive power(pJ) for CKN falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFNX3H7H	0.00296	0.00301	0.00307
	0.00000	0.00000	0.00001
	-0.00001	-0.00000	0.00000
	0.00211	0.00216	0.00222

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFNX3H7H	0.00137	0.00139	0.00143
	0.00003	0.00004	0.00004
	-0.00005	-0.00004	-0.00003
	0.00207	0.00210	0.00214

Passive power(pJ) for D falling :

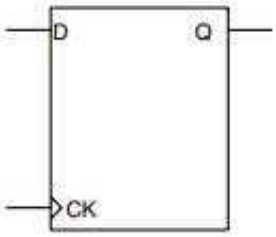
Cell Name	Power(pJ)		
	min	avg	max
DFFNX3H7H	0.00211	0.00214	0.00217
	-0.00004	-0.00004	-0.00003
	0.00003	0.00004	0.00005
	0.00140	0.00143	0.00144

DFFQX0P5H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The DFFQ cell is a positive edge-triggered, static D-type flip-flop. The cell has a single output (Q) .



Truth Table

INPUT		OUTPUT
CK	D	Q
R	0	0
R	1	1
x	x	IQ

Footprint

Cell Name	Area
DFFQX0P5H7H	6.16000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	CK	D	Q
DFFQX0P5H7H	0.00107	0.00084	0.04293

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DFFQX0P5H7H	0.00000	0.06393	0.06393

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFQX0P5H7H	CK->Q (RR)	0.16401	0.34898	0.78900

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFQX0P5H7H	CK->Q (RF)	0.12304	0.28505	0.65158

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
DFFQX0P5H7H	0.9851	0.9851

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFQX0P5H7H	**hold**	**CK (R)**	-0.18116	-0.04457	0.05656
	setup	**CK (R)**	-0.04221	0.06312	0.21495

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFQX0P5H7H	**hold**	**CK (R)**	-0.18427	-0.00132	0.17514
	setup	**CK (R)**	-0.14022	0.05701	0.26066

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFQX0P5H7H	CK	0.00378	0.00386	0.00394
	CK	0.00007	0.00007	0.00009
	CK	-0.00006	-0.00004	-0.00002
	CK	0.00465	0.00473	0.00481

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFQX0P5H7H	CK	0.00342	0.00352	0.00363
	CK	-0.00007	-0.00005	-0.00002
	CK	0.00005	0.00006	0.00007
	CK	0.00410	0.00421	0.00431

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFQX0P5H7H	0.00185	0.00190	0.00195
	-0.00000	0.00000	0.00001
	0.00000	0.00001	0.00001
	0.00261	0.00265	0.00271

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFQX0P5H7H	0.00393	0.00400	0.00408
	0.00005	0.00006	0.00007
	-0.00001	-0.00001	0.00000
	0.00336	0.00345	0.00354

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFQX0P5H7H	0.00128	0.00130	0.00132
	0.00003	0.00003	0.00004
	-0.00004	-0.00003	-0.00003
	0.00192	0.00194	0.00197

Passive power(pJ) for D falling :

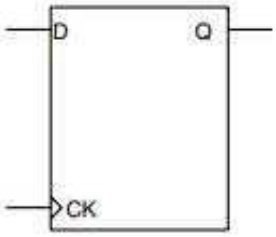
Cell Name	Power(pJ)		
	min	avg	max
DFFQX0P5H7H	0.00184	0.00186	0.00188
	-0.00003	-0.00003	-0.00003
	0.00003	0.00003	0.00004
	0.00119	0.00122	0.00125

DFFQX1H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The DFFQ cell is a positive edge-triggered, static D-type flip-flop. The cell has a single output (Q) .



Truth Table

INPUT		OUTPUT
CK	D	Q
R	0	0
R	1	1
x	x	IQ

Footprint

Cell Name	Area
DFFQX1H7H	6.16000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	CK	D	Q
DFFQX1H7H	0.00107	0.00084	0.05027

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DFFQX1H7H	0.00000	0.06568	0.06599

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFQX1H7H	CK->Q (RR)	0.16769	0.35346	0.79404

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFQX1H7H	CK->Q (RF)	0.12361	0.28831	0.65953

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
DFFQX1H7H	0.9851	0.9851

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFQX1H7H	**hold**	**CK (R)**	-0.17876	-0.04418	0.05637
	setup	**CK (R)**	-0.04460	0.06267	0.21225

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFQX1H7H	**hold**	**CK (R)**	-0.18278	0.00031	0.17691
	setup	**CK (R)**	-0.14036	0.05760	0.26161

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFQX1H7H	CK	0.00381	0.00389	0.00398
	CK	0.00006	0.00006	0.00010
	CK	-0.00004	-0.00004	-0.00001
	CK	0.00467	0.00475	0.00484

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFQX1H7H	CK	0.00344	0.00355	0.00366
	CK	-0.00006	-0.00004	-0.00003
	CK	0.00005	0.00005	0.00006
	CK	0.00414	0.00425	0.00436

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFQX1H7H	0.00182	0.00187	0.00192
	0.00000	0.00001	0.00001
	0.00000	0.00000	0.00001
	0.00258	0.00263	0.00269

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFQX1H7H	0.00398	0.00406	0.00415
	0.00005	0.00005	0.00006
	-0.00001	-0.00000	0.00000
	0.00341	0.00349	0.00357

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFQX1H7H	0.00129	0.00132	0.00134
	0.00003	0.00003	0.00003
	-0.00003	-0.00003	-0.00003
	0.00193	0.00196	0.00198

Passive power(pJ) for D falling :

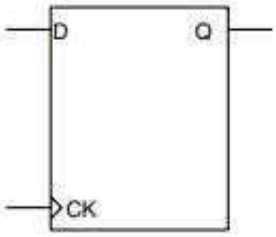
Cell Name	Power(pJ)		
	min	avg	max
DFFQX1H7H	0.00185	0.00188	0.00191
	-0.00003	-0.00003	-0.00003
	0.00003	0.00003	0.00003
	0.00121	0.00124	0.00126

DFFQX2H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The DFFQ cell is a positive edge-triggered, static D-type flip-flop. The cell has a single output (Q) .



Truth Table

INPUT		OUTPUT
CK	D	Q
R	0	0
R	1	1
x	x	IQ

Footprint

Cell Name	Area
DFFQX2H7H	6.44000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	CK	D	Q
DFFQX2H7H	0.00108	0.00085	0.05728

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DFFQX2H7H	0.00000	0.07009	0.07294

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFQX2H7H	CK->Q (RR)	0.16936	0.35622	0.79750

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFQX2H7H	CK->Q (RF)	0.12596	0.29291	0.66743

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
DFFQX2H7H	0.9851	0.9851

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFQX2H7H	**hold**	**CK (R)**	-0.17981	-0.04453	0.05905
	setup	**CK (R)**	-0.04313	0.06307	0.21463

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFQX2H7H	**hold**	**CK (R)**	-0.18435	0.00107	0.17502
	setup	**CK (R)**	-0.14316	0.05713	0.26120

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFQX2H7H	CK	0.00396	0.00405	0.00415
	CK	0.00006	0.00007	0.00009
	CK	-0.00005	-0.00004	-0.00001
	CK	0.00482	0.00492	0.00501

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFQX2H7H	CK	0.00360	0.00372	0.00383
	CK	-0.00006	-0.00003	0.00000
	CK	0.00004	0.00005	0.00006
	CK	0.00431	0.00443	0.00455

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFQX2H7H	0.00183	0.00187	0.00193
	0.00001	0.00001	0.00001
	-0.00000	0.00000	0.00001
	0.00259	0.00264	0.00269

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFQX2H7H	0.00427	0.00434	0.00441
	-0.00001	-0.00001	-0.00001
	0.00004	0.00005	0.00006
	0.00327	0.00333	0.00341

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFQX2H7H	0.00130	0.00132	0.00134
	0.00003	0.00003	0.00004
	-0.00003	-0.00003	-0.00003
	0.00194	0.00197	0.00199

Passive power(pJ) for D falling :

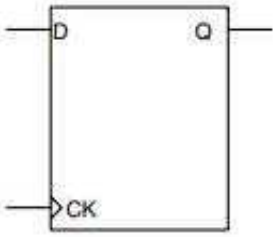
Cell Name	Power(pJ)		
	min	avg	max
DFFQX2H7H	0.00186	0.00189	0.00191
	-0.00004	-0.00003	-0.00003
	0.00003	0.00003	0.00003
	0.00122	0.00124	0.00127

DFFQX3H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The DFFQ cell is a positive edge-triggered, static D-type flip-flop. The cell has a single output (Q) .



Truth Table

INPUT		OUTPUT
CK	D	Q
R	0	0
R	1	1
x	x	IQ

Footprint

Cell Name	Area
DFFQX3H7H	6.72000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	CK	D	Q
DFFQX3H7H	0.00111	0.00087	0.09058

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DFFQX3H7H	0.00000	0.07527	0.07527

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFQX3H7H	CK->Q (RR)	0.17316	0.36394	0.80581

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFQX3H7H	CK->Q (RF)	0.13744	0.30923	0.68403

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
DFFQX3H7H	0.9851	0.9851

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFQX3H7H	**hold**	**CK (R)**	-0.18075	-0.04492	0.05348
	setup	**CK (R)**	-0.04252	0.06277	0.21152

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFQX3H7H	**hold**	**CK (R)**	-0.18026	0.00114	0.17235
	setup	**CK (R)**	-0.14440	0.05302	0.25594

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFQX3H7H	CK	0.00430	0.00443	0.00454
	CK	0.00000	0.00003	0.00003
	CK	-0.00003	-0.00001	0.00003
	CK	0.00511	0.00524	0.00536

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFQX3H7H	CK	0.00400	0.00415	0.00430
	CK	-0.00003	-0.00001	0.00003
	CK	0.00001	0.00002	0.00005
	CK	0.00478	0.00494	0.00508

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFQX3H7H	0.00187	0.00192	0.00197
	0.00000	0.00000	0.00001
	-0.00001	0.00000	0.00001
	0.00265	0.00270	0.00276

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFQX3H7H	0.00432	0.00439	0.00446
	-0.00001	-0.00000	0.00000
	0.00005	0.00006	0.00007
	0.00329	0.00335	0.00345

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFQX3H7H	0.00128	0.00131	0.00133
	0.00004	0.00004	0.00005
	-0.00004	-0.00004	-0.00004
	0.00196	0.00199	0.00202

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFQX3H7H	0.00189	0.00192	0.00195
	-0.00005	-0.00004	-0.00004
	0.00004	0.00004	0.00004
	0.00121	0.00123	0.00126

DFFRQNX1H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

D Flip-Flop with Async Clear, Single Output QN
QN = !RN ? 1 : rising (CK) ? !D : pre_QN

Truth Table

INPUT			OUTPUT
CK	D	RN	QN
R	0	1	1
R	1	1	0
x	x	0	1
x	x	1	IQN

Footprint

Cell Name	Area
DFFRQNX1H7H	7.84000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	CK	**D**	**RN**	**QN**
DFFRQNX1H7H	0.00105	0.00099	0.00153	0.04144

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
DFFRQNX1H7H	0.00000	0.06242	0.07369

Delay Information

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFRQNX1H7H	CK->QN (RR)	-	0.17255	0.35418	0.79965
	RN->QN (FR)	(CK * D)	0.17635	0.36523	0.83901
	RN->QN (FR)	(CK * !D)	0.17636	0.36521	0.83887
	RN->QN (FR)	(!CK * D)	0.19571	0.37987	0.84412
	RN->QN (FR)	(!CK * !D)	0.20050	0.38611	0.85406

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFRQNX1H7H	CK->QN (RF)	-	0.23237	0.38159	0.73365

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
DFFRQNX1H7H	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFRQNX1H7H	**hold**	**CK (R)**	-0.13165	0.01310	0.18295
	setup	**CK (R)**	-0.12249	0.07300	0.23314

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFRQNX1H7H	**hold**	**CK (R)**	-0.21318	-0.06856	0.04828
	setup	**CK (R)**	-0.01681	0.10562	0.25958

Min Pulse Width (ns) for RN:

Cell Name	High	Low
DFFRQNX1H7H	-	0.9851

Constraints(ns) for RN rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFRQNX1H7H	**hold**	**CK (R)**	-0.03610	0.11579	0.30561
	setup	**CK (R)**	-0.25181	-0.03560	0.19733

Power Information

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFRQNX1H7H	CK	-	0.00377	0.00390	0.00401
	CK	-	-0.00007	-0.00005	-0.00004
	CK	-	0.00005	0.00005	0.00006
	CK	-	0.00436	0.00449	0.00460
	RN	(CK * D)	0.00379	0.00393	0.00404
	RN	(CK * D)	-0.00007	-0.00004	0.00002
	RN	(CK * D)	-0.00009	-0.00003	-0.00003
	RN	(CK * D)	0.00279	0.00293	0.00305
	RN	(CK * !D)	0.00379	0.00393	0.00404
	RN	(CK * !D)	-0.00011	-0.00005	0.00002
	RN	(CK * !D)	-0.00008	-0.00003	0.00001
	RN	(CK * !D)	0.00279	0.00293	0.00305
	RN	(!CK * D)	0.00355	0.00364	0.00373
	RN	(!CK * D)	-0.00024	-0.00021	-0.00021
	RN	(!CK * D)	0.00017	0.00019	0.00020
	RN	(!CK * D)	0.00205	0.00214	0.00223
	RN	(!CK * !D)	0.00260	0.00269	0.00277
	RN	(!CK * !D)	-0.00013	-0.00010	-0.00009
	RN	(!CK * !D)	0.00006	0.00008	0.00010
	RN	(!CK * !D)	0.00149	0.00158	0.00165

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFRQNX1H7H	CK	-	0.00384	0.00392	0.00399
	CK	-	0.00004	0.00005	0.00007
	CK	-	-0.00006	-0.00005	-0.00005
	CK	-	0.00478	0.00485	0.00492

Passive power(pJ) for CK rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
DFFRQNX1H7H	(D * RN)	0.00181	0.00186	0.00190
	(D * RN)	0.00000	0.00001	0.00001
	(D * RN)	-0.00001	-0.00001	-0.00000
	(D * RN)	0.00261	0.00266	0.00272
	(D * !RN)	0.00246	0.00251	0.00257
	(D * !RN)	0.00007	0.00008	0.00009
	(D * !RN)	-0.00014	-0.00013	-0.00013
	(D * !RN)	0.00351	0.00357	0.00363
	(!D * RN)	0.00174	0.00179	0.00184
	(!D * RN)	-0.00000	-0.00000	0.00000
	(!D * RN)	0.00000	0.00000	0.00000
	(!D * RN)	0.00255	0.00259	0.00265
	(!D * !RN)	0.00174	0.00179	0.00184
	(!D * !RN)	-0.00001	-0.00000	0.00000
	(!D * !RN)	-0.00002	-0.00001	-0.00001
	(!D * !RN)	0.00254	0.00258	0.00264

Passive power(pJ) for CK falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
DFFRQNX1H7H	(D * RN)	0.00420	0.00427	0.00433
	(D * RN)	-0.00000	-0.00000	0.00000
	(D * RN)	0.00009	0.00009	0.00009
	(D * RN)	0.00341	0.00348	0.00355
	(D * !RN)	0.00342	0.00348	0.00355
	(D * !RN)	-0.00009	-0.00008	-0.00007
	(D * !RN)	0.00013	0.00013	0.00014
	(D * !RN)	0.00237	0.00243	0.00249
	(!D * RN)	0.00434	0.00442	0.00450
	(!D * RN)	0.00000	0.00000	0.00000
	(!D * RN)	0.00000	0.00000	0.00000
	(!D * RN)	0.00351	0.00359	0.00367
	(!D * !RN)	0.00268	0.00273	0.00279
	(!D * !RN)	0.00000	0.00001	0.00001
	(!D * !RN)	0.00001	0.00002	0.00002
	(!D * !RN)	0.00189	0.00194	0.00199

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
DFFRQNX1H7H	(CK * RN)	0.00002	0.00004	0.00008
	(CK * RN)	0.00003	0.00004	0.00004
	(CK * RN)	-0.00005	-0.00004	-0.00004
	(CK * RN)	0.00081	0.00084	0.00087
	(CK * !RN)	0.00002	0.00005	0.00008
	(CK * !RN)	0.00003	0.00004	0.00004
	(CK * !RN)	-0.00004	-0.00004	-0.00004
	(CK * !RN)	0.00081	0.00084	0.00087
	(!CK * RN)	0.00159	0.00162	0.00167
	(!CK * RN)	0.00002	0.00003	0.00003
	(!CK * RN)	0.00002	0.00003	0.00003
	(!CK * RN)	0.00239	0.00242	0.00247
	(!CK * !RN)	0.00083	0.00086	0.00091
	(!CK * !RN)	-0.00008	-0.00008	-0.00008
	(!CK * !RN)	0.00011	0.00012	0.00012
	(!CK * !RN)	0.00128	0.00131	0.00136

Passive power(pJ) for D falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
DFFRQNX1H7H	(CK * RN)	0.00089	0.00092	0.00095
	(CK * RN)	-0.00004	-0.00004	-0.00003
	(CK * RN)	0.00004	0.00004	0.00005
	(CK * RN)	0.00010	0.00013	0.00015
	(CK * !RN)	0.00089	0.00092	0.00094
	(CK * !RN)	-0.00004	-0.00004	-0.00003
	(CK * !RN)	0.00004	0.00004	0.00005
	(CK * !RN)	0.00010	0.00013	0.00017
	(!CK * RN)	0.00263	0.00266	0.00271
	(!CK * RN)	-0.00003	-0.00003	-0.00002
	(!CK * RN)	-0.00003	-0.00003	-0.00002
	(!CK * RN)	0.00184	0.00186	0.00191
	(!CK * !RN)	0.00161	0.00163	0.00167
	(!CK * !RN)	0.00008	0.00008	0.00008
	(!CK * !RN)	-0.00012	-0.00012	-0.00011
	(!CK * !RN)	0.00116	0.00119	0.00123

Passive power(pJ) for RN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
DFFRQNX1H7H	(CK * D)	-0.00033	-0.00032	-0.00032
	(CK * D)	-0.00002	-0.00002	-0.00002
	(CK * D)	0.00000	0.00002	0.00002
	(CK * D)	0.00052	0.00052	0.00054
	(CK * !D)	-0.00033	-0.00032	-0.00032
	(CK * !D)	-0.00002	-0.00002	-0.00001
	(CK * !D)	0.00001	0.00002	0.00002
	(CK * !D)	0.00052	0.00052	0.00053
	(!CK * D)	0.00028	0.00030	0.00033
	(!CK * D)	0.00008	0.00009	0.00010
	(!CK * D)	-0.00010	-0.00009	-0.00008
	(!CK * D)	0.00153	0.00155	0.00158
	(!CK * !D)	-0.00037	-0.00037	-0.00037
	(!CK * !D)	-0.00002	-0.00002	-0.00000
	(!CK * !D)	0.00002	0.00002	0.00002
	(!CK * !D)	0.00047	0.00047	0.00048

Passive power(pJ) for RN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
DFFRQNX1H7H	(CK * D)	0.00033	0.00033	0.00034
	(CK * D)	0.00002	0.00002	0.00002
	(CK * D)	-0.00002	-0.00002	-0.00000
	(CK * D)	-0.00052	-0.00051	-0.00049
	(CK * !D)	0.00033	0.00033	0.00034
	(CK * !D)	0.00001	0.00002	0.00002
	(CK * !D)	-0.00002	-0.00002	-0.00001
	(CK * !D)	-0.00052	-0.00051	-0.00049
	(!CK * D)	0.00131	0.00133	0.00135
	(!CK * D)	-0.00009	-0.00009	-0.00007
	(!CK * D)	0.00009	0.00009	0.00010
	(!CK * D)	0.00006	0.00009	0.00013
	(!CK * !D)	0.00037	0.00038	0.00039
	(!CK * !D)	0.00000	0.00002	0.00002
	(!CK * !D)	-0.00002	-0.00002	-0.00002
	(!CK * !D)	-0.00047	-0.00046	-0.00045

DFFRQNX2H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

D Flip-Flop with Async Clear, Single Output QN
QN = !RN ? 1 : rising (CK) ? !D : pre_QN

Truth Table

INPUT			OUTPUT
CK	D	RN	QN
R	0	1	1
R	1	1	0
x	x	0	1
x	x	1	IQN

Footprint

Cell Name	Area
DFFRQNX2H7H	8.12000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	CK	**D**	**RN**	**QN**
DFFRQNX2H7H	0.00105	0.00099	0.00151	0.05478

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
DFFRQNX2H7H	0.00000	0.06044	0.06995

Delay Information

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFRQNX2H7H	CK->QN (RR)	-	0.17490	0.35724	0.80321
	RN->QN (FR)	(CK * D)	0.17876	0.36838	0.84272
	RN->QN (FR)	(CK * !D)	0.17877	0.36840	0.84310
	RN->QN (FR)	(!CK * D)	0.19928	0.38438	0.85014
	RN->QN (FR)	(!CK * !D)	0.20407	0.39060	0.86005

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFRQNX2H7H	CK->QN (RF)	-	0.23235	0.37261	0.69738

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
DFFRQNX2H7H	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFRQNX2H7H	**hold**	**CK (R)**	-0.13155	0.01311	0.18224
	setup	**CK (R)**	-0.12273	0.07330	0.23293

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFRQNX2H7H	**hold**	**CK (R)**	-0.21562	-0.06855	0.05113
	setup	**CK (R)**	-0.01695	0.10546	0.25953

Min Pulse Width (ns) for RN:

Cell Name	High	Low
DFFRQNX2H7H	-	0.9851

Constraints(ns) for RN rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFRQNX2H7H	**hold**	**CK (R)**	-0.04010	0.11570	0.30586
	setup	**CK (R)**	-0.25449	-0.03605	0.19751

Power Information

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFRQNX2H7H	CK	-	0.00398	0.00414	0.00427
	CK	-	-0.00006	-0.00006	-0.00006
	CK	-	0.00005	0.00006	0.00010
	CK	-	0.00456	0.00471	0.00484
	RN	(CK * D)	0.00399	0.00416	0.00430
	RN	(CK * D)	-0.00008	-0.00006	-0.00006
	RN	(CK * D)	-0.00003	-0.00002	-0.00002
	RN	(CK * D)	0.00299	0.00314	0.00329
	RN	(CK * !D)	0.00399	0.00416	0.00430
	RN	(CK * !D)	-0.00007	-0.00006	-0.00004
	RN	(CK * !D)	-0.00003	-0.00002	-0.00002
	RN	(CK * !D)	0.00298	0.00314	0.00329
	RN	(!CK * D)	0.00376	0.00387	0.00399
	RN	(!CK * D)	-0.00023	-0.00022	-0.00022
	RN	(!CK * D)	0.00020	0.00020	0.00020
	RN	(!CK * D)	0.00225	0.00236	0.00247
	RN	(!CK * !D)	0.00282	0.00293	0.00303
	RN	(!CK * !D)	-0.00011	-0.00011	-0.00011
	RN	(!CK * !D)	0.00009	0.00009	0.00009
	RN	(!CK * !D)	0.00169	0.00180	0.00190

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFRQNX2H7H	CK	-	0.00413	0.00422	0.00430
	CK	-	0.00006	0.00006	0.00006
	CK	-	-0.00010	-0.00006	-0.00005
	CK	-	0.00508	0.00517	0.00525

Passive power(pJ) for CK rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
DFFRQNX2H7H	(D * RN)	0.00180	0.00185	0.00190
	(D * RN)	0.00000	0.00001	0.00001
	(D * RN)	-0.00001	-0.00001	-0.00000
	(D * RN)	0.00261	0.00265	0.00270
	(D * !RN)	0.00245	0.00251	0.00256
	(D * !RN)	0.00008	0.00008	0.00009
	(D * !RN)	-0.00013	-0.00013	-0.00012
	(D * !RN)	0.00350	0.00356	0.00362
	(!D * RN)	0.00174	0.00179	0.00184
	(!D * RN)	-0.00000	-0.00000	0.00000
	(!D * RN)	0.00000	0.00000	0.00000
	(!D * RN)	0.00254	0.00259	0.00265
	(!D * !RN)	0.00174	0.00179	0.00184
	(!D * !RN)	-0.00000	-0.00000	0.00000
	(!D * !RN)	-0.00002	-0.00001	-0.00001
	(!D * !RN)	0.00254	0.00258	0.00264

Passive power(pJ) for CK falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
DFFRQNX2H7H	(D * RN)	0.00419	0.00427	0.00434
	(D * RN)	-0.00001	-0.00000	0.00000
	(D * RN)	0.00009	0.00009	0.00010
	(D * RN)	0.00340	0.00347	0.00353
	(D * !RN)	0.00342	0.00348	0.00355
	(D * !RN)	-0.00009	-0.00008	-0.00008
	(D * !RN)	0.00012	0.00013	0.00013
	(D * !RN)	0.00237	0.00244	0.00251
	(!D * RN)	0.00433	0.00441	0.00449
	(!D * RN)	-0.00000	0.00000	0.00001
	(!D * RN)	0.00000	0.00000	0.00000
	(!D * RN)	0.00350	0.00359	0.00367
	(!D * !RN)	0.00268	0.00273	0.00279
	(!D * !RN)	-0.00000	0.00000	0.00001
	(!D * !RN)	0.00001	0.00002	0.00002
	(!D * !RN)	0.00189	0.00193	0.00199

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
DFFRQNX2H7H	(CK * RN)	0.00002	0.00004	0.00008
	(CK * RN)	0.00003	0.00004	0.00004
	(CK * RN)	-0.00005	-0.00004	-0.00004
	(CK * RN)	0.00081	0.00084	0.00087
	(CK * !RN)	0.00002	0.00004	0.00008
	(CK * !RN)	0.00003	0.00004	0.00004
	(CK * !RN)	-0.00005	-0.00004	-0.00004
	(CK * !RN)	0.00081	0.00084	0.00087
	(!CK * RN)	0.00159	0.00162	0.00167
	(!CK * RN)	0.00002	0.00003	0.00003
	(!CK * RN)	0.00003	0.00003	0.00004
	(!CK * RN)	0.00239	0.00242	0.00247
	(!CK * !RN)	0.00083	0.00086	0.00091
	(!CK * !RN)	-0.00009	-0.00008	-0.00008
	(!CK * !RN)	0.00012	0.00012	0.00013
	(!CK * !RN)	0.00128	0.00131	0.00136

Passive power(pJ) for D falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
DFFRQNX2H7H	(CK * RN)	0.00090	0.00092	0.00096
	(CK * RN)	-0.00004	-0.00004	-0.00003
	(CK * RN)	0.00004	0.00004	0.00005
	(CK * RN)	0.00010	0.00013	0.00016
	(CK * !RN)	0.00090	0.00092	0.00096
	(CK * !RN)	-0.00004	-0.00004	-0.00003
	(CK * !RN)	0.00004	0.00004	0.00005
	(CK * !RN)	0.00010	0.00013	0.00016
	(!CK * RN)	0.00262	0.00265	0.00270
	(!CK * RN)	-0.00003	-0.00003	-0.00002
	(!CK * RN)	-0.00004	-0.00003	-0.00003
	(!CK * RN)	0.00183	0.00186	0.00190
	(!CK * !RN)	0.00161	0.00163	0.00168
	(!CK * !RN)	0.00008	0.00008	0.00009
	(!CK * !RN)	-0.00013	-0.00012	-0.00011
	(!CK * !RN)	0.00116	0.00118	0.00121

Passive power(pJ) for RN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
DFFRQNX2H7H	(CK * D)	-0.00032	-0.00032	-0.00032
	(CK * D)	-0.00002	-0.00002	-0.00001
	(CK * D)	0.00000	0.00002	0.00002
	(CK * D)	0.00052	0.00052	0.00053
	(CK * !D)	-0.00033	-0.00032	-0.00032
	(CK * !D)	-0.00002	-0.00002	-0.00000
	(CK * !D)	0.00001	0.00002	0.00002
	(CK * !D)	0.00052	0.00052	0.00053
	(!CK * D)	0.00028	0.00030	0.00033
	(!CK * D)	0.00009	0.00010	0.00010
	(!CK * D)	-0.00010	-0.00010	-0.00009
	(!CK * D)	0.00152	0.00154	0.00158
	(!CK * !D)	-0.00037	-0.00036	-0.00036
	(!CK * !D)	-0.00003	-0.00002	-0.00002
	(!CK * !D)	0.00002	0.00002	0.00002
	(!CK * !D)	0.00047	0.00047	0.00047

Passive power(pJ) for RN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
DFFRQNX2H7H	(CK * D)	0.00032	0.00033	0.00034
	(CK * D)	0.00001	0.00002	0.00002
	(CK * D)	-0.00002	-0.00002	-0.00000
	(CK * D)	-0.00052	-0.00051	-0.00050
	(CK * !D)	0.00032	0.00033	0.00034
	(CK * !D)	0.00001	0.00002	0.00002
	(CK * !D)	-0.00002	-0.00002	-0.00001
	(CK * !D)	-0.00052	-0.00051	-0.00049
	(!CK * D)	0.00130	0.00132	0.00134
	(!CK * D)	-0.00009	-0.00009	-0.00007
	(!CK * D)	0.00009	0.00010	0.00010
	(!CK * D)	0.00007	0.00009	0.00013
	(!CK * !D)	0.00036	0.00037	0.00037
	(!CK * !D)	0.00002	0.00002	0.00003
	(!CK * !D)	-0.00002	-0.00002	-0.00002
	(!CK * !D)	-0.00047	-0.00046	-0.00044

DFFRQX0P5H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

D Flip-Flop with Async Clear, Single Output
Q = !RN ? 0 : rising (CK) ? D : pre_Q

Truth Table

INPUT			OUTPUT
CK	D	RN	Q
R	0	1	0
R	1	1	1
x	x	0	0
x	x	1	IQ

Footprint

Cell Name	Area
DFFRQX0P5H7H	7.84000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	CK	D	RN	Q
DFFRQX0P5H7H	0.00109	0.00115	0.00169	0.04244

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DFFRQX0P5H7H	0.00000	0.07580	0.09036

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFRQX0P5H7H	CK->Q (RR)	RN	0.17116	0.36546	0.81278

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFRQX0P5H7H	CK->Q (RF)	RN	0.13715	0.30412	0.67880
	RN->Q (FF)	(CK * D)	0.06917	0.22776	0.60529
	RN->Q (FF)	(CK * !D)	0.06917	0.22776	0.60521
	RN->Q (FF)	(!CK * D)	0.08391	0.25206	0.64625
	RN->Q (FF)	(!CK * !D)	0.08700	0.25596	0.65294

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
DFFRQX0P5H7H	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFRQX0P5H7H	**hold**	**CK (R)**	-0.11690	0.02241	0.18745
	setup	**CK (R)**	-0.12826	0.06138	0.21950

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFRQX0P5H7H	**hold**	**CK (R)**	-0.19746	-0.06339	0.04846
	setup	**CK (R)**	-0.01519	0.10535	0.25018

Constraints(ns) for RN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFRQX0P5H7H	**recovery**	**CK (R)**	-0.24054	-0.02446	0.22559
	removal	**CK (R)**	-0.09640	0.08248	0.27154

Min Pulse Width (ns) for RN:

Cell Name	High	Low
DFFRQX0P5H7H	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFRQX0P5H7H	CK	RN	0.00384	0.00389	0.00396
	CK	RN	0.00003	0.00003	0.00003
	CK	RN	-0.00001	-0.00000	0.00000
	CK	RN	0.00477	0.00483	0.00489

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFRQX0P5H7H	CK	RN	0.00379	0.00392	0.00403
	CK	RN	-0.00003	-0.00003	-0.00003
	CK	RN	0.00000	0.00000	0.00001
	CK	RN	0.00449	0.00461	0.00473
	RN	(CK * D)	0.00413	0.00427	0.00440
	RN	(CK * D)	-0.00006	-0.00004	-0.00000
	RN	(CK * D)	-0.00007	-0.00006	-0.00006
	RN	(CK * D)	0.00303	0.00317	0.00329
	RN	(CK * !D)	0.00413	0.00427	0.00440
	RN	(CK * !D)	-0.00009	-0.00004	-0.00001
	RN	(CK * !D)	-0.00010	-0.00007	-0.00006
	RN	(CK * !D)	0.00303	0.00317	0.00329
	RN	(!CK * D)	0.00361	0.00370	0.00379
	RN	(!CK * D)	-0.00026	-0.00019	-0.00016
	RN	(!CK * D)	0.00016	0.00016	0.00017
	RN	(!CK * D)	0.00203	0.00212	0.00221
	RN	(!CK * !D)	0.00256	0.00263	0.00270
	RN	(!CK * !D)	-0.00007	-0.00005	-0.00003
	RN	(!CK * !D)	0.00000	0.00002	0.00007
	RN	(!CK * !D)	0.00145	0.00152	0.00160

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFRQX0P5H7H	0.00264	0.00271	0.00278
	0.00008	0.00010	0.00010
	0.00000	0.00000	0.00000
	0.00374	0.00381	0.00387

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFRQX0P5H7H	0.00461	0.00469	0.00477
	-0.00000	0.00001	0.00002
	0.00000	0.00000	0.00000
	0.00376	0.00384	0.00393

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFRQX0P5H7H	0.00181	0.00185	0.00190
	0.00003	0.00004	0.00005
	0.00000	0.00001	0.00002
	0.00276	0.00279	0.00284

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFRQX0P5H7H	0.00290	0.00293	0.00298
	-0.00005	-0.00004	-0.00003
	-0.00001	-0.00001	-0.00000
	0.00195	0.00198	0.00202

Passive power(pJ) for RN rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFRQX0P5H7H	0.00030	0.00033	0.00036
	0.00012	0.00013	0.00013
	-0.00014	-0.00013	-0.00012
	0.00172	0.00175	0.00178

Passive power(pJ) for RN falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFRQX0P5H7H	0.00146	0.00149	0.00153
	-0.00013	-0.00013	-0.00012
	0.00012	0.00013	0.00014
	0.00006	0.00008	0.00011

DFFRQX1H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

D Flip-Flop with Async Clear, Single Output
Q = !RN ? 0 : rising (CK) ? D : pre_Q

Truth Table

INPUT			OUTPUT
CK	D	RN	Q
R	0	1	0
R	1	1	1
x	x	0	0
x	x	1	IQ

Footprint

Cell Name	Area
DFFRQX1H7H	7.84000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	CK	D	RN	Q
DFFRQX1H7H	0.00109	0.00123	0.00169	0.04976

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DFFRQX1H7H	0.00000	0.08272	0.10778

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFRQX1H7H	CK->Q (RR)	RN	0.17047	0.36641	0.81477

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFRQX1H7H	CK->Q (RF)	RN	0.13780	0.30801	0.68803
	RN->Q (FF)	(CK * D)	0.07001	0.23156	0.61542
	RN->Q (FF)	(CK * !D)	0.07001	0.23156	0.61542
	RN->Q (FF)	(!CK * D)	0.08577	0.25746	0.65887
	RN->Q (FF)	(!CK * !D)	0.08889	0.26134	0.66544

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
DFFRQX1H7H	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFRQX1H7H	**hold**	**CK (R)**	-0.11054	0.02743	0.18897
	setup	**CK (R)**	-0.13093	0.05724	0.21319

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFRQX1H7H	**hold**	**CK (R)**	-0.19092	-0.05716	0.05135
	setup	**CK (R)**	-0.01869	0.09980	0.24323

Constraints(ns) for RN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFRQX1H7H	**recovery**	**CK (R)**	-0.23886	-0.02284	0.23120
	removal	**CK (R)**	-0.09845	0.08061	0.27179

Min Pulse Width (ns) for RN:

Cell Name	High	Low
DFFRQX1H7H	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFRQX1H7H	CK	RN	0.00390	0.00397	0.00404
	CK	RN	0.00000	0.00002	0.00002
	CK	RN	-0.00001	-0.00000	0.00000
	CK	RN	0.00483	0.00489	0.00496

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFRQX1H7H	CK	RN	0.00390	0.00402	0.00414
	CK	RN	-0.00002	-0.00002	0.00000
	CK	RN	0.00000	0.00000	0.00001
	CK	RN	0.00460	0.00473	0.00484
	RN	(CK * D)	0.00422	0.00437	0.00449
	RN	(CK * D)	-0.00007	-0.00003	-0.00003
	RN	(CK * D)	-0.00007	-0.00007	-0.00006
	RN	(CK * D)	0.00312	0.00326	0.00339
	RN	(CK * !D)	0.00422	0.00436	0.00450
	RN	(CK * !D)	-0.00003	-0.00003	0.00000
	RN	(CK * !D)	-0.00007	-0.00007	-0.00006
	RN	(CK * !D)	0.00312	0.00326	0.00339
	RN	(!CK * D)	0.00370	0.00379	0.00389
	RN	(!CK * D)	-0.00025	-0.00019	-0.00016
	RN	(!CK * D)	0.00015	0.00016	0.00017
	RN	(!CK * D)	0.00213	0.00222	0.00231
	RN	(!CK * !D)	0.00265	0.00272	0.00280
	RN	(!CK * !D)	-0.00006	-0.00004	0.00002
	RN	(!CK * !D)	-0.00000	0.00001	0.00002
	RN	(!CK * !D)	0.00155	0.00162	0.00170

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFRQX1H7H	0.00263	0.00270	0.00276
	0.00009	0.00009	0.00010
	0.00000	0.00000	0.00000
	0.00373	0.00380	0.00386

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFRQX1H7H	0.00463	0.00471	0.00480
	-0.00001	-0.00000	0.00001
	0.00000	0.00000	0.00000
	0.00377	0.00386	0.00394

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFRQX1H7H	0.00177	0.00180	0.00186
	0.00004	0.00005	0.00006
	-0.00000	0.00000	0.00001
	0.00279	0.00282	0.00288

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFRQX1H7H	0.00296	0.00299	0.00303
	-0.00006	-0.00005	-0.00004
	-0.00001	-0.00000	0.00000
	0.00194	0.00197	0.00203

Passive power(pJ) for RN rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFRQX1H7H	0.00031	0.00033	0.00036
	0.00012	0.00013	0.00013
	-0.00014	-0.00013	-0.00012
	0.00173	0.00175	0.00178

Passive power(pJ) for RN falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFRQX1H7H	0.00146	0.00149	0.00154
	-0.00013	-0.00013	-0.00012
	0.00012	0.00013	0.00014
	0.00005	0.00007	0.00012

DFFRQX2H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

D Flip-Flop with Async Clear, Single Output
Q = !RN ? 0 : rising (CK) ? D : pre_Q

Truth Table

INPUT			OUTPUT
CK	D	RN	Q
R	0	1	0
R	1	1	1
x	x	0	0
x	x	1	IQ

Footprint

Cell Name	Area
DFFRQX2H7H	7.84000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	CK	D	RN	Q
DFFRQX2H7H	0.00122	0.00119	0.00167	0.05641

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DFFRQX2H7H	0.00000	0.09444	0.12729

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFRQX2H7H	CK->Q (RR)	RN	0.16332	0.35823	0.80317

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFRQX2H7H	CK->Q (RF)	RN	0.14325	0.31787	0.69900
	RN->Q (FF)	(CK * D)	0.07666	0.24242	0.63774
	RN->Q (FF)	(CK * !D)	0.07666	0.24242	0.63762
	RN->Q (FF)	(!CK * D)	0.08976	0.26268	0.66939
	RN->Q (FF)	(!CK * !D)	0.09308	0.26690	0.67622

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
DFFRQX2H7H	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFRQX2H7H	**hold**	**CK (R)**	-0.11206	0.02465	0.18462
	setup	**CK (R)**	-0.12716	0.06062	0.21433

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFRQX2H7H	**hold**	**CK (R)**	-0.19912	-0.06294	0.04611
	setup	**CK (R)**	-0.00740	0.11524	0.26798

Constraints(ns) for RN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFRQX2H7H	**recovery**	**CK (R)**	-0.22762	-0.01401	0.25047
	removal	**CK (R)**	-0.10838	0.06994	0.25673

Min Pulse Width (ns) for RN:

Cell Name	High	Low
DFFRQX2H7H	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFRQX2H7H	CK	RN	0.00413	0.00420	0.00428
	CK	RN	0.00000	0.00002	0.00002
	CK	RN	0.00000	0.00000	0.00000
	CK	RN	0.00514	0.00521	0.00529

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFRQX2H7H	CK	RN	0.00403	0.00418	0.00431
	CK	RN	-0.00002	-0.00002	0.00000
	CK	RN	0.00000	0.00000	0.00000
	CK	RN	0.00486	0.00500	0.00513
	RN	(CK * D)	0.00422	0.00437	0.00451
	RN	(CK * D)	-0.00005	-0.00001	0.00002
	RN	(CK * D)	-0.00013	-0.00008	-0.00007
	RN	(CK * D)	0.00317	0.00332	0.00348
	RN	(CK * !D)	0.00422	0.00437	0.00451
	RN	(CK * !D)	-0.00005	-0.00002	-0.00001
	RN	(CK * !D)	-0.00014	-0.00008	-0.00007
	RN	(CK * !D)	0.00317	0.00332	0.00348
	RN	(!CK * D)	0.00376	0.00387	0.00399
	RN	(!CK * D)	-0.00019	-0.00017	-0.00012
	RN	(!CK * D)	0.00016	0.00016	0.00016
	RN	(!CK * D)	0.00223	0.00234	0.00245
	RN	(!CK * !D)	0.00272	0.00281	0.00291
	RN	(!CK * !D)	-0.00005	-0.00004	-0.00002
	RN	(!CK * !D)	-0.00003	0.00001	0.00001
	RN	(!CK * !D)	0.00164	0.00173	0.00183

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFRQX2H7H	0.00265	0.00272	0.00281
	0.00008	0.00009	0.00010
	0.00000	0.00000	0.00000
	0.00385	0.00391	0.00397

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFRQX2H7H	0.00473	0.00482	0.00491
	0.00001	0.00002	0.00003
	0.00000	0.00000	0.00000
	0.00379	0.00388	0.00398

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFRQX2H7H	0.00177	0.00181	0.00187
	0.00002	0.00003	0.00004
	0.00000	0.00000	0.00000
	0.00273	0.00277	0.00282

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFRQX2H7H	0.00285	0.00288	0.00292
	-0.00003	-0.00003	-0.00002
	0.00000	0.00000	0.00000
	0.00190	0.00193	0.00198

Passive power(pJ) for RN rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFRQX2H7H	0.00035	0.00037	0.00039
	0.00011	0.00012	0.00013
	-0.00013	-0.00012	-0.00011
	0.00174	0.00176	0.00179

Passive power(pJ) for RN falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFRQX2H7H	0.00141	0.00143	0.00145
	-0.00012	-0.00011	-0.00008
	0.00011	0.00012	0.00013
	0.00003	0.00006	0.00011

DFFRX0P5H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

D Flip-Flop with Async Clear
Q = !RN ? 0 : rising (CK) ? D : pre_Q
QN = !Q

Truth Table

INPUT			OUTPUT	
CK	D	RN	Q	QN
R	0	1	0	1
R	1	1	1	0
x	x	0	0	1
x	x	1	IQ	IQN

Footprint

Cell Name	Area
DFFRX0P5H7H	9.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)	
	CK	**D**	**RN**	**Q**	**QN**
DFFRX0P5H7H	0.00104	0.00090	0.00121	0.04271	0.04243

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
DFFRX0P5H7H	0.00000	0.07941	0.08117

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFRX0P5H7H	CK->Q (RR)	RN	0.23607	0.41334	0.85685

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFRX0P5H7H	CK->Q (RF)	RN	0.22462	0.37771	0.74742
	RN->Q (FF)	(CK * D)	0.15260	0.29492	0.62891
	RN->Q (FF)	(CK * !D)	0.15260	0.29493	0.62894
	RN->Q (FF)	(!CK * D)	0.14176	0.28322	0.61739
	RN->Q (FF)	(!CK * !D)	0.14013	0.28134	0.61476

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFRX0P5H7H	CK->QN (RR)	RN	0.17662	0.36729	0.81858
	RN->QN (FR)	(CK * D)	0.10361	0.28512	0.70250
	RN->QN (FR)	(CK * !D)	0.10361	0.28512	0.70255
	RN->QN (FR)	(!CK * D)	0.09743	0.27048	0.68202
	RN->QN (FR)	(!CK * !D)	0.09620	0.26870	0.68013

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFRX0P5H7H	CK->QN (RF)	RN	0.17221	0.35780	0.75211

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
DFFRX0P5H7H	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFRX0P5H7H	**hold**	**CK (R)**	-0.17029	-0.03553	0.07633
	setup	**CK (R)**	-0.03641	0.09364	0.26758

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFRX0P5H7H	**hold**	**CK (R)**	-0.11159	0.04430	0.22079
	setup	**CK (R)**	-0.17093	0.03272	0.25091

Constraints(ns) for RN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFRX0P5H7H	**recovery**	**CK (R)**	-0.11500	0.05323	0.20997
	removal	**CK (R)**	0.05094	0.17206	0.35443

Min Pulse Width (ns) for RN:

Cell Name	High	Low
DFFRX0P5H7H	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFRX0P5H7H	CK	RN	0.00241	0.00249	0.00256
	CK	RN	-0.00002	-0.00001	-0.00000
	CK	RN	0.00003	0.00003	0.00004
	CK	RN	0.00268	0.00276	0.00282

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFRX0P5H7H	CK	RN	0.00240	0.00245	0.00249
	CK	RN	0.00000	0.00001	0.00002
	CK	RN	-0.00004	-0.00003	-0.00003
	CK	RN	0.00286	0.00291	0.00296
	RN	(CK * D)	0.00270	0.00276	0.00281
	RN	(CK * D)	-0.00000	0.00001	0.00001
	RN	(CK * D)	-0.00001	0.00000	0.00000
	RN	(CK * D)	0.00230	0.00236	0.00241
	RN	(CK * !D)	0.00270	0.00276	0.00281
	RN	(CK * !D)	-0.00000	0.00001	0.00001
	RN	(CK * !D)	-0.00001	0.00000	0.00001
	RN	(CK * !D)	0.00230	0.00236	0.00241
	RN	(!CK * D)	0.00193	0.00198	0.00202
	RN	(!CK * D)	0.00003	0.00003	0.00004
	RN	(!CK * D)	-0.00005	-0.00004	-0.00002
	RN	(!CK * D)	0.00160	0.00165	0.00169
	RN	(!CK * !D)	0.00193	0.00198	0.00203
	RN	(!CK * !D)	0.00002	0.00003	0.00004
	RN	(!CK * !D)	-0.00005	-0.00003	-0.00002
	RN	(!CK * !D)	0.00159	0.00164	0.00169

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFRX0P5H7H	CK	RN	0.00240	0.00245	0.00250
	CK	RN	0.00000	0.00001	0.00002
	CK	RN	-0.00003	-0.00003	-0.00002
	CK	RN	0.00287	0.00291	0.00296
	RN	(CK * D)	0.00270	0.00276	0.00281
	RN	(CK * D)	-0.00002	0.00001	0.00002
	RN	(CK * D)	-0.00000	0.00000	0.00001
	RN	(CK * D)	0.00230	0.00236	0.00241
	RN	(CK * !D)	0.00270	0.00276	0.00281
	RN	(CK * !D)	-0.00001	0.00001	0.00003
	RN	(CK * !D)	-0.00000	0.00000	0.00001
	RN	(CK * !D)	0.00230	0.00236	0.00241
	RN	(!CK * D)	0.00193	0.00198	0.00202
	RN	(!CK * D)	0.00003	0.00003	0.00004
	RN	(!CK * D)	-0.00006	-0.00004	-0.00004
	RN	(!CK * D)	0.00160	0.00165	0.00169
	RN	(!CK * !D)	0.00192	0.00198	0.00203
	RN	(!CK * !D)	0.00002	0.00003	0.00003
	RN	(!CK * !D)	-0.00005	-0.00003	-0.00002
	RN	(!CK * !D)	0.00159	0.00164	0.00169

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFRX0P5H7H	CK	RN	0.00241	0.00249	0.00256
	CK	RN	-0.00002	-0.00001	0.00000
	CK	RN	0.00002	0.00003	0.00003
	CK	RN	0.00268	0.00276	0.00282

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFRX0P5H7H	0.00363	0.00370	0.00376
	0.00000	0.00000	0.00000
	0.00004	0.00004	0.00005
	0.00425	0.00432	0.00439

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFRX0P5H7H	0.00482	0.00490	0.00497
	0.00000	0.00000	0.00000
	0.00007	0.00007	0.00008
	0.00394	0.00402	0.00409

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFRX0P5H7H	0.00143	0.00145	0.00147
	0.00002	0.00003	0.00003
	-0.00004	-0.00004	-0.00003
	0.00214	0.00217	0.00220

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFRX0P5H7H	0.00198	0.00202	0.00204
	-0.00003	-0.00002	-0.00002
	0.00003	0.00004	0.00005
	0.00127	0.00130	0.00132

Passive power(pJ) for RN rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFRX0P5H7H	0.00125	0.00127	0.00131
	0.00000	0.00000	0.00000
	-0.00001	-0.00000	0.00000
	0.00197	0.00200	0.00202

Passive power(pJ) for RN falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFRX0P5H7H	0.00107	0.00110	0.00113
	0.00000	0.00000	0.00000
	0.00003	0.00003	0.00003
	0.00011	0.00014	0.00017

DFFRX1H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

D Flip-Flop with Async Clear
Q = !RN ? 0 : rising (CK) ? D : pre_Q
QN = !Q

Truth Table

INPUT			OUTPUT	
CK	D	RN	Q	QN
R	0	1	0	1
R	1	1	1	0
x	x	0	0	1
x	x	1	IQ	IQN

Footprint

Cell Name	Area
DFFRX1H7H	9.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)	
	CK	**D**	**RN**	**Q**	**QN**
DFFRX1H7H	0.00103	0.00090	0.00122	0.05012	0.04981

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
DFFRX1H7H	0.00000	0.09040	0.09421

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFRX1H7H	CK->Q (RR)	RN	0.23433	0.41168	0.85590

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFRX1H7H	CK->Q (RF)	RN	0.22379	0.37863	0.75289
	RN->Q (FF)	(CK * D)	0.14986	0.29424	0.63342
	RN->Q (FF)	(CK * !D)	0.14986	0.29424	0.63342
	RN->Q (FF)	(!CK * D)	0.13922	0.28268	0.62182
	RN->Q (FF)	(!CK * !D)	0.13776	0.28101	0.61955

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFRX1H7H	CK->QN (RR)	RN	0.17524	0.36655	0.81838
	RN->QN (FR)	(CK * D)	0.10090	0.28280	0.70108
	RN->QN (FR)	(CK * !D)	0.10090	0.28280	0.70109
	RN->QN (FR)	(!CK * D)	0.09483	0.26855	0.68126
	RN->QN (FR)	(!CK * !D)	0.09377	0.26696	0.67939

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFRX1H7H	CK->QN (RF)	RN	0.17102	0.35974	0.75916

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
DFFRX1H7H	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFRX1H7H	**hold**	**CK (R)**	-0.17367	-0.03590	0.07451
	setup	**CK (R)**	-0.03969	0.09338	0.26898

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFRX1H7H	**hold**	**CK (R)**	-0.11110	0.04525	0.22528
	setup	**CK (R)**	-0.17412	0.03266	0.25242

Constraints(ns) for RN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFRX1H7H	**recovery**	**CK (R)**	-0.11866	0.05137	0.20781
	removal	**CK (R)**	0.05123	0.17141	0.35090

Min Pulse Width (ns) for RN:

Cell Name	High	Low
DFFRX1H7H	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFRX1H7H	CK	RN	0.00250	0.00258	0.00265
	CK	RN	-0.00002	-0.00001	-0.00000
	CK	RN	0.00002	0.00003	0.00004
	CK	RN	0.00276	0.00284	0.00292

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFRX1H7H	CK	RN	0.00249	0.00256	0.00261
	CK	RN	0.00000	0.00001	0.00002
	CK	RN	-0.00004	-0.00003	-0.00002
	CK	RN	0.00297	0.00302	0.00307
	RN	(CK * D)	0.00280	0.00286	0.00292
	RN	(CK * D)	0.00000	0.00001	0.00002
	RN	(CK * D)	-0.00000	-0.00000	0.00001
	RN	(CK * D)	0.00241	0.00247	0.00253
	RN	(CK * !D)	0.00279	0.00286	0.00292
	RN	(CK * !D)	0.00001	0.00001	0.00003
	RN	(CK * !D)	-0.00001	-0.00000	0.00001
	RN	(CK * !D)	0.00241	0.00247	0.00253
	RN	(!CK * D)	0.00200	0.00206	0.00211
	RN	(!CK * D)	0.00002	0.00003	0.00004
	RN	(!CK * D)	-0.00005	-0.00004	-0.00002
	RN	(!CK * D)	0.00167	0.00173	0.00178
	RN	(!CK * !D)	0.00146	0.00205	0.00211
	RN	(!CK * !D)	0.00001	0.00005	0.00102
	RN	(!CK * !D)	-0.00005	-0.00004	0.00004
	RN	(!CK * !D)	0.00166	0.00173	0.00200

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFRX1H7H	CK	RN	0.00251	0.00256	0.00261
	CK	RN	0.00000	0.00001	0.00001
	CK	RN	-0.00004	-0.00003	-0.00001
	CK	RN	0.00296	0.00302	0.00307
	RN	(CK * D)	0.00280	0.00286	0.00292
	RN	(CK * D)	-0.00001	0.00001	0.00002
	RN	(CK * D)	-0.00001	-0.00000	0.00001
	RN	(CK * D)	0.00241	0.00247	0.00253
	RN	(CK * !D)	0.00279	0.00286	0.00292
	RN	(CK * !D)	-0.00000	0.00001	0.00003
	RN	(CK * !D)	-0.00001	-0.00000	0.00001
	RN	(CK * !D)	0.00241	0.00247	0.00253
	RN	(!CK * D)	0.00200	0.00206	0.00211
	RN	(!CK * D)	0.00003	0.00003	0.00005
	RN	(!CK * D)	-0.00007	-0.00004	-0.00002
	RN	(!CK * D)	0.00166	0.00173	0.00178
	RN	(!CK * !D)	0.00200	0.00206	0.00213
	RN	(!CK * !D)	0.00000	0.00003	0.00005
	RN	(!CK * !D)	-0.00006	-0.00004	-0.00003
	RN	(!CK * !D)	0.00166	0.00172	0.00177

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFRX1H7H	CK	RN	0.00250	0.00258	0.00265
	CK	RN	-0.00001	-0.00001	0.00000
	CK	RN	0.00001	0.00003	0.00004
	CK	RN	0.00276	0.00284	0.00291

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFRX1H7H	0.00371	0.00377	0.00384
	0.00000	0.00000	0.00000
	0.00004	0.00004	0.00005
	0.00433	0.00440	0.00446

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFRX1H7H	0.00485	0.00494	0.00502
	0.00000	0.00000	0.00000
	0.00006	0.00006	0.00007
	0.00399	0.00407	0.00414

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFRX1H7H	0.00147	0.00149	0.00151
	0.00002	0.00002	0.00002
	-0.00003	-0.00003	-0.00002
	0.00217	0.00220	0.00223

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFRX1H7H	0.00209	0.00210	0.00212
	-0.00002	-0.00002	-0.00002
	0.00002	0.00003	0.00003
	0.00137	0.00139	0.00142

Passive power(pJ) for RN rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFRX1H7H	0.00129	0.00132	0.00136
	0.00000	0.00000	0.00000
	0.00000	0.00001	0.00001
	0.00201	0.00203	0.00206

Passive power(pJ) for RN falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFRX1H7H	0.00107	0.00110	0.00114
	0.00000	0.00000	0.00000
	0.00002	0.00003	0.00004
	0.00011	0.00014	0.00019

DFFRX2H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

D Flip-Flop with Async Clear
Q = !RN ? 0 : rising (CK) ? D : pre_Q
QN = !Q

Truth Table

INPUT			OUTPUT	
CK	D	RN	Q	QN
R	0	1	0	1
R	1	1	1	0
x	x	0	0	1
x	x	1	IQ	IQN

Footprint

Cell Name	Area
DFFRX2H7H	10.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)	
	CK	**D**	**RN**	**Q**	**QN**
DFFRX2H7H	0.00116	0.00095	0.00128	0.06330	0.05740

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
DFFRX2H7H	0.00000	0.11907	0.13332

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFRX2H7H	CK->Q (RR)	RN	0.23802	0.41548	0.86066

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFRX2H7H	CK->Q (RF)	RN	0.21616	0.36745	0.73076
	RN->Q (FF)	(CK * D)	0.15125	0.29088	0.61597
	RN->Q (FF)	(CK * !D)	0.15126	0.29088	0.61603
	RN->Q (FF)	(!CK * D)	0.13908	0.27801	0.60331
	RN->Q (FF)	(!CK * !D)	0.13777	0.27647	0.60109

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFRX2H7H	CK->QN (RR)	RN	0.16267	0.35545	0.81129
	RN->QN (FR)	(CK * D)	0.09684	0.27890	0.69788
	RN->QN (FR)	(CK * !D)	0.09685	0.27890	0.69795
	RN->QN (FR)	(!CK * D)	0.09034	0.26448	0.67827
	RN->QN (FR)	(!CK * !D)	0.08946	0.26302	0.67656

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFRX2H7H	CK->QN (RF)	RN	0.16573	0.35591	0.76072

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
DFFRX2H7H	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFRX2H7H	**hold**	**CK (R)**	-0.17126	-0.03468	0.07494
	setup	**CK (R)**	-0.03956	0.09116	0.26571

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFRX2H7H	**hold**	**CK (R)**	-0.12224	0.03489	0.21056
	setup	**CK (R)**	-0.16054	0.04181	0.26263

Constraints(ns) for RN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFRX2H7H	**recovery**	**CK (R)**	-0.12346	0.04415	0.19892
	removal	**CK (R)**	0.04654	0.16364	0.34503

Min Pulse Width (ns) for RN:

Cell Name	High	Low
DFFRX2H7H	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFRX2H7H	CK	RN	0.00277	0.00288	0.00297
	CK	RN	-0.00003	-0.00001	0.00000
	CK	RN	0.00002	0.00003	0.00003
	CK	RN	0.00310	0.00320	0.00329

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFRX2H7H	CK	RN	0.00283	0.00290	0.00297
	CK	RN	0.00000	0.00001	0.00003
	CK	RN	-0.00003	-0.00003	-0.00002
	CK	RN	0.00335	0.00343	0.00349
	RN	(CK * D)	0.00314	0.00322	0.00329
	RN	(CK * D)	0.00000	0.00002	0.00004
	RN	(CK * D)	-0.00002	-0.00001	0.00001
	RN	(CK * D)	0.00272	0.00281	0.00287
	RN	(CK * !D)	0.00314	0.00322	0.00329
	RN	(CK * !D)	-0.00000	0.00002	0.00003
	RN	(CK * !D)	-0.00002	-0.00001	0.00001
	RN	(CK * !D)	0.00272	0.00281	0.00287
	RN	(!CK * D)	0.00232	0.00239	0.00245
	RN	(!CK * D)	0.00003	0.00003	0.00004
	RN	(!CK * D)	-0.00004	-0.00004	-0.00003
	RN	(!CK * D)	0.00196	0.00203	0.00209
	RN	(!CK * !D)	0.00232	0.00239	0.00246
	RN	(!CK * !D)	0.00001	0.00002	0.00004
	RN	(!CK * !D)	-0.00004	-0.00004	-0.00002
	RN	(!CK * !D)	0.00195	0.00202	0.00209

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFRX2H7H	CK	RN	0.00282	0.00290	0.00297
	CK	RN	0.00000	0.00001	0.00003
	CK	RN	-0.00005	-0.00003	-0.00001
	CK	RN	0.00335	0.00343	0.00349
	RN	(CK * D)	0.00314	0.00322	0.00330
	RN	(CK * D)	-0.00000	0.00002	0.00004
	RN	(CK * D)	-0.00002	-0.00001	0.00001
	RN	(CK * D)	0.00272	0.00281	0.00288
	RN	(CK * !D)	0.00314	0.00322	0.00329
	RN	(CK * !D)	-0.00001	0.00002	0.00004
	RN	(CK * !D)	-0.00002	-0.00001	0.00001
	RN	(CK * !D)	0.00272	0.00281	0.00287
	RN	(!CK * D)	0.00231	0.00239	0.00246
	RN	(!CK * D)	0.00002	0.00003	0.00006
	RN	(!CK * D)	-0.00007	-0.00004	-0.00002
	RN	(!CK * D)	0.00194	0.00203	0.00209
	RN	(!CK * !D)	0.00231	0.00239	0.00246
	RN	(!CK * !D)	0.00001	0.00003	0.00005
	RN	(!CK * !D)	-0.00006	-0.00004	-0.00003
	RN	(!CK * !D)	0.00195	0.00202	0.00209

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFRX2H7H	CK	RN	0.00277	0.00287	0.00297
	CK	RN	-0.00003	-0.00001	0.00000
	CK	RN	0.00001	0.00003	0.00005
	CK	RN	0.00310	0.00320	0.00329

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFRX2H7H	0.00390	0.00397	0.00403
	0.00000	0.00000	0.00000
	0.00003	0.00003	0.00004
	0.00465	0.00473	0.00481

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFRX2H7H	0.00525	0.00533	0.00540
	0.00000	0.00000	0.00000
	0.00005	0.00006	0.00006
	0.00427	0.00435	0.00443

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFRX2H7H	0.00148	0.00151	0.00153
	0.00000	0.00001	0.00001
	-0.00003	-0.00002	-0.00001
	0.00220	0.00223	0.00226

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFRX2H7H	0.00217	0.00218	0.00221
	-0.00001	-0.00001	-0.00000
	0.00001	0.00002	0.00003
	0.00144	0.00145	0.00148

Passive power(pJ) for RN rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFRX2H7H	0.00131	0.00133	0.00138
	0.00000	0.00000	0.00000
	-0.00001	-0.00000	0.00000
	0.00206	0.00209	0.00213

Passive power(pJ) for RN falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFRX2H7H	0.00115	0.00118	0.00123
	0.00000	0.00000	0.00000
	0.00004	0.00004	0.00004
	0.00012	0.00015	0.00019

DFFRX3H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

D Flip-Flop with Async Clear
Q = !RN ? 0 : rising (CK) ? D : pre_Q
QN = !Q

Truth Table

INPUT			OUTPUT	
CK	D	RN	Q	QN
R	0	1	0	1
R	1	1	1	0
x	x	0	0	1
x	x	1	IQ	IQN

Footprint

Cell Name	Area
DFFRX3H7H	10.92000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)	
	CK	**D**	**RN**	**Q**	**QN**
DFFRX3H7H	0.00117	0.00093	0.00125	0.09132	0.09001

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
DFFRX3H7H	0.00000	0.12950	0.13226

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFRX3H7H	CK->Q (RR)	RN	0.25991	0.43553	0.88355

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFRX3H7H	CK->Q (RF)	RN	0.22499	0.38160	0.76052
	RN->Q (FF)	(CK * D)	0.16148	0.30694	0.64890
	RN->Q (FF)	(CK * !D)	0.16148	0.30694	0.64890
	RN->Q (FF)	(!CK * D)	0.14765	0.29256	0.63460
	RN->Q (FF)	(!CK * !D)	0.14657	0.29129	0.63298

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFRX3H7H	CK->QN (RR)	RN	0.16437	0.35923	0.81542
	RN->QN (FR)	(CK * D)	0.09941	0.28424	0.70439
	RN->QN (FR)	(CK * !D)	0.09941	0.28424	0.70424
	RN->QN (FR)	(!CK * D)	0.09276	0.26930	0.68395
	RN->QN (FR)	(!CK * !D)	0.09223	0.26817	0.68264

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFRX3H7H	CK->QN (RF)	RN	0.17327	0.37043	0.77997

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
DFFRX3H7H	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFRX3H7H	**hold**	**CK (R)**	-0.16589	-0.03048	0.08165
	setup	**CK (R)**	-0.04479	0.08827	0.26442

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFRX3H7H	**hold**	**CK (R)**	-0.12227	0.03888	0.21923
	setup	**CK (R)**	-0.17319	0.03429	0.25566

Constraints(ns) for RN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFRX3H7H	**recovery**	**CK (R)**	-0.12984	0.04240	0.19669
	removal	**CK (R)**	0.04289	0.16473	0.34740

Min Pulse Width (ns) for RN:

Cell Name	High	Low
DFFRX3H7H	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFRX3H7H	CK	RN	0.00311	0.00324	0.00334
	CK	RN	-0.00003	-0.00002	-0.00000
	CK	RN	0.00002	0.00004	0.00004
	CK	RN	0.00343	0.00355	0.00366

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFRX3H7H	CK	RN	0.00321	0.00330	0.00339
	CK	RN	0.00000	0.00002	0.00003
	CK	RN	-0.00004	-0.00004	-0.00002
	CK	RN	0.00373	0.00383	0.00392
	RN	(CK * D)	0.00351	0.00361	0.00370
	RN	(CK * D)	0.00002	0.00002	0.00003
	RN	(CK * D)	-0.00002	-0.00001	0.00000
	RN	(CK * D)	0.00311	0.00322	0.00331
	RN	(CK * !D)	0.00350	0.00361	0.00370
	RN	(CK * !D)	0.00002	0.00002	0.00003
	RN	(CK * !D)	-0.00002	-0.00001	0.00000
	RN	(CK * !D)	0.00310	0.00322	0.00331
	RN	(!CK * D)	0.00259	0.00270	0.00278
	RN	(!CK * D)	0.00001	0.00004	0.00005
	RN	(!CK * D)	-0.00005	-0.00004	-0.00004
	RN	(!CK * D)	0.00226	0.00236	0.00244
	RN	(!CK * !D)	0.00260	0.00270	0.00279
	RN	(!CK * !D)	0.00000	0.00003	0.00003
	RN	(!CK * !D)	-0.00004	-0.00004	-0.00004
	RN	(!CK * !D)	0.00224	0.00235	0.00243

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFRX3H7H	CK	RN	0.00319	0.00330	0.00339
	CK	RN	0.00000	0.00002	0.00004
	CK	RN	-0.00005	-0.00004	-0.00002
	CK	RN	0.00373	0.00383	0.00391
	RN	(CK * D)	0.00350	0.00361	0.00370
	RN	(CK * D)	-0.00001	0.00002	0.00003
	RN	(CK * D)	-0.00002	-0.00001	0.00000
	RN	(CK * D)	0.00311	0.00322	0.00331
	RN	(CK * !D)	0.00349	0.00361	0.00370
	RN	(CK * !D)	0.00000	0.00002	0.00004
	RN	(CK * !D)	-0.00002	-0.00001	-0.00001
	RN	(CK * !D)	0.00311	0.00322	0.00331
	RN	(!CK * D)	0.00259	0.00270	0.00278
	RN	(!CK * D)	0.00001	0.00004	0.00006
	RN	(!CK * D)	-0.00007	-0.00005	-0.00002
	RN	(!CK * D)	0.00225	0.00236	0.00244
	RN	(!CK * !D)	0.00259	0.00270	0.00279
	RN	(!CK * !D)	-0.00001	0.00003	0.00006
	RN	(!CK * !D)	-0.00007	-0.00004	-0.00002
	RN	(!CK * !D)	0.00225	0.00235	0.00243

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFRX3H7H	CK	RN	0.00311	0.00323	0.00334
	CK	RN	-0.00003	-0.00002	0.00000
	CK	RN	0.00002	0.00004	0.00005
	CK	RN	0.00343	0.00355	0.00366

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFRX3H7H	0.00418	0.00425	0.00432
	0.00000	0.00000	0.00000
	0.00003	0.00003	0.00004
	0.00493	0.00501	0.00508

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFRX3H7H	0.00551	0.00560	0.00568
	0.00000	0.00000	0.00000
	0.00005	0.00006	0.00006
	0.00454	0.00462	0.00471

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFRX3H7H	0.00173	0.00176	0.00178
	0.00001	0.00002	0.00002
	-0.00003	-0.00002	-0.00002
	0.00244	0.00248	0.00251

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFRX3H7H	0.00217	0.00221	0.00224
	-0.00002	-0.00002	-0.00001
	0.00002	0.00002	0.00003
	0.00146	0.00149	0.00153

Passive power(pJ) for RN rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFRX3H7H	0.00156	0.00158	0.00162
	0.00000	0.00000	0.00000
	0.00001	0.00001	0.00001
	0.00226	0.00228	0.00231

Passive power(pJ) for RN falling :

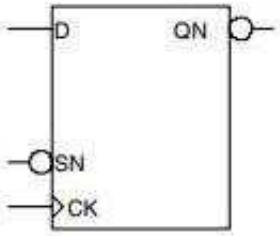
Cell Name	Power(pJ)		
	min	avg	max
DFFRX3H7H	0.00118	0.00121	0.00126
	0.00000	0.00000	0.00000
	0.00004	0.00004	0.00005
	0.00018	0.00021	0.00024

DFFSQNX1H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The DFFSQN cell is a positive edge-triggered, static D-type flip-flop with asynchronous active-low set (SN). The cell has a single inverted output (QN).



Truth Table

INPUT			OUTPUT
CK	D	SN	QN
R	0	1	1
R	1	1	0
x	x	0	0
x	x	1	IQN

Footprint

Cell Name	Area
DFFSQNX1H7H	8.12000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	CK	D	SN	QN
DFFSQNX1H7H	0.00102	0.00104	0.00088	0.04150

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DFFSQNX1H7H	0.00000	0.06696	0.07162

Delay Information

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFSQNX1H7H	CK->QN (RR)	-	0.21490	0.39418	0.83256

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFSQNX1H7H	CK->QN (RF)	-	0.20800	0.35515	0.70205
	SN->QN (FF)	(CK * D)	0.17567	0.31974	0.65726
	SN->QN (FF)	(CK * !D)	0.17567	0.31974	0.65726
	SN->QN (FF)	(!CK * D)	0.16035	0.30356	0.64037
	SN->QN (FF)	(!CK * !D)	0.16336	0.30705	0.64481

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
DFFSQNX1H7H	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFSQNX1H7H	**hold**	**CK (R)**	-0.11242	0.01907	0.17858
	setup	**CK (R)**	-0.12638	0.04389	0.18752

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFSQNX1H7H	**hold**	**CK (R)**	-0.19916	-0.07121	0.03105
	setup	**CK (R)**	0.00121	0.13245	0.28107

Min Pulse Width (ns) for SN:

Cell Name	High	Low
DFFSQNX1H7H	-	0.9851

Constraints(ns) for SN rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFSQNX1H7H	**hold**	**CK (R)**	-0.13137	0.02092	0.19659
	setup	**CK (R)**	-0.08660	0.08482	0.24139

Power Information

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFSQNX1H7H	CK	-	0.00360	0.00370	0.00380
	CK	-	-0.00005	-0.00005	-0.00003
	CK	-	0.00006	0.00007	0.00008
	CK	-	0.00414	0.00424	0.00434

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFSQNX1H7H	CK	-	0.00347	0.00352	0.00357
	CK	-	0.00003	0.00005	0.00005
	CK	-	-0.00008	-0.00007	-0.00006
	CK	-	0.00433	0.00440	0.00445
	SN	(CK * D)	0.00440	0.00448	0.00457
	SN	(CK * D)	-0.00001	0.00002	0.00005
	SN	(CK * D)	-0.00005	-0.00002	-0.00000
	SN	(CK * D)	0.00383	0.00391	0.00400
	SN	(CK * !D)	0.00440	0.00448	0.00457
	SN	(CK * !D)	-0.00000	0.00002	0.00005
	SN	(CK * !D)	-0.00005	-0.00002	0.00000
	SN	(CK * !D)	0.00383	0.00391	0.00400
	SN	(!CK * D)	0.00303	0.00311	0.00320
	SN	(!CK * D)	0.00008	0.00008	0.00011
	SN	(!CK * D)	-0.00010	-0.00010	-0.00009
	SN	(!CK * D)	0.00260	0.00268	0.00277
	SN	(!CK * !D)	0.00306	0.00314	0.00322
	SN	(!CK * !D)	0.00009	0.00010	0.00010
	SN	(!CK * !D)	-0.00011	-0.00010	-0.00009
	SN	(!CK * !D)	0.00265	0.00273	0.00281

Passive power(pJ) for CK rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
DFFSQNX1H7H	(D * SN)	0.00153	0.00157	0.00161
	(D * SN)	0.00000	0.00000	0.00000
	(D * SN)	-0.00001	-0.00001	0.00000
	(D * SN)	0.00223	0.00227	0.00231
	(D * !SN)	0.00149	0.00153	0.00158
	(D * !SN)	-0.00000	-0.00000	0.00000
	(D * !SN)	-0.00001	-0.00001	-0.00000
	(D * !SN)	0.00220	0.00224	0.00229
	(!D * SN)	0.00166	0.00170	0.00174
	(!D * SN)	-0.00001	-0.00000	0.00001
	(!D * SN)	0.00000	0.00000	0.00000
	(!D * SN)	0.00238	0.00242	0.00248
	(!D * !SN)	0.00300	0.00305	0.00311
	(!D * !SN)	-0.00001	-0.00000	0.00000
	(!D * !SN)	0.00003	0.00004	0.00004
	(!D * !SN)	0.00366	0.00372	0.00378

Passive power(pJ) for CK falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
DFFSQNX1H7H	(D * SN)	0.00397	0.00404	0.00410
	(D * SN)	0.00000	0.00000	0.00000
	(D * SN)	0.00006	0.00007	0.00007
	(D * SN)	0.00316	0.00322	0.00329
	(D * !SN)	0.00249	0.00253	0.00258
	(D * !SN)	-0.00000	0.00000	0.00000
	(D * !SN)	0.00000	0.00001	0.00001
	(D * !SN)	0.00178	0.00181	0.00187
	(!D * SN)	0.00356	0.00362	0.00369
	(!D * SN)	0.00005	0.00006	0.00006
	(!D * SN)	0.00000	0.00000	0.00000
	(!D * SN)	0.00296	0.00302	0.00309
	(!D * !SN)	0.00256	0.00262	0.00267
	(!D * !SN)	0.00011	0.00012	0.00012
	(!D * !SN)	-0.00004	-0.00004	-0.00003
	(!D * !SN)	0.00207	0.00213	0.00220

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
DFFSQNX1H7H	(CK * SN)	-0.00004	-0.00002	0.00002
	(CK * SN)	0.00005	0.00005	0.00006
	(CK * SN)	-0.00005	-0.00005	-0.00004
	(CK * SN)	0.00077	0.00080	0.00084
	(CK * !SN)	-0.00004	-0.00001	0.00001
	(CK * !SN)	0.00005	0.00005	0.00006
	(CK * !SN)	-0.00005	-0.00004	-0.00004
	(CK * !SN)	0.00077	0.00080	0.00083
	(!CK * SN)	0.00154	0.00157	0.00160
	(!CK * SN)	0.00000	0.00000	0.00001
	(!CK * SN)	0.00000	0.00001	0.00001
	(!CK * SN)	0.00225	0.00228	0.00231
	(!CK * !SN)	0.00163	0.00166	0.00170
	(!CK * !SN)	-0.00001	-0.00001	-0.00000
	(!CK * !SN)	0.00000	0.00000	0.00001
	(!CK * !SN)	0.00233	0.00236	0.00241

Passive power(pJ) for D falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
DFFSQNX1H7H	(CK * SN)	0.00091	0.00093	0.00096
	(CK * SN)	-0.00006	-0.00005	-0.00005
	(CK * SN)	0.00004	0.00005	0.00005
	(CK * SN)	0.00009	0.00012	0.00014
	(CK * !SN)	0.00091	0.00093	0.00096
	(CK * !SN)	-0.00006	-0.00005	-0.00005
	(CK * !SN)	0.00004	0.00004	0.00005
	(CK * !SN)	0.00010	0.00012	0.00015
	(!CK * SN)	0.00220	0.00222	0.00225
	(!CK * SN)	-0.00000	0.00000	0.00001
	(!CK * SN)	-0.00001	-0.00001	-0.00000
	(!CK * SN)	0.00149	0.00152	0.00155
	(!CK * !SN)	0.00131	0.00133	0.00137
	(!CK * !SN)	0.00008	0.00009	0.00010
	(!CK * !SN)	-0.00001	-0.00000	0.00000
	(!CK * !SN)	0.00078	0.00080	0.00084

Passive power(pJ) for SN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
DFFSQNX1H7H	(CK * D)	0.00006	0.00008	0.00012
	(CK * D)	0.00003	0.00003	0.00003
	(CK * D)	-0.00003	-0.00002	-0.00002
	(CK * D)	0.00074	0.00076	0.00078
	(CK * !D)	0.00006	0.00008	0.00012
	(CK * !D)	0.00003	0.00003	0.00003
	(CK * !D)	-0.00003	-0.00002	-0.00002
	(CK * !D)	0.00074	0.00076	0.00078
	(!CK * D)	0.00006	0.00008	0.00011
	(!CK * D)	0.00003	0.00003	0.00003
	(!CK * D)	-0.00003	-0.00003	-0.00002
	(!CK * D)	0.00074	0.00076	0.00079
	(!CK * !D)	0.00103	0.00105	0.00107
	(!CK * !D)	0.00000	0.00000	0.00000
	(!CK * !D)	0.00001	0.00001	0.00001
	(!CK * !D)	0.00153	0.00155	0.00158

Passive power(pJ) for SN falling (conditional):

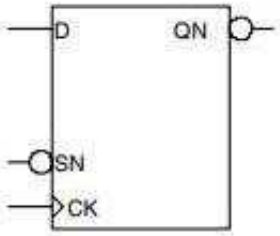
Cell Name	When	Power(pJ)		
		min	avg	max
DFFSQNX1H7H	(CK * D)	0.00093	0.00095	0.00099
	(CK * D)	-0.00003	-0.00003	-0.00003
	(CK * D)	0.00002	0.00003	0.00003
	(CK * D)	0.00025	0.00027	0.00030
	(CK * !D)	0.00093	0.00095	0.00099
	(CK * !D)	-0.00003	-0.00003	-0.00003
	(CK * !D)	0.00002	0.00003	0.00003
	(CK * !D)	0.00025	0.00027	0.00030
	(!CK * D)	0.00092	0.00094	0.00098
	(!CK * D)	-0.00003	-0.00003	-0.00003
	(!CK * D)	0.00002	0.00003	0.00003
	(!CK * D)	0.00024	0.00026	0.00029
	(!CK * !D)	0.00094	0.00096	0.00098
	(!CK * !D)	0.00000	0.00000	0.00000
	(!CK * !D)	0.00003	0.00003	0.00003
	(!CK * !D)	0.00026	0.00028	0.00031

DFFSQNX2H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The DFFSQN cell is a positive edge-triggered, static D-type flip-flop with asynchronous active-low set (SN). The cell has a single inverted output (QN).



Truth Table

INPUT			OUTPUT
CK	D	SN	QN
R	0	1	1
R	1	1	0
x	x	0	0
x	x	1	IQN

Footprint

Cell Name	Area
DFFSQNX2H7H	8.12000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	CK	D	SN	QN
DFFSQNX2H7H	0.00102	0.00120	0.00091	0.06105

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DFFSQNX2H7H	0.00000	0.08089	0.08522

Delay Information

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFSQNX2H7H	CK->QN (RR)	-	0.22091	0.40257	0.84344

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFSQNX2H7H	CK->QN (RF)	-	0.21216	0.35863	0.69918
	SN->QN (FF)	(CK * D)	0.17086	0.31428	0.64618
	SN->QN (FF)	(CK * !D)	0.17087	0.31428	0.64624
	SN->QN (FF)	(!CK * D)	0.15774	0.30030	0.63077
	SN->QN (FF)	(!CK * !D)	0.15997	0.30307	0.63491

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
DFFSQNX2H7H	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFSQNX2H7H	**hold**	**CK (R)**	-0.09955	0.02729	0.18519
	setup	**CK (R)**	-0.13557	0.03411	0.17081

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFSQNX2H7H	**hold**	**CK (R)**	-0.18617	-0.06306	0.03995
	setup	**CK (R)**	-0.00530	0.12319	0.26755

Min Pulse Width (ns) for SN:

Cell Name	High	Low
DFFSQNX2H7H	-	0.9851

Constraints(ns) for SN rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFSQNX2H7H	**hold**	**CK (R)**	-0.13378	0.02033	0.20058
	setup	**CK (R)**	-0.08459	0.08500	0.24178

Power Information

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFSQNX2H7H	CK	-	0.00389	0.00402	0.00415
	CK	-	-0.00009	-0.00006	-0.00005
	CK	-	0.00008	0.00009	0.00010
	CK	-	0.00441	0.00455	0.00468

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFSQNX2H7H	CK	-	0.00384	0.00394	0.00402
	CK	-	0.00005	0.00006	0.00009
	CK	-	-0.00010	-0.00009	-0.00008
	CK	-	0.00474	0.00484	0.00491
	SN	(CK * D)	0.00482	0.00493	0.00504
	SN	(CK * D)	0.00000	0.00003	0.00006
	SN	(CK * D)	-0.00006	-0.00004	-0.00002
	SN	(CK * D)	0.00423	0.00436	0.00447
	SN	(CK * !D)	0.00482	0.00493	0.00505
	SN	(CK * !D)	-0.00000	0.00003	0.00005
	SN	(CK * !D)	-0.00006	-0.00004	-0.00002
	SN	(CK * !D)	0.00423	0.00436	0.00447
	SN	(!CK * D)	0.00345	0.00356	0.00367
	SN	(!CK * D)	0.00006	0.00009	0.00012
	SN	(!CK * D)	-0.00012	-0.00012	-0.00010
	SN	(!CK * D)	0.00301	0.00313	0.00324
	SN	(!CK * !D)	0.00347	0.00358	0.00370
	SN	(!CK * !D)	0.00008	0.00010	0.00013
	SN	(!CK * !D)	-0.00015	-0.00012	-0.00011
	SN	(!CK * !D)	0.00307	0.00317	0.00327

Passive power(pJ) for CK rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
DFFSQNX2H7H	(D * SN)	0.00153	0.00157	0.00162
	(D * SN)	0.00000	0.00000	0.00000
	(D * SN)	-0.00001	-0.00001	-0.00000
	(D * SN)	0.00223	0.00227	0.00231
	(D * !SN)	0.00149	0.00153	0.00158
	(D * !SN)	-0.00000	0.00000	0.00001
	(D * !SN)	-0.00001	-0.00000	-0.00000
	(D * !SN)	0.00221	0.00225	0.00230
	(!D * SN)	0.00166	0.00170	0.00174
	(!D * SN)	-0.00001	-0.00000	0.00001
	(!D * SN)	0.00000	0.00000	0.00000
	(!D * SN)	0.00238	0.00242	0.00248
	(!D * !SN)	0.00300	0.00305	0.00311
	(!D * !SN)	-0.00001	-0.00001	-0.00000
	(!D * !SN)	0.00004	0.00004	0.00005
	(!D * !SN)	0.00366	0.00371	0.00377

Passive power(pJ) for CK falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
DFFSQNX2H7H	(D * SN)	0.00400	0.00407	0.00413
	(D * SN)	0.00000	0.00000	0.00000
	(D * SN)	0.00007	0.00007	0.00008
	(D * SN)	0.00319	0.00325	0.00333
	(D * !SN)	0.00252	0.00256	0.00260
	(D * !SN)	-0.00000	0.00000	0.00000
	(D * !SN)	0.00000	0.00001	0.00001
	(D * !SN)	0.00180	0.00184	0.00189
	(!D * SN)	0.00358	0.00365	0.00372
	(!D * SN)	0.00006	0.00006	0.00007
	(!D * SN)	0.00000	0.00000	0.00000
	(!D * SN)	0.00298	0.00305	0.00312
	(!D * !SN)	0.00259	0.00264	0.00271
	(!D * !SN)	0.00011	0.00012	0.00012
	(!D * !SN)	-0.00005	-0.00004	-0.00004
	(!D * !SN)	0.00210	0.00216	0.00222

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
DFFSQNX2H7H	(CK * SN)	-0.00008	-0.00005	-0.00001
	(CK * SN)	0.00006	0.00006	0.00007
	(CK * SN)	-0.00007	-0.00006	-0.00006
	(CK * SN)	0.00088	0.00090	0.00094
	(CK * !SN)	-0.00008	-0.00005	-0.00002
	(CK * !SN)	0.00006	0.00007	0.00008
	(CK * !SN)	-0.00006	-0.00006	-0.00005
	(CK * !SN)	0.00088	0.00091	0.00095
	(!CK * SN)	0.00152	0.00155	0.00160
	(!CK * SN)	0.00001	0.00002	0.00002
	(!CK * SN)	-0.00000	0.00000	0.00001
	(!CK * SN)	0.00236	0.00239	0.00244
	(!CK * !SN)	0.00161	0.00164	0.00169
	(!CK * !SN)	-0.00001	-0.00000	0.00001
	(!CK * !SN)	0.00000	0.00000	0.00000
	(!CK * !SN)	0.00244	0.00247	0.00251

Passive power(pJ) for D falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
DFFSQNX2H7H	(CK * SN)	0.00100	0.00103	0.00107
	(CK * SN)	-0.00007	-0.00006	-0.00006
	(CK * SN)	0.00006	0.00006	0.00007
	(CK * SN)	0.00005	0.00007	0.00011
	(CK * !SN)	0.00101	0.00103	0.00107
	(CK * !SN)	-0.00008	-0.00007	-0.00006
	(CK * !SN)	0.00005	0.00006	0.00006
	(CK * !SN)	0.00005	0.00007	0.00012
	(!CK * SN)	0.00230	0.00233	0.00236
	(!CK * SN)	-0.00002	-0.00001	-0.00001
	(!CK * SN)	-0.00000	-0.00000	0.00000
	(!CK * SN)	0.00146	0.00148	0.00152
	(!CK * !SN)	0.00141	0.00144	0.00147
	(!CK * !SN)	0.00008	0.00008	0.00009
	(!CK * !SN)	-0.00000	-0.00000	0.00000
	(!CK * !SN)	0.00075	0.00077	0.00081

Passive power(pJ) for SN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
DFFSQNX2H7H	(CK * D)	0.00005	0.00007	0.00011
	(CK * D)	0.00003	0.00003	0.00003
	(CK * D)	-0.00003	-0.00003	-0.00002
	(CK * D)	0.00074	0.00076	0.00078
	(CK * !D)	0.00005	0.00007	0.00011
	(CK * !D)	0.00003	0.00003	0.00003
	(CK * !D)	-0.00003	-0.00003	-0.00002
	(CK * !D)	0.00074	0.00076	0.00078
	(!CK * D)	0.00006	0.00007	0.00010
	(!CK * D)	0.00003	0.00003	0.00003
	(!CK * D)	-0.00003	-0.00003	-0.00002
	(!CK * D)	0.00074	0.00076	0.00079
	(!CK * !D)	0.00102	0.00104	0.00106
	(!CK * !D)	0.00000	0.00000	0.00000
	(!CK * !D)	0.00001	0.00001	0.00001
	(!CK * !D)	0.00153	0.00155	0.00158

Passive power(pJ) for SN falling (conditional):

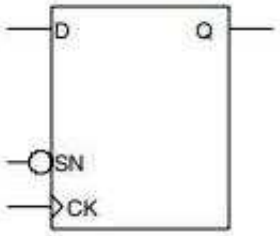
Cell Name	When	Power(pJ)		
		min	avg	max
DFFSQNX2H7H	(CK * D)	0.00095	0.00098	0.00102
	(CK * D)	-0.00003	-0.00003	-0.00003
	(CK * D)	0.00003	0.00003	0.00003
	(CK * D)	0.00027	0.00029	0.00032
	(CK * !D)	0.00095	0.00098	0.00100
	(CK * !D)	-0.00003	-0.00003	-0.00002
	(CK * !D)	0.00003	0.00003	0.00003
	(CK * !D)	0.00027	0.00029	0.00032
	(!CK * D)	0.00095	0.00097	0.00101
	(!CK * D)	-0.00003	-0.00003	-0.00003
	(!CK * D)	0.00002	0.00003	0.00003
	(!CK * D)	0.00026	0.00029	0.00031
	(!CK * !D)	0.00096	0.00099	0.00102
	(!CK * !D)	0.00000	0.00000	0.00000
	(!CK * !D)	0.00002	0.00003	0.00003
	(!CK * !D)	0.00028	0.00030	0.00034

DFFSQX1H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The DFFSQ cell is a high-speed, positive edge-triggered, static D-type flip-flop with asynchronous active-low set (SN). The cell has a single output (Q).



Truth Table

INPUT			OUTPUT
CK	D	SN	Q
R	0	1	0
R	1	1	1
x	x	0	1
x	x	1	IQ

Footprint

Cell Name	Area
DFFSQX1H7H	8.12000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	CK	D	SN	Q
DFFSQX1H7H	0.00101	0.00104	0.00086	0.04154

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DFFSQX1H7H	0.00000	0.06859	0.07428

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFSQX1H7H	CK->Q (RR)	SN	0.16675	0.35432	0.79899
	SN->Q (FR)	(CK * D)	0.12450	0.31365	0.75173
	SN->Q (FR)	(CK * !D)	0.12450	0.31366	0.75169
	SN->Q (FR)	(!CK * D)	0.11697	0.29682	0.72866
	SN->Q (FR)	(!CK * !D)	0.11960	0.30007	0.73332

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFSQX1H7H	CK->Q (RF)	SN	0.19151	0.37988	0.76173

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
DFFSQX1H7H	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFSQX1H7H	**hold**	**CK (R)**	-0.10618	0.02506	0.18159
	setup	**CK (R)**	-0.12521	0.04683	0.19098

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFSQX1H7H	**hold**	**CK (R)**	-0.19633	-0.06893	0.03296
	setup	**CK (R)**	0.00075	0.13677	0.29026

Constraints(ns) for SN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFSQX1H7H	**recovery**	**CK (R)**	-0.08170	0.09058	0.24955
	removal	**CK (R)**	0.03885	0.15089	0.32406

Min Pulse Width (ns) for SN:

Cell Name	High	Low
DFFSQX1H7H	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFSQX1H7H	CK	SN	0.00340	0.00345	0.00351
	CK	SN	0.00000	0.00000	0.00002
	CK	SN	-0.00003	-0.00001	-0.00001
	CK	SN	0.00413	0.00419	0.00425
	SN	(CK * D)	0.00432	0.00439	0.00445
	SN	(CK * D)	-0.00006	-0.00004	-0.00001
	SN	(CK * D)	0.00002	0.00004	0.00006
	SN	(CK * D)	0.00364	0.00370	0.00376
	SN	(CK * !D)	0.00433	0.00439	0.00445
	SN	(CK * !D)	-0.00006	-0.00004	-0.00002
	SN	(CK * !D)	0.00001	0.00004	0.00004
	SN	(CK * !D)	0.00364	0.00370	0.00376
	SN	(!CK * D)	0.00296	0.00302	0.00309
	SN	(!CK * D)	-0.00001	0.00002	0.00003
	SN	(!CK * D)	-0.00007	-0.00004	-0.00001
	SN	(!CK * D)	0.00241	0.00247	0.00253
	SN	(!CK * !D)	0.00300	0.00305	0.00311
	SN	(!CK * !D)	0.00002	0.00004	0.00004
	SN	(!CK * !D)	-0.00008	-0.00005	-0.00001
	SN	(!CK * !D)	0.00246	0.00252	0.00258

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFSQX1H7H	CK	SN	0.00348	0.00357	0.00366
	CK	SN	-0.00001	-0.00000	0.00000
	CK	SN	0.00001	0.00001	0.00003
	CK	SN	0.00414	0.00424	0.00433

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFSQX1H7H	0.00294	0.00299	0.00304
	0.00000	0.00000	0.00000
	0.00004	0.00005	0.00005
	0.00355	0.00360	0.00367

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFSQX1H7H	0.00401	0.00408	0.00415
	0.00000	0.00000	0.00000
	0.00007	0.00007	0.00007
	0.00320	0.00327	0.00334

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFSQX1H7H	0.00164	0.00168	0.00173
	-0.00001	-0.00000	0.00000
	0.00000	0.00000	0.00001
	0.00234	0.00237	0.00240

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFSQX1H7H	0.00219	0.00222	0.00224
	0.00000	0.00000	0.00001
	-0.00001	-0.00000	0.00000
	0.00149	0.00151	0.00155

Passive power(pJ) for SN rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFSQX1H7H	0.00105	0.00108	0.00110
	0.00000	0.00000	0.00000
	0.00001	0.00001	0.00001
	0.00155	0.00157	0.00159

Passive power(pJ) for SN falling :

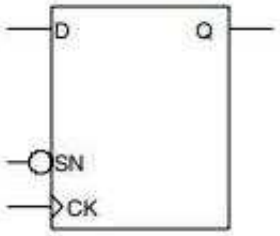
Cell Name	Power(pJ)		
	min	avg	max
DFFSQX1H7H	0.00091	0.00093	0.00096
	0.00000	0.00000	0.00000
	0.00003	0.00003	0.00004
	0.00024	0.00026	0.00030

DFFSQX2H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The DFFSQ cell is a high-speed, positive edge-triggered, static D-type flip-flop with asynchronous active-low set (SN). The cell has a single output (Q).



Truth Table

INPUT			OUTPUT
CK	D	SN	Q
R	0	1	0
R	1	1	1
x	x	0	1
x	x	1	IQ

Footprint

Cell Name	Area
DFFSQX2H7H	8.12000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	CK	D	SN	Q
DFFSQX2H7H	0.00102	0.00120	0.00088	0.06044

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DFFSQX2H7H	0.00000	0.08020	0.09330

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFSQX2H7H	CK->Q (RR)	SN	0.17208	0.36266	0.80777
	SN->Q (FR)	(CK * D)	0.11951	0.30769	0.74502
	SN->Q (FR)	(CK * !D)	0.11951	0.30769	0.74498
	SN->Q (FR)	(!CK * D)	0.11387	0.29418	0.72620
	SN->Q (FR)	(!CK * !D)	0.11587	0.29673	0.72939

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFSQX2H7H	CK->Q (RF)	SN	0.21223	0.40550	0.78552

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
DFFSQX2H7H	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFSQX2H7H	**hold**	**CK (R)**	-0.09615	0.03178	0.18790
	setup	**CK (R)**	-0.13286	0.03882	0.17742

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFSQX2H7H	**hold**	**CK (R)**	-0.18484	-0.06070	0.04182
	setup	**CK (R)**	-0.00616	0.12369	0.26818

Constraints(ns) for SN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFSQX2H7H	**recovery**	**CK (R)**	-0.08404	0.08567	0.24094
	removal	**CK (R)**	0.02761	0.14473	0.31567

Min Pulse Width (ns) for SN:

Cell Name	High	Low
DFFSQX2H7H	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFSQX2H7H	CK	SN	0.00366	0.00375	0.00384
	CK	SN	-0.00001	-0.00000	0.00000
	CK	SN	-0.00002	-0.00000	0.00000
	CK	SN	0.00442	0.00449	0.00458
	SN	(CK * D)	0.00466	0.00474	0.00483
	SN	(CK * D)	-0.00008	-0.00005	-0.00003
	SN	(CK * D)	-0.00000	0.00005	0.00005
	SN	(CK * D)	0.00394	0.00404	0.00414
	SN	(CK * !D)	0.00465	0.00474	0.00483
	SN	(CK * !D)	-0.00008	-0.00005	-0.00003
	SN	(CK * !D)	-0.00000	0.00005	0.00006
	SN	(CK * !D)	0.00394	0.00404	0.00414
	SN	(!CK * D)	0.00328	0.00337	0.00345
	SN	(!CK * D)	-0.00004	0.00000	0.00002
	SN	(!CK * D)	-0.00004	-0.00003	0.00001
	SN	(!CK * D)	0.00268	0.00279	0.00288
	SN	(!CK * !D)	0.00331	0.00340	0.00348
	SN	(!CK * !D)	0.00001	0.00002	0.00004
	SN	(!CK * !D)	-0.00007	-0.00003	0.00000
	SN	(!CK * !D)	0.00276	0.00284	0.00292

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFSQX2H7H	CK	SN	0.00385	0.00396	0.00407
	CK	SN	-0.00000	0.00000	0.00001
	CK	SN	0.00000	0.00000	0.00002
	CK	SN	0.00453	0.00464	0.00475

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFSQX2H7H	0.00295	0.00300	0.00306
	0.00000	0.00000	0.00000
	0.00004	0.00004	0.00005
	0.00356	0.00361	0.00367

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFSQX2H7H	0.00403	0.00410	0.00416
	0.00000	0.00000	0.00000
	0.00007	0.00007	0.00008
	0.00321	0.00328	0.00335

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFSQX2H7H	0.00163	0.00166	0.00171
	0.00000	0.00000	0.00001
	0.00000	0.00000	0.00001
	0.00245	0.00248	0.00252

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFSQX2H7H	0.00231	0.00233	0.00237
	-0.00001	-0.00000	0.00000
	-0.00000	-0.00000	0.00000
	0.00146	0.00150	0.00154

Passive power(pJ) for SN rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFSQX2H7H	0.00105	0.00107	0.00110
	0.00000	0.00000	0.00000
	0.00001	0.00001	0.00001
	0.00156	0.00158	0.00162

Passive power(pJ) for SN falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFSQX2H7H	0.00093	0.00095	0.00098
	0.00000	0.00000	0.00000
	0.00003	0.00003	0.00003
	0.00024	0.00026	0.00029

DFFSX0P5H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

D Flip-Flop with Async Set
Q = !SN ? 1 : rising (CK) ?D : pre_Q
QN = !Q

Truth Table

INPUT			OUTPUT	
CK	D	SN	Q	QN
R	0	1	0	1
R	1	1	1	0
x	x	0	1	0
x	x	1	IQ	IQN

Footprint

Cell Name	Area
DFFSX0P5H7H	7.84000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)	
	CK	D	SN	Q	QN
DFFSX0P5H7H	0.00107	0.00083	0.00089	0.04250	0.04241

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DFFSX0P5H7H	0.00000	0.06822	0.08009

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFSX0P5H7H	CK->Q (RR)	SN	0.18552	0.36255	0.80145
	SN->Q (FR)	(CK * D)	0.16366	0.35337	0.83527
	SN->Q (FR)	(CK * !D)	0.16366	0.35338	0.83527
	SN->Q (FR)	(!CK * D)	0.14441	0.32975	0.79673
	SN->Q (FR)	(!CK * !D)	0.15244	0.34064	0.81820

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFSX0P5H7H	CK->Q (RF)	SN	0.22266	0.37314	0.73153

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFSX0P5H7H	CK->QN (RR)	SN	0.16450	0.35780	0.80303

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFSX0P5H7H	CK->QN (RF)	SN	0.12892	0.29472	0.66775
	SN->QN (FF)	(CK * D)	0.10296	0.28902	0.72681
	SN->QN (FF)	(CK * !D)	0.10296	0.28903	0.72682
	SN->QN (FF)	(!CK * D)	0.09062	0.25896	0.66212
	SN->QN (FF)	(!CK * !D)	0.09782	0.26969	0.68202

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
DFFSX0P5H7H	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFSX0P5H7H	**hold**	**CK (R)**	-0.15631	-0.03357	0.06494
	setup	**CK (R)**	-0.03105	0.08155	0.24698

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFSX0P5H7H	**hold**	**CK (R)**	-0.12604	0.02577	0.18911
	setup	**CK (R)**	-0.13671	0.05803	0.27010

Constraints(ns) for SN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFSX0P5H7H	**recovery**	**CK (R)**	-0.23417	-0.02635	0.23044
	removal	**CK (R)**	0.10901	0.18011	0.31290

Min Pulse Width (ns) for SN:

Cell Name	High	Low
DFFSX0P5H7H	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFSX0P5H7H	CK	SN	0.00200	0.00209	0.00215
	CK	SN	-0.00003	-0.00003	-0.00001
	CK	SN	0.00000	0.00001	0.00003
	CK	SN	0.00231	0.00239	0.00246
	SN	(CK * D)	0.00222	0.00231	0.00238
	SN	(CK * D)	-0.00002	-0.00002	-0.00001
	SN	(CK * D)	0.00001	0.00001	0.00001
	SN	(CK * D)	0.00189	0.00197	0.00204
	SN	(CK * !D)	0.00222	0.00231	0.00238
	SN	(CK * !D)	-0.00002	-0.00002	-0.00002
	SN	(CK * !D)	0.00001	0.00001	0.00001
	SN	(CK * !D)	0.00189	0.00197	0.00204
	SN	(!CK * D)	0.00157	0.00164	0.00171
	SN	(!CK * D)	-0.00006	-0.00005	-0.00005
	SN	(!CK * D)	0.00004	0.00004	0.00005
	SN	(!CK * D)	0.00118	0.00125	0.00132
	SN	(!CK * !D)	0.00166	0.00172	0.00178
	SN	(!CK * !D)	-0.00007	-0.00006	-0.00005
	SN	(!CK * !D)	0.00006	0.00006	0.00006
	SN	(!CK * !D)	0.00125	0.00131	0.00137

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFSX0P5H7H	CK	SN	0.00215	0.00220	0.00225
	CK	SN	0.00001	0.00003	0.00003
	CK	SN	-0.00003	-0.00001	-0.00000
	CK	SN	0.00262	0.00267	0.00273

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFSX0P5H7H	CK	SN	0.00215	0.00220	0.00225
	CK	SN	0.00001	0.00003	0.00004
	CK	SN	-0.00002	-0.00001	0.00000
	CK	SN	0.00262	0.00267	0.00272

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFSX0P5H7H	CK	SN	0.00200	0.00209	0.00215
	CK	SN	-0.00004	-0.00003	-0.00001
	CK	SN	0.00000	0.00001	0.00002
	CK	SN	0.00231	0.00239	0.00246
	SN	(CK * D)	0.00222	0.00231	0.00238
	SN	(CK * D)	-0.00002	-0.00002	-0.00001
	SN	(CK * D)	0.00000	0.00001	0.00003
	SN	(CK * D)	0.00189	0.00197	0.00204
	SN	(CK * !D)	0.00222	0.00231	0.00238
	SN	(CK * !D)	-0.00003	-0.00002	-0.00001
	SN	(CK * !D)	0.00000	0.00001	0.00003
	SN	(CK * !D)	0.00189	0.00197	0.00204
	SN	(!CK * D)	0.00157	0.00164	0.00171
	SN	(!CK * D)	-0.00006	-0.00005	-0.00003
	SN	(!CK * D)	0.00003	0.00004	0.00006
	SN	(!CK * D)	0.00118	0.00125	0.00132
	SN	(!CK * !D)	0.00166	0.00172	0.00178
	SN	(!CK * !D)	-0.00007	-0.00006	-0.00004
	SN	(!CK * !D)	0.00004	0.00006	0.00007
	SN	(!CK * !D)	0.00124	0.00131	0.00137

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFSX0P5H7H	0.00312	0.00321	0.00329
	0.00001	0.00002	0.00003
	0.00001	0.00001	0.00002
	0.00389	0.00398	0.00404

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFSX0P5H7H	0.00430	0.00436	0.00442
	-0.00003	-0.00002	-0.00001
	0.00005	0.00006	0.00006
	0.00340	0.00345	0.00351

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFSX0P5H7H	0.00149	0.00150	0.00152
	0.00002	0.00002	0.00003
	-0.00003	-0.00002	-0.00002
	0.00212	0.00213	0.00214

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFSX0P5H7H	0.00176	0.00178	0.00181
	-0.00003	-0.00002	-0.00002
	0.00002	0.00002	0.00003
	0.00114	0.00116	0.00118

Passive power(pJ) for SN rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFSX0P5H7H	0.00035	0.00035	0.00035
	0.00004	0.00004	0.00004
	0.00000	0.00000	0.00000
	0.00111	0.00112	0.00112

Passive power(pJ) for SN falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFSX0P5H7H	0.00019	0.00020	0.00021
	0.00001	0.00001	0.00002
	0.00000	0.00000	0.00000
	-0.00033	-0.00031	-0.00029

DFFSX1H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

D Flip-Flop with Async Set
Q = !SN ? 1 : rising (CK) ?D : pre_Q
QN = !Q

Truth Table

INPUT			OUTPUT	
CK	D	SN	Q	QN
R	0	1	0	1
R	1	1	1	0
x	x	0	1	0
x	x	1	IQ	IQN

Footprint

Cell Name	Area
DFFSX1H7H	7.84000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)	
	CK	D	SN	Q	QN
DFFSX1H7H	0.00107	0.00083	0.00087	0.05028	0.04975

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DFFSX1H7H	0.00000	0.07703	0.09442

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFSX1H7H	CK->Q (RR)	SN	0.18436	0.36217	0.80381
	SN->Q (FR)	(CK * D)	0.16660	0.35744	0.84343
	SN->Q (FR)	(CK * !D)	0.16660	0.35743	0.84328
	SN->Q (FR)	(!CK * D)	0.14636	0.33275	0.80370
	SN->Q (FR)	(!CK * !D)	0.15467	0.34389	0.82539

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFSX1H7H	CK->Q (RF)	SN	0.22219	0.37482	0.73957

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFSX1H7H	CK->QN (RR)	SN	0.16226	0.35625	0.80199

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFSX1H7H	CK->QN (RF)	SN	0.12754	0.29544	0.67299
	SN->QN (FF)	(CK * D)	0.10450	0.29437	0.73880
	SN->QN (FF)	(CK * !D)	0.10450	0.29436	0.73884
	SN->QN (FF)	(!CK * D)	0.09157	0.26310	0.67236
	SN->QN (FF)	(!CK * !D)	0.09902	0.27407	0.69286

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
DFFSX1H7H	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFSX1H7H	**hold**	**CK (R)**	-0.15672	-0.03405	0.06494
	setup	**CK (R)**	-0.03008	0.08257	0.25040

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFSX1H7H	**hold**	**CK (R)**	-0.12655	0.02669	0.18996
	setup	**CK (R)**	-0.13817	0.05821	0.27375

Constraints(ns) for SN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFSX1H7H	**recovery**	**CK (R)**	-0.23682	-0.02628	0.23415
	removal	**CK (R)**	0.10963	0.18177	0.31440

Min Pulse Width (ns) for SN:

Cell Name	High	Low
DFFSX1H7H	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFSX1H7H	CK	SN	0.00211	0.00220	0.00227
	CK	SN	-0.00003	-0.00003	-0.00003
	CK	SN	0.00000	0.00001	0.00003
	CK	SN	0.00241	0.00250	0.00258
	SN	(CK * D)	0.00234	0.00243	0.00250
	SN	(CK * D)	-0.00002	-0.00002	-0.00002
	SN	(CK * D)	0.00002	0.00002	0.00002
	SN	(CK * D)	0.00200	0.00209	0.00217
	SN	(CK * !D)	0.00234	0.00243	0.00250
	SN	(CK * !D)	-0.00002	-0.00002	-0.00002
	SN	(CK * !D)	0.00002	0.00002	0.00002
	SN	(CK * !D)	0.00200	0.00209	0.00217
	SN	(!CK * D)	0.00166	0.00174	0.00181
	SN	(!CK * D)	-0.00005	-0.00005	-0.00005
	SN	(!CK * D)	0.00003	0.00004	0.00006
	SN	(!CK * D)	0.00127	0.00136	0.00143
	SN	(!CK * !D)	0.00175	0.00182	0.00188
	SN	(!CK * !D)	-0.00006	-0.00005	-0.00003
	SN	(!CK * !D)	0.00004	0.00006	0.00007
	SN	(!CK * !D)	0.00134	0.00141	0.00147

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFSX1H7H	CK	SN	0.00224	0.00231	0.00236
	CK	SN	0.00003	0.00003	0.00003
	CK	SN	-0.00003	-0.00001	-0.00000
	CK	SN	0.00271	0.00278	0.00284

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFSX1H7H	CK	SN	0.00224	0.00231	0.00236
	CK	SN	0.00002	0.00003	0.00004
	CK	SN	-0.00002	-0.00001	0.00000
	CK	SN	0.00271	0.00278	0.00284

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFSX1H7H	CK	SN	0.00211	0.00220	0.00227
	CK	SN	-0.00004	-0.00003	-0.00002
	CK	SN	0.00000	0.00001	0.00002
	CK	SN	0.00241	0.00250	0.00258
	SN	(CK * D)	0.00233	0.00243	0.00250
	SN	(CK * D)	-0.00003	-0.00002	-0.00001
	SN	(CK * D)	0.00000	0.00002	0.00003
	SN	(CK * D)	0.00200	0.00209	0.00217
	SN	(CK * !D)	0.00233	0.00243	0.00250
	SN	(CK * !D)	-0.00003	-0.00002	-0.00001
	SN	(CK * !D)	0.00000	0.00002	0.00003
	SN	(CK * !D)	0.00200	0.00209	0.00217
	SN	(!CK * D)	0.00166	0.00174	0.00181
	SN	(!CK * D)	-0.00006	-0.00005	-0.00000
	SN	(!CK * D)	0.00003	0.00011	0.00331
	SN	(!CK * D)	-0.00176	0.00129	0.00143
	SN	(!CK * !D)	0.00175	0.00182	0.00188
	SN	(!CK * !D)	-0.00007	-0.00006	-0.00004
	SN	(!CK * !D)	0.00005	0.00006	0.00007
	SN	(!CK * !D)	0.00134	0.00141	0.00147

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFSX1H7H	0.00318	0.00327	0.00334
	0.00001	0.00001	0.00002
	0.00001	0.00002	0.00002
	0.00394	0.00403	0.00411

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFSX1H7H	0.00434	0.00440	0.00446
	-0.00002	-0.00001	-0.00001
	0.00005	0.00005	0.00006
	0.00344	0.00350	0.00356

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFSX1H7H	0.00153	0.00153	0.00154
	0.00001	0.00002	0.00003
	-0.00002	-0.00002	-0.00001
	0.00214	0.00215	0.00216

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFSX1H7H	0.00178	0.00181	0.00183
	-0.00003	-0.00002	-0.00001
	0.00001	0.00002	0.00002
	0.00118	0.00120	0.00122

Passive power(pJ) for SN rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFSX1H7H	0.00037	0.00037	0.00037
	0.00004	0.00005	0.00005
	0.00000	0.00000	0.00000
	0.00113	0.00114	0.00114

Passive power(pJ) for SN falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFSX1H7H	0.00019	0.00019	0.00020
	0.00001	0.00001	0.00002
	0.00000	0.00000	0.00000
	-0.00032	-0.00031	-0.00029

DFFSX2H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

D Flip-Flop with Async Set
Q = !SN ? 1 : rising (CK) ?D : pre_Q
QN = !Q

Truth Table

INPUT			OUTPUT	
CK	D	SN	Q	QN
R	0	1	0	1
R	1	1	1	0
x	x	0	1	0
x	x	1	IQ	IQN

Footprint

Cell Name	Area
DFFSX2H7H	7.84000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)	
	CK	D	SN	Q	QN
DFFSX2H7H	0.00115	0.00084	0.00086	0.05717	0.05643

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DFFSX2H7H	0.00000	0.08077	0.10378

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFSX2H7H	CK->Q (RR)	SN	0.19045	0.36566	0.80227
	SN->Q (FR)	(CK * D)	0.18361	0.37436	0.86426
	SN->Q (FR)	(CK * !D)	0.18361	0.37437	0.86426
	SN->Q (FR)	(!CK * D)	0.16117	0.34767	0.82299
	SN->Q (FR)	(!CK * !D)	0.17033	0.35924	0.84482

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFSX2H7H	CK->Q (RF)	SN	0.22133	0.35961	0.68681

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFSX2H7H	CK->QN (RR)	SN	0.16048	0.35541	0.79848

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFSX2H7H	CK->QN (RF)	SN	0.12293	0.27809	0.62036
	SN->QN (FF)	(CK * D)	0.10835	0.28757	0.70562
	SN->QN (FF)	(CK * !D)	0.10835	0.28757	0.70547
	SN->QN (FF)	(!CK * D)	0.09495	0.25725	0.64044
	SN->QN (FF)	(!CK * !D)	0.10286	0.26867	0.66119

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
DFFSX2H7H	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFSX2H7H	**hold**	**CK (R)**	-0.15358	-0.03486	0.05895
	setup	**CK (R)**	-0.02533	0.08520	0.25407

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFSX2H7H	**hold**	**CK (R)**	-0.13570	0.01962	0.18034
	setup	**CK (R)**	-0.12749	0.06800	0.28381

Constraints(ns) for SN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFSX2H7H	**recovery**	**CK (R)**	-0.22191	-0.01223	0.26309
	removal	**CK (R)**	0.10581	0.17313	0.30233

Min Pulse Width (ns) for SN:

Cell Name	High	Low
DFFSX2H7H	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFSX2H7H	CK	SN	0.00237	0.00248	0.00258
	CK	SN	-0.00004	-0.00003	-0.00002
	CK	SN	0.00000	0.00001	0.00002
	CK	SN	0.00270	0.00282	0.00291
	SN	(CK * D)	0.00260	0.00271	0.00280
	SN	(CK * D)	-0.00003	-0.00003	-0.00002
	SN	(CK * D)	0.00002	0.00002	0.00004
	SN	(CK * D)	0.00226	0.00236	0.00246
	SN	(CK * !D)	0.00260	0.00271	0.00280
	SN	(CK * !D)	-0.00003	-0.00003	-0.00002
	SN	(CK * !D)	0.00002	0.00002	0.00004
	SN	(CK * !D)	0.00226	0.00236	0.00246
	SN	(!CK * D)	0.00189	0.00199	0.00208
	SN	(!CK * D)	-0.00005	-0.00005	-0.00004
	SN	(!CK * D)	0.00003	0.00005	0.00006
	SN	(!CK * D)	0.00151	0.00161	0.00169
	SN	(!CK * !D)	0.00199	0.00207	0.00215
	SN	(!CK * !D)	-0.00007	-0.00006	-0.00005
	SN	(!CK * !D)	0.00005	0.00006	0.00008
	SN	(!CK * !D)	0.00156	0.00166	0.00174

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFSX2H7H	CK	SN	0.00248	0.00256	0.00263
	CK	SN	0.00002	0.00003	0.00004
	CK	SN	-0.00002	-0.00001	0.00000
	CK	SN	0.00299	0.00307	0.00314

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFSX2H7H	CK	SN	0.00247	0.00256	0.00264
	CK	SN	0.00001	0.00003	0.00005
	CK	SN	-0.00002	-0.00001	-0.00000
	CK	SN	0.00298	0.00307	0.00315

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFSX2H7H	CK	SN	0.00237	0.00248	0.00258
	CK	SN	-0.00005	-0.00003	-0.00001
	CK	SN	0.00000	0.00001	0.00002
	CK	SN	0.00270	0.00282	0.00291
	SN	(CK * D)	0.00260	0.00271	0.00280
	SN	(CK * D)	-0.00004	-0.00003	-0.00002
	SN	(CK * D)	0.00001	0.00002	0.00003
	SN	(CK * D)	0.00226	0.00236	0.00246
	SN	(CK * !D)	0.00260	0.00271	0.00280
	SN	(CK * !D)	-0.00004	-0.00003	-0.00002
	SN	(CK * !D)	0.00000	0.00002	0.00003
	SN	(CK * !D)	0.00226	0.00236	0.00246
	SN	(!CK * D)	0.00189	0.00199	0.00208
	SN	(!CK * D)	-0.00007	-0.00005	-0.00003
	SN	(!CK * D)	0.00003	0.00004	0.00006
	SN	(!CK * D)	0.00151	0.00160	0.00169
	SN	(!CK * !D)	0.00199	0.00207	0.00215
	SN	(!CK * !D)	-0.00007	-0.00006	-0.00004
	SN	(!CK * !D)	0.00005	0.00006	0.00007
	SN	(!CK * !D)	0.00157	0.00166	0.00174

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFSX2H7H	0.00329	0.00340	0.00347
	0.00000	0.00001	0.00002
	0.00002	0.00002	0.00003
	0.00410	0.00420	0.00428

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFSX2H7H	0.00448	0.00453	0.00460
	-0.00001	-0.00001	0.00000
	0.00004	0.00005	0.00005
	0.00354	0.00359	0.00366

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFSX2H7H	0.00159	0.00159	0.00160
	0.00000	0.00000	0.00001
	-0.00002	-0.00002	-0.00001
	0.00219	0.00219	0.00221

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFSX2H7H	0.00182	0.00184	0.00186
	-0.00001	-0.00000	-0.00000
	0.00001	0.00002	0.00002
	0.00122	0.00124	0.00125

Passive power(pJ) for SN rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFSX2H7H	0.00039	0.00040	0.00040
	0.00005	0.00006	0.00006
	0.00000	0.00000	0.00000
	0.00118	0.00118	0.00119

Passive power(pJ) for SN falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFSX2H7H	0.00019	0.00019	0.00020
	0.00001	0.00002	0.00002
	0.00000	0.00000	0.00000
	-0.00032	-0.00030	-0.00029

DFFTRQX0P5H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

D Flip-Flop with Sync Clear
Q = rising (CK) ? D&RN : pre_Q

Truth Table

INPUT			OUTPUT
CK	D	RN	Q
R	0	x	0
R	1	0	0
R	1	1	1
x	x	x	IQ

Footprint

Cell Name	Area
DFFTRQX0P5H7H	7.56000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	CK	D	RN	Q
DFFTRQX0P5H7H	0.00106	0.00098	0.00110	0.04272

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DFFTRQX0P5H7H	0.00000	0.07140	0.08858

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFTRQX0P5H7H	CK->Q (RR)	0.17893	0.36763	0.81463

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFTRQX0P5H7H	CK->Q (RF)	0.15365	0.31976	0.69445

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
DFFTRQX0P5H7H	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFTRQX0P5H7H	**hold**	**CK (R)**	-0.22628	-0.07287	0.04413
	setup	**CK (R)**	-0.02590	0.09203	0.25475

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFTRQX0P5H7H	**hold**	**CK (R)**	-0.23061	-0.02032	0.17312
	setup	**CK (R)**	-0.13935	0.06659	0.28660

Constraints(ns) for RN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFTRQX0P5H7H	**hold**	**CK (R)**	-0.20661	-0.06487	0.05016
	setup	**CK (R)**	-0.02956	0.08539	0.24250

Constraints(ns) for RN falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFTRQX0P5H7H	**hold**	**CK (R)**	-0.22076	-0.01606	0.17621
	setup	**CK (R)**	-0.14169	0.06278	0.27614

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFTRQX0P5H7H	CK	0.00356	0.00362	0.00370
	CK	0.00007	0.00008	0.00008
	CK	-0.00007	-0.00004	-0.00003
	CK	0.00445	0.00452	0.00458

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFTRQX0P5H7H	CK	0.00396	0.00410	0.00421
	CK	-0.00006	-0.00004	-0.00002
	CK	0.00004	0.00006	0.00007
	CK	0.00454	0.00467	0.00478

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFTRQX0P5H7H	0.00187	0.00191	0.00196
	0.00000	0.00000	0.00001
	0.00002	0.00002	0.00003
	0.00257	0.00261	0.00265

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFTRQX0P5H7H	0.00436	0.00442	0.00449
	-0.00001	-0.00000	0.00000
	-0.00003	-0.00002	-0.00002
	0.00373	0.00379	0.00384

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFTRQX0P5H7H	0.00157	0.00160	0.00163
	0.00011	0.00011	0.00011
	-0.00013	-0.00013	-0.00013
	0.00277	0.00280	0.00282

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFTRQX0P5H7H	0.00236	0.00240	0.00244
	-0.00011	-0.00011	-0.00011
	0.00013	0.00013	0.00013
	0.00119	0.00122	0.00125

Passive power(pJ) for RN rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFTRQX0P5H7H	0.00154	0.00157	0.00161
	0.00010	0.00011	0.00011
	-0.00008	-0.00008	-0.00007
	0.00257	0.00260	0.00264

Passive power(pJ) for RN falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFTRQX0P5H7H	0.00223	0.00226	0.00230
	-0.00011	-0.00011	-0.00010
	0.00007	0.00008	0.00009
	0.00120	0.00123	0.00127

DFFTRQX1H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

D Flip-Flop with Sync Clear
Q = rising (CK) ? D&RN : pre_Q

Truth Table

INPUT			OUTPUT
CK	D	RN	Q
R	0	x	0
R	1	0	0
R	1	1	1
x	x	x	IQ

Footprint

Cell Name	Area
DFFTRQX1H7H	7.56000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	CK	D	RN	Q
DFFTRQX1H7H	0.00106	0.00095	0.00106	0.05010

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DFFTRQX1H7H	0.00000	0.07514	0.09426

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFTRQX1H7H	**CK->Q (RR)**	0.17556	0.36451	0.81202

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFTRQX1H7H	**CK->Q (RF)**	0.15133	0.31977	0.69934

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
DFFTRQX1H7H	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFTRQX1H7H	**hold**	**CK (R)**	-0.23857	-0.08076	0.03639
	setup	**CK (R)**	-0.01895	0.10108	0.26960

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFTRQX1H7H	**hold**	**CK (R)**	-0.22979	-0.01897	0.17778
	setup	**CK (R)**	-0.13942	0.06589	0.28526

Constraints(ns) for RN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFTRQX1H7H	**hold**	**CK (R)**	-0.22062	-0.07454	0.03843
	setup	**CK (R)**	-0.02036	0.09575	0.25976

Constraints(ns) for RN falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFTRQX1H7H	**hold**	**CK (R)**	-0.21978	-0.01572	0.17813
	setup	**CK (R)**	-0.14416	0.06167	0.27593

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFTRQX1H7H	CK	0.00366	0.00373	0.00380
	CK	0.00007	0.00007	0.00008
	CK	-0.00007	-0.00004	-0.00004
	CK	0.00455	0.00462	0.00469

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFTRQX1H7H	CK	0.00405	0.00419	0.00430
	CK	-0.00005	-0.00003	-0.00003
	CK	0.00006	0.00007	0.00007
	CK	0.00464	0.00477	0.00489

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFTRQX1H7H	0.00188	0.00192	0.00197
	0.00000	0.00000	0.00001
	0.00002	0.00003	0.00003
	0.00259	0.00262	0.00266

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFTRQX1H7H	0.00441	0.00447	0.00452
	-0.00001	-0.00000	0.00000
	-0.00003	-0.00003	-0.00002
	0.00377	0.00383	0.00389

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFTRQX1H7H	0.00163	0.00165	0.00168
	0.00010	0.00011	0.00012
	-0.00012	-0.00011	-0.00011
	0.00277	0.00279	0.00282

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFTRQX1H7H	0.00235	0.00239	0.00242
	-0.00011	-0.00010	-0.00010
	0.00011	0.00011	0.00012
	0.00123	0.00126	0.00129

Passive power(pJ) for RN rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFTRQX1H7H	0.00159	0.00162	0.00166
	0.00010	0.00010	0.00011
	-0.00008	-0.00007	-0.00006
	0.00259	0.00262	0.00265

Passive power(pJ) for RN falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFTRQX1H7H	0.00224	0.00227	0.00232
	-0.00011	-0.00010	-0.00010
	0.00006	0.00007	0.00008
	0.00124	0.00128	0.00132

DFFTRQX2H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

D Flip-Flop with Sync Clear
Q = rising (CK) ? D&RN : pre_Q

Truth Table

INPUT			OUTPUT
CK	D	RN	Q
R	0	x	0
R	1	0	0
R	1	1	1
x	x	x	IQ

Footprint

Cell Name	Area
DFFTRQX2H7H	7.84000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	CK	D	RN	Q
DFFTRQX2H7H	0.00115	0.00098	0.00110	0.06356

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DFFTRQX2H7H	0.00000	0.08943	0.10645

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFTRQX2H7H	**CK->Q (RR)**	0.17033	0.35979	0.80510

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFTRQX2H7H	**CK->Q (RF)**	0.15000	0.31460	0.68142

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
DFFTRQX2H7H	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFTRQX2H7H	**hold**	**CK (R)**	-0.22892	-0.07548	0.03955
	setup	**CK (R)**	-0.02212	0.09547	0.26210

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFTRQX2H7H	**hold**	**CK (R)**	-0.23590	-0.02703	0.16575
	setup	**CK (R)**	-0.13329	0.07240	0.29031

Constraints(ns) for RN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFTRQX2H7H	**hold**	**CK (R)**	-0.21028	-0.06827	0.04178
	setup	**CK (R)**	-0.02577	0.08960	0.24519

Constraints(ns) for RN falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFTRQX2H7H	**hold**	**CK (R)**	-0.22679	-0.02314	0.16490
	setup	**CK (R)**	-0.13619	0.06758	0.28101

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFTRQX2H7H	CK	0.00402	0.00412	0.00421
	CK	0.00008	0.00008	0.00008
	CK	-0.00006	-0.00003	0.00000
	CK	0.00496	0.00507	0.00517

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFTRQX2H7H	CK	0.00452	0.00468	0.00482
	CK	-0.00005	-0.00003	-0.00003
	CK	0.00004	0.00006	0.00009
	CK	0.00517	0.00534	0.00548

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFTRQX2H7H	0.00196	0.00200	0.00204
	0.00000	0.00000	0.00001
	0.00002	0.00003	0.00003
	0.00273	0.00277	0.00282

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFTRQX2H7H	0.00458	0.00464	0.00470
	-0.00001	-0.00000	0.00000
	-0.00003	-0.00003	-0.00002
	0.00387	0.00393	0.00400

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFTRQX2H7H	0.00168	0.00171	0.00175
	0.00008	0.00009	0.00010
	-0.00013	-0.00012	-0.00012
	0.00286	0.00288	0.00291

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFTRQX2H7H	0.00243	0.00246	0.00251
	-0.00010	-0.00009	-0.00008
	0.00012	0.00012	0.00013
	0.00127	0.00130	0.00134

Passive power(pJ) for RN rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFTRQX2H7H	0.00164	0.00167	0.00170
	0.00009	0.00010	0.00011
	-0.00007	-0.00007	-0.00007
	0.00265	0.00268	0.00272

Passive power(pJ) for RN falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFTRQX2H7H	0.00229	0.00232	0.00237
	-0.00010	-0.00009	-0.00009
	0.00007	0.00007	0.00007
	0.00128	0.00132	0.00136

DFFX0P5H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

D Flip-Flop
Q = rising (CK) ? D : pre_Q
QN = !Q

Truth Table

INPUT		OUTPUT	
CK	D	Q	QN
R	0	0	1
R	1	1	0
x	x	IQ	IQN

Footprint

Cell Name	Area
DFFX0P5H7H	6.44000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)	
	CK	D	Q	QN
DFFX0P5H7H	0.00107	0.00084	0.04280	0.04280

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DFFX0P5H7H	0.00000	0.06885	0.06885

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFX0P5H7H	CK->Q (RR)	0.17442	0.35995	0.79968

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFX0P5H7H	CK->Q (RF)	0.12774	0.29043	0.65689

Delay(ns) to QN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFX0P5H7H	CK->QN (RR)	0.17857	0.35166	0.78464

Delay(ns) to QN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFX0P5H7H	CK->QN (RF)	0.22058	0.36769	0.72410

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
DFFX0P5H7H	0.9851	0.9851

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFX0P5H7H	**hold**	**CK (R)**	-0.18191	-0.04635	0.05427
	setup	**CK (R)**	-0.03871	0.06521	0.21462

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFX0P5H7H	**hold**	**CK (R)**	-0.19251	-0.00455	0.17292
	setup	**CK (R)**	-0.13590	0.06175	0.26860

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFX0P5H7H	CK	0.00216	0.00222	0.00227
	CK	0.00003	0.00004	0.00007
	CK	-0.00004	-0.00003	-0.00002
	CK	0.00261	0.00267	0.00272

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFX0P5H7H	CK	0.00201	0.00209	0.00215
	CK	-0.00004	-0.00004	-0.00003
	CK	0.00003	0.00004	0.00005
	CK	0.00233	0.00241	0.00247

Internal switching power(pJ) to QN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFX0P5H7H	CK	0.00201	0.00209	0.00215
	CK	-0.00004	-0.00004	-0.00003
	CK	0.00004	0.00004	0.00004
	CK	0.00233	0.00241	0.00247

Internal switching power(pJ) to QN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFX0P5H7H	CK	0.00216	0.00222	0.00227
	CK	0.00003	0.00004	0.00006
	CK	-0.00004	-0.00003	-0.00002
	CK	0.00261	0.00267	0.00272

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFX0P5H7H	0.00182	0.00187	0.00192
	-0.00000	0.00000	0.00001
	0.00000	0.00000	0.00001
	0.00258	0.00263	0.00268

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFX0P5H7H	0.00404	0.00412	0.00420
	0.00005	0.00006	0.00006
	-0.00001	-0.00000	0.00000
	0.00347	0.00355	0.00365

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFX0P5H7H	0.00135	0.00138	0.00140
	0.00003	0.00003	0.00004
	-0.00004	-0.00003	-0.00003
	0.00200	0.00203	0.00205

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFX0P5H7H	0.00185	0.00188	0.00190
	-0.00004	-0.00003	-0.00003
	0.00003	0.00003	0.00004
	0.00120	0.00122	0.00125

DFFX1H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

D Flip-Flop
Q = rising (CK) ? D : pre_Q
QN = !Q

Truth Table

INPUT		OUTPUT	
CK	D	Q	QN
R	0	0	1
R	1	1	0
x	x	IQ	IQN

Footprint

Cell Name	Area
DFFX1H7H	6.44000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)	
	CK	D	Q	QN
DFFX1H7H	0.00106	0.00084	0.04546	0.04557

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DFFX1H7H	0.00000	0.07738	0.07738

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFX1H7H	**CK->Q (RR)**	0.16997	0.35535	0.79569

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFX1H7H	**CK->Q (RF)**	0.12603	0.28249	0.63236

Delay(ns) to QN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFX1H7H	**CK->QN (RR)**	0.17506	0.34866	0.78334

Delay(ns) to QN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFX1H7H	**CK->QN (RF)**	0.21208	0.35333	0.69346

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
DFFX1H7H	0.9851	0.9851

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFX1H7H	**hold**	**CK (R)**	-0.18042	-0.04703	0.05255
	setup	**CK (R)**	-0.03920	0.06538	0.21730

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFX1H7H	**hold**	**CK (R)**	-0.19263	-0.00453	0.17273
	setup	**CK (R)**	-0.13592	0.06249	0.26642

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFX1H7H	CK	0.00217	0.00223	0.00228
	CK	0.00004	0.00005	0.00005
	CK	-0.00004	-0.00003	-0.00002
	CK	0.00262	0.00269	0.00274

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFX1H7H	CK	0.00205	0.00213	0.00220
	CK	-0.00005	-0.00004	-0.00002
	CK	0.00003	0.00004	0.00005
	CK	0.00237	0.00245	0.00252

Internal switching power(pJ) to QN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFX1H7H	CK	0.00205	0.00213	0.00220
	CK	-0.00005	-0.00003	-0.00001
	CK	0.00004	0.00004	0.00005
	CK	0.00237	0.00245	0.00252

Internal switching power(pJ) to QN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFX1H7H	CK	0.00217	0.00223	0.00228
	CK	0.00005	0.00005	0.00005
	CK	-0.00004	-0.00003	-0.00003
	CK	0.00262	0.00268	0.00274

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFX1H7H	0.00182	0.00187	0.00192
	0.00001	0.00001	0.00001
	0.00000	0.00000	0.00001
	0.00257	0.00262	0.00267

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFX1H7H	0.00403	0.00411	0.00419
	0.00005	0.00006	0.00007
	-0.00001	-0.00000	0.00000
	0.00347	0.00355	0.00364

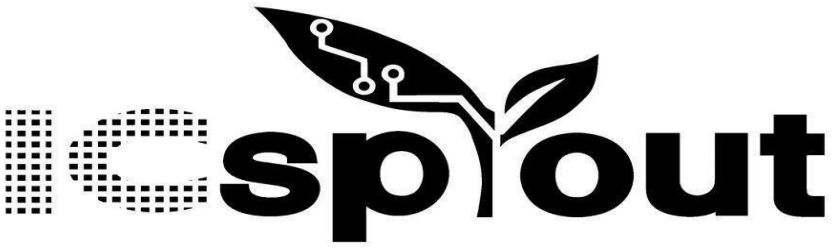
Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFX1H7H	0.00137	0.00140	0.00142
	0.00003	0.00003	0.00003
	-0.00004	-0.00003	-0.00003
	0.00201	0.00204	0.00206

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFX1H7H	0.00186	0.00189	0.00192
	-0.00003	-0.00003	-0.00003
	0.00003	0.00003	0.00004
	0.00122	0.00124	0.00127

DFFX2H7H



tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

D Flip-Flop
Q = rising (CK) ? D : pre_Q
QN = !Q

Truth Table

INPUT		OUTPUT	
CK	D	Q	QN
R	0	0	1
R	1	1	0
x	x	IQ	IQN

Footprint

Cell Name	Area
DFFX2H7H	7.84000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)	
	CK	D	Q	QN
DFFX2H7H	0.00116	0.00085	0.06384	0.06395

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DFFX2H7H	0.00000	0.09838	0.09838

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFX2H7H	**CK->Q (RR)**	0.16868	0.35650	0.79817

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFX2H7H	**CK->Q (RF)**	0.13116	0.29371	0.65588

Delay(ns) to QN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFX2H7H	**CK->QN (RR)**	0.18878	0.36071	0.79505

Delay(ns) to QN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFX2H7H	**CK->QN (RF)**	0.21755	0.36214	0.71203

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
DFFX2H7H	0.9851	0.9851

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFX2H7H	**hold**	**CK (R)**	-0.20001	-0.05505	0.04730
	setup	**CK (R)**	-0.02787	0.07701	0.23837

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFX2H7H	**hold**	**CK (R)**	-0.20930	-0.01429	0.16389
	setup	**CK (R)**	-0.13085	0.07162	0.28422

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFX2H7H	CK	0.00257	0.00265	0.00272
	CK	0.00004	0.00005	0.00006
	CK	-0.00004	-0.00003	-0.00002
	CK	0.00305	0.00314	0.00322

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFX2H7H	CK	0.00244	0.00255	0.00264
	CK	-0.00004	-0.00004	-0.00004
	CK	0.00002	0.00004	0.00006
	CK	0.00279	0.00290	0.00299

Internal switching power(pJ) to QN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFX2H7H	CK	0.00244	0.00255	0.00264
	CK	-0.00005	-0.00004	-0.00001
	CK	0.00004	0.00004	0.00005
	CK	0.00279	0.00290	0.00299

Internal switching power(pJ) to QN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFX2H7H	CK	0.00256	0.00265	0.00272
	CK	0.00005	0.00005	0.00006
	CK	-0.00004	-0.00003	-0.00002
	CK	0.00306	0.00314	0.00321

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFX2H7H	0.00199	0.00204	0.00211
	0.00000	0.00001	0.00002
	-0.00001	-0.00000	0.00001
	0.00282	0.00288	0.00294

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFX2H7H	0.00474	0.00481	0.00489
	-0.00002	-0.00001	-0.00000
	0.00003	0.00004	0.00005
	0.00369	0.00376	0.00382

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFX2H7H	0.00160	0.00162	0.00165
	0.00002	0.00002	0.00002
	-0.00003	-0.00002	-0.00002
	0.00222	0.00225	0.00227

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFX2H7H	0.00221	0.00224	0.00227
	-0.00002	-0.00002	-0.00002
	0.00002	0.00003	0.00003
	0.00158	0.00161	0.00163

DFFX3H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

D Flip-Flop
Q = rising (CK) ? D : pre_Q
QN = !Q

Truth Table

INPUT		OUTPUT	
CK	D	Q	QN
R	0	0	1
R	1	1	0
x	x	IQ	IQN

Footprint

Cell Name	Area
DFFX3H7H	8.12000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)	
	CK	D	Q	QN
DFFX3H7H	0.00116	0.00091	0.09063	0.09027

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DFFX3H7H	0.00000	0.10872	0.10872

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFX3H7H	CK->Q (RR)	0.16621	0.35494	0.79628

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFX3H7H	CK->Q (RF)	0.13159	0.30067	0.67465

Delay(ns) to QN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFX3H7H	CK->QN (RR)	0.19345	0.36364	0.79405

Delay(ns) to QN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFX3H7H	CK->QN (RF)	0.22183	0.37029	0.73007

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
DFFX3H7H	0.9851	0.9851

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFX3H7H	**hold**	**CK (R)**	-0.19777	-0.05421	0.04619
	setup	**CK (R)**	-0.03110	0.07513	0.23523

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFX3H7H	**hold**	**CK (R)**	-0.19792	-0.00837	0.16620
	setup	**CK (R)**	-0.13502	0.06451	0.27486

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFX3H7H	CK	0.00273	0.00285	0.00293
	CK	0.00004	0.00005	0.00007
	CK	-0.00005	-0.00004	-0.00002
	CK	0.00323	0.00335	0.00343

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFX3H7H	CK	0.00258	0.00271	0.00281
	CK	-0.00005	-0.00004	-0.00001
	CK	0.00002	0.00004	0.00006
	CK	0.00293	0.00305	0.00315

Internal switching power(pJ) to QN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFX3H7H	CK	0.00258	0.00271	0.00281
	CK	-0.00005	-0.00004	-0.00002
	CK	0.00002	0.00005	0.00007
	CK	0.00293	0.00305	0.00315

Internal switching power(pJ) to QN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFX3H7H	CK	0.00276	0.00285	0.00293
	CK	0.00004	0.00005	0.00005
	CK	-0.00004	-0.00004	-0.00002
	CK	0.00325	0.00335	0.00343

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFX3H7H	0.00201	0.00206	0.00213
	0.00000	0.00001	0.00002
	-0.00000	0.00000	0.00001
	0.00283	0.00288	0.00294

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFX3H7H	0.00487	0.00493	0.00501
	-0.00002	-0.00001	-0.00000
	0.00004	0.00005	0.00006
	0.00379	0.00385	0.00393

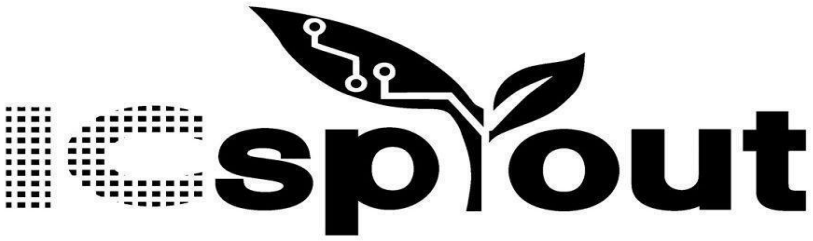
Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFX3H7H	0.00163	0.00166	0.00169
	0.00004	0.00004	0.00004
	-0.00003	-0.00003	-0.00003
	0.00233	0.00236	0.00239

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFX3H7H	0.00237	0.00241	0.00244
	-0.00004	-0.00004	-0.00004
	0.00003	0.00003	0.00003
	0.00168	0.00171	0.00174

DLY1X2H7H



tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Truth Table

INPUT	OUTPUT
A	Y
0	0
1	1

Footprint

Cell Name	Area
DLY1X2H7H	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
DLY1X2H7H	0.00098	0.05463

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DLY1X2H7H	0.00000	0.02462	0.02462

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DLY1X2H7H	A->Y (RR)	0.11108	0.27367	0.66620

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DLY1X2H7H	A->Y (FF)	0.11346	0.28205	0.68914

Power Information

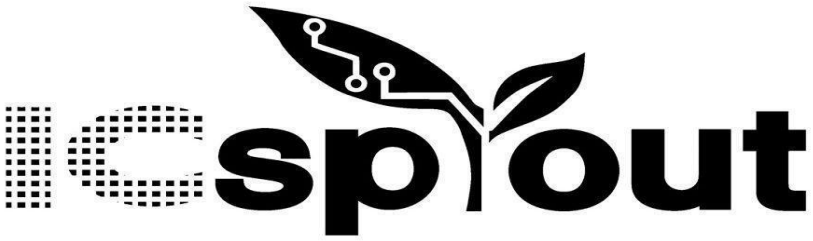
Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
DLY1X2H7H	A	0.00176	0.00186	0.00195
	A	-0.00002	-0.00001	-0.00001
	A	0.00000	0.00001	0.00001
	A	0.00244	0.00254	0.00263

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
DLY1X2H7H	A	0.00248	0.00257	0.00266
	A	0.00001	0.00001	0.00002
	A	-0.00001	-0.00001	-0.00000
	A	0.00180	0.00189	0.00198

DLY1X6H7H



tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Truth Table

INPUT	OUTPUT
A	Y
0	0
1	1

Footprint

Cell Name	Area
DLY1X6H7H	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
DLY1X6H7H	0.00098	0.16337

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DLY1X6H7H	0.00000	0.03990	0.03990

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DLY1X6H7H	A->Y (RR)	0.13146	0.29931	0.69518

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DLY1X6H7H	A->Y (FF)	0.13313	0.30717	0.71770

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
DLY1X6H7H	A	0.00301	0.00322	0.00339
	A	-0.00010	-0.00010	-0.00009
	A	0.00005	0.00006	0.00006
	A	0.00355	0.00377	0.00393

Internal switching power(pJ) to Y falling :

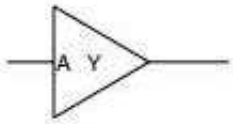
Cell Name	Input	Power(pJ)		
		min	avg	max
DLY1X6H7H	A	0.00363	0.00383	0.00400
	A	0.00009	0.00010	0.00010
	A	-0.00006	-0.00006	-0.00005
	A	0.00308	0.00329	0.00345

DLY2X2H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The DLY2 cell provides the logical delay of a single input (A). The output (Y) is represented by the logic equation:



Truth Table

INPUT	OUTPUT
A	Y
0	0
1	1

Footprint

Cell Name	Area
DLY2X2H7H	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
DLY2X2H7H	0.00098	0.05455

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DLY2X2H7H	0.00000	0.02036	0.02036

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DLY2X2H7H	A->Y (RR)	0.16414	0.33158	0.73287

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DLY2X2H7H	A->Y (FF)	0.16639	0.34193	0.76109

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
DLY2X2H7H	A	0.00199	0.00210	0.00220
	A	-0.00002	-0.00002	-0.00002
	A	0.00000	0.00001	0.00001
	A	0.00267	0.00278	0.00288

Internal switching power(pJ) to Y falling :

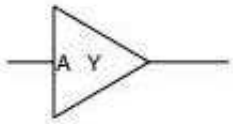
Cell Name	Input	Power(pJ)		
		min	avg	max
DLY2X2H7H	A	0.00270	0.00280	0.00291
	A	0.00002	0.00002	0.00003
	A	-0.00001	-0.00001	-0.00000
	A	0.00202	0.00213	0.00223

DLY2X6H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The DLY2 cell provides the logical delay of a single input (A). The output (Y) is represented by the logic equation:



Truth Table

INPUT	OUTPUT
A	Y
0	0
1	1

Footprint

Cell Name	Area
DLY2X6H7H	3.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
DLY2X6H7H	0.00098	0.16299

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DLY2X6H7H	0.00000	0.03582	0.03582

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DLY2X6H7H	A->Y (RR)	0.19375	0.36905	0.77369

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DLY2X6H7H	A->Y (FF)	0.19508	0.37903	0.80302

Power Information

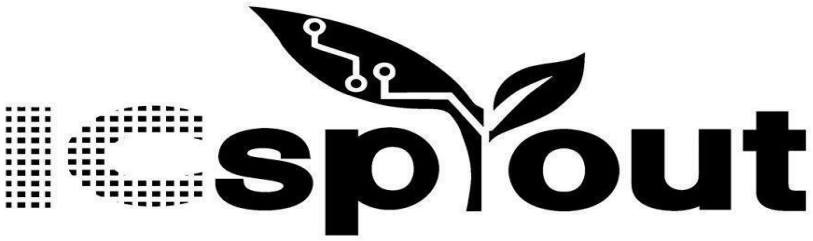
Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
DLY2X6H7H	A	0.00323	0.00343	0.00362
	A	-0.00011	-0.00011	-0.00008
	A	0.00005	0.00006	0.00006
	A	0.00376	0.00397	0.00416

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
DLY2X6H7H	A	0.00382	0.00404	0.00422
	A	0.00008	0.00011	0.00012
	A	-0.00006	-0.00006	-0.00005
	A	0.00329	0.00350	0.00369

DLY3X2H7H



tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Truth Table

INPUT	OUTPUT
A	Y
0	0
1	1

Footprint

Cell Name	Area
DLY3X2H7H	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
DLY3X2H7H	0.00098	0.05453

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DLY3X2H7H	0.00000	0.02257	0.02262

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DLY3X2H7H	A->Y (RR)	0.22477	0.39667	0.80406

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DLY3X2H7H	A->Y (FF)	0.22846	0.41174	0.84265

Power Information

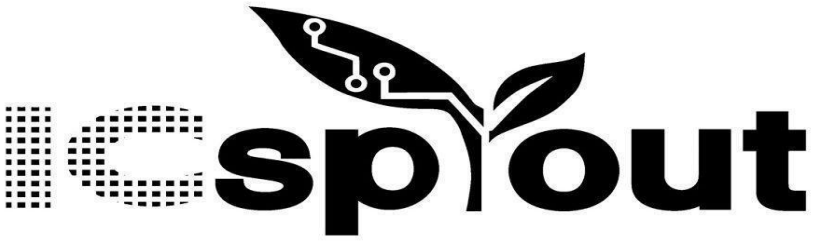
Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
DLY3X2H7H	A	0.00219	0.00230	0.00241
	A	-0.00003	-0.00002	-0.00001
	A	0.00000	0.00001	0.00001
	A	0.00286	0.00298	0.00308

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
DLY3X2H7H	A	0.00289	0.00300	0.00310
	A	0.00002	0.00003	0.00004
	A	-0.00001	-0.00001	-0.00000
	A	0.00222	0.00233	0.00244

DLY3X6H7H



tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Truth Table

INPUT	OUTPUT
A	Y
0	0
1	1

Footprint

Cell Name	Area
DLY3X6H7H	3.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
DLY3X6H7H	0.00098	0.15999

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DLY3X6H7H	0.00000	0.03830	0.03830

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DLY3X6H7H	**A->Y (RR)**	0.26975	0.44955	0.85735

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DLY3X6H7H	**A->Y (FF)**	0.26827	0.46080	0.89412

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
DLY3X6H7H	A	0.00352	0.00374	0.00394
	A	-0.00011	-0.00011	-0.00009
	A	0.00005	0.00006	0.00008
	A	0.00406	0.00427	0.00447

Internal switching power(pJ) to Y falling :

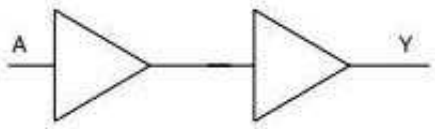
Cell Name	Input	Power(pJ)		
		min	avg	max
DLY3X6H7H	A	0.00411	0.00432	0.00452
	A	0.00010	0.00011	0.00012
	A	-0.00006	-0.00006	-0.00005
	A	0.00357	0.00378	0.00399

DLY4X2H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The DLY4 cell provides the logical delay of a single input (A). The output (Y) is represented by the logic equation:



Truth Table

INPUT	OUTPUT
A	Y
0	0
1	1

Footprint

Cell Name	Area
DLY4X2H7H	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
DLY4X2H7H	0.00102	0.05415

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DLY4X2H7H	0.00000	0.02509	0.02519

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DLY4X2H7H	A->Y (RR)	0.29350	0.46902	0.88122

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DLY4X2H7H	A->Y (FF)	0.29378	0.48322	0.92286

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
DLY4X2H7H	A	0.00241	0.00253	0.00265
	A	-0.00002	-0.00002	-0.00001
	A	0.00000	0.00001	0.00001
	A	0.00311	0.00323	0.00335

Internal switching power(pJ) to Y falling :

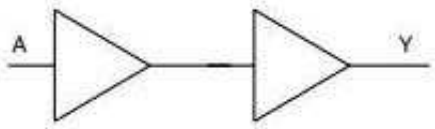
Cell Name	Input	Power(pJ)		
		min	avg	max
DLY4X2H7H	A	0.00309	0.00320	0.00332
	A	0.00002	0.00002	0.00003
	A	-0.00001	-0.00000	0.00001
	A	0.00239	0.00250	0.00262

DLY4X6H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The DLY4 cell provides the logical delay of a single input (A). The output (Y) is represented by the logic equation:



Truth Table

INPUT	OUTPUT
A	Y
0	0
1	1

Footprint

Cell Name	Area
DLY4X6H7H	3.64000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
DLY4X6H7H	0.00103	0.15996

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DLY4X6H7H	0.00000	0.04058	0.04058

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DLY4X6H7H	A->Y (RR)	0.34456	0.53163	0.94944

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DLY4X6H7H	A->Y (FF)	0.34758	0.55164	1.00040

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
DLY4X6H7H	A	0.00355	0.00375	0.00396
	A	-0.00012	-0.00011	-0.00010
	A	0.00004	0.00006	0.00009
	A	0.00412	0.00431	0.00452

Internal switching power(pJ) to Y falling :

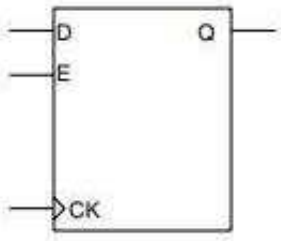
Cell Name	Input	Power(pJ)		
		min	avg	max
DLY4X6H7H	A	0.00419	0.00438	0.00459
	A	0.00010	0.00011	0.00012
	A	-0.00006	-0.00006	-0.00004
	A	0.00363	0.00381	0.00402

EDFFQX0P5H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The EDFFQ cell is a positive edge-triggered, static D-type flip-flop with a synchronous, active-high enable (E). The cell has a single output (Q).



Truth Table

INPUT			OUTPUT
CK	D	E	Q
R	x	0	IQ
R	0	1	0
R	1	1	1
x	x	x	IQ

Footprint

Cell Name	Area
EDFFQX0P5H7H	9.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	CK	D	E	Q
EDFFQX0P5H7H	0.00105	0.00085	0.00231	0.04276

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
EDFFQX0P5H7H	0.00000	0.07140	0.07144

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
EDFFQX0P5H7H	CK->Q (RR)	E	0.19060	0.37999	0.82390

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
EDFFQX0P5H7H	CK->Q (RF)	E	0.14433	0.31298	0.68679

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
EDFFQX0P5H7H	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
EDFFQX0P5H7H	**hold**	**CK (R)**	-0.28352	-0.11376	-0.00523
	setup	**CK (R)**	0.02516	0.13477	0.31472

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
EDFFQX0P5H7H	**hold**	**CK (R)**	-0.30838	-0.08850	0.09959
	setup	**CK (R)**	-0.04118	0.15374	0.38083

Constraints(ns) for E rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
EDFFQX0P5H7H	**hold**	**CK (R)**	-0.01468	0.05817	0.19128
	setup	**CK (R)**	0.01377	0.15737	0.30527

Constraints(ns) for E falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
EDFFQX0P5H7H	**hold**	**CK (R)**	-0.27236	-0.06574	0.11893
	setup	**CK (R)**	0.04399	0.14630	0.29225

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
EDFFQX0P5H7H	CK	E	0.00542	0.00549	0.00557
	CK	E	0.00004	0.00005	0.00005
	CK	E	-0.00005	-0.00004	-0.00000
	CK	E	0.00618	0.00625	0.00632

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
EDFFQX0P5H7H	CK	E	0.00433	0.00445	0.00456
	CK	E	-0.00003	-0.00003	-0.00003
	CK	E	0.00002	0.00005	0.00006
	CK	E	0.00502	0.00514	0.00525

Passive power(pJ) for CK rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
EDFFQX0P5H7H	(D * E)	0.00207	0.00211	0.00215
	(D * E)	0.00003	0.00003	0.00003
	(D * E)	0.00000	0.00000	0.00001
	(D * E)	0.00283	0.00286	0.00291
	(D * !E)	0.00207	0.00211	0.00215
	(D * !E)	0.00003	0.00003	0.00003
	(D * !E)	0.00000	0.00000	0.00001
	(D * !E)	0.00283	0.00286	0.00291
	(!D * E)	0.00180	0.00184	0.00190
	(!D * E)	0.00000	0.00000	0.00001
	(!D * E)	0.00002	0.00002	0.00003
	(!D * E)	0.00250	0.00254	0.00259
	(!D * !E)	0.00207	0.00211	0.00215
	(!D * !E)	0.00003	0.00003	0.00003
	(!D * !E)	0.00000	0.00000	0.00001
	(!D * !E)	0.00283	0.00286	0.00291

Passive power(pJ) for CK falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
EDFFQX0P5H7H	(D * E)	0.00400	0.00406	0.00413
	(D * E)	-0.00001	-0.00001	-0.00001
	(D * E)	-0.00001	-0.00000	0.00000
	(D * E)	0.00336	0.00343	0.00350
	(D * !E)	0.00251	0.00255	0.00259
	(D * !E)	-0.00001	-0.00000	0.00001
	(D * !E)	-0.00001	-0.00000	0.00000
	(D * !E)	0.00180	0.00184	0.00187
	(!D * E)	0.00418	0.00421	0.00426
	(!D * E)	-0.00001	-0.00000	0.00000
	(!D * E)	-0.00000	-0.00000	0.00000
	(!D * E)	0.00333	0.00336	0.00341
	(!D * !E)	0.00251	0.00255	0.00260
	(!D * !E)	-0.00001	-0.00000	0.00001
	(!D * !E)	-0.00001	-0.00000	0.00000
	(!D * !E)	0.00180	0.00184	0.00188

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
EDFFQX0P5H7H	(CK * E)	0.00012	0.00013	0.00014
	(CK * E)	0.00018	0.00018	0.00020
	(CK * E)	-0.00014	-0.00014	-0.00013
	(CK * E)	0.00130	0.00131	0.00134
	(CK * !E)	-0.00020	-0.00019	-0.00017
	(CK * !E)	-0.00003	-0.00003	-0.00003
	(CK * !E)	0.00001	0.00002	0.00002
	(CK * !E)	0.00020	0.00020	0.00021
	(!CK * E)	0.00154	0.00155	0.00157
	(!CK * E)	0.00017	0.00017	0.00019
	(!CK * E)	-0.00014	-0.00014	-0.00014
	(!CK * E)	0.00272	0.00273	0.00274
	(!CK * !E)	-0.00020	-0.00019	-0.00018
	(!CK * !E)	-0.00003	-0.00003	-0.00003
	(!CK * !E)	0.00001	0.00002	0.00002
	(!CK * !E)	0.00020	0.00020	0.00021

Passive power(pJ) for D falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
EDFFQX0P5H7H	(CK * E)	0.00148	0.00149	0.00150
	(CK * E)	-0.00018	-0.00018	-0.00018
	(CK * E)	0.00013	0.00014	0.00014
	(CK * E)	0.00030	0.00031	0.00034
	(CK * !E)	0.00020	0.00020	0.00020
	(CK * !E)	0.00003	0.00003	0.00003
	(CK * !E)	-0.00002	-0.00002	-0.00001
	(CK * !E)	-0.00020	-0.00019	-0.00018
	(!CK * E)	0.00297	0.00299	0.00301
	(!CK * E)	-0.00017	-0.00017	-0.00016
	(!CK * E)	0.00014	0.00014	0.00014
	(!CK * E)	0.00180	0.00182	0.00184
	(!CK * !E)	0.00020	0.00020	0.00020
	(!CK * !E)	0.00003	0.00003	0.00003
	(!CK * !E)	-0.00002	-0.00002	-0.00001
	(!CK * !E)	-0.00020	-0.00019	-0.00018

Passive power(pJ) for E rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
EDFFQX0P5H7H	(CK * D)	-0.00018	-0.00013	-0.00006
	(CK * D)	0.00019	0.00019	0.00019
	(CK * D)	-0.00016	-0.00015	-0.00014
	(CK * D)	0.00185	0.00190	0.00196
	(CK * !D)	0.00104	0.00109	0.00114
	(CK * !D)	-0.00013	-0.00012	-0.00010
	(CK * !D)	0.00008	0.00009	0.00012
	(CK * !D)	0.00191	0.00195	0.00201
	(!CK * D)	0.00134	0.00139	0.00145
	(!CK * D)	0.00017	0.00018	0.00019
	(!CK * D)	-0.00016	-0.00015	-0.00015
	(!CK * D)	0.00336	0.00342	0.00349
	(!CK * !D)	0.00234	0.00237	0.00241
	(!CK * !D)	-0.00013	-0.00012	-0.00010
	(!CK * !D)	0.00009	0.00010	0.00012
	(!CK * !D)	0.00321	0.00323	0.00325

Passive power(pJ) for E falling (conditional):

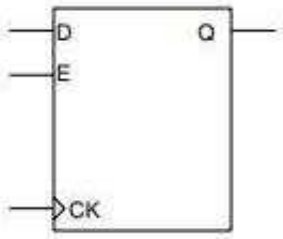
Cell Name	When	Power(pJ)		
		min	avg	max
EDFFQX0P5H7H	(CK * D)	0.00197	0.00202	0.00208
	(CK * D)	-0.00019	-0.00019	-0.00018
	(CK * D)	0.00014	0.00015	0.00016
	(CK * D)	-0.00006	-0.00001	0.00007
	(CK * !D)	0.00183	0.00186	0.00191
	(CK * !D)	0.00010	0.00012	0.00013
	(CK * !D)	-0.00010	-0.00009	-0.00008
	(CK * !D)	0.00096	0.00099	0.00104
	(!CK * D)	0.00340	0.00345	0.00353
	(!CK * D)	-0.00019	-0.00018	-0.00017
	(!CK * D)	0.00015	0.00015	0.00016
	(!CK * D)	0.00137	0.00142	0.00147
	(!CK * !D)	0.00343	0.00345	0.00349
	(!CK * !D)	0.00010	0.00012	0.00013
	(!CK * !D)	-0.00010	-0.00009	-0.00009
	(!CK * !D)	0.00257	0.00258	0.00261

EDFFQX1H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The EDFFQ cell is a positive edge-triggered, static D-type flip-flop with a synchronous, active-high enable (E). The cell has a single output (Q).



Truth Table

INPUT			OUTPUT
CK	D	E	Q
R	x	0	IQ
R	0	1	0
R	1	1	1
x	x	x	IQ

Footprint

Cell Name	Area
EDFFQX1H7H	9.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	CK	D	E	Q
EDFFQX1H7H	0.00104	0.00085	0.00230	0.05014

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
EDFFQX1H7H	0.00000	0.07361	0.07614

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
EDFFQX1H7H	CK->Q (RR)	E	0.18609	0.37559	0.81958

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
EDFFQX1H7H	CK->Q (RF)	E	0.14194	0.31269	0.69096

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
EDFFQX1H7H	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
EDFFQX1H7H	**hold**	**CK (R)**	-0.28292	-0.11445	-0.00735
	setup	**CK (R)**	0.02516	0.13521	0.31322

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
EDFFQX1H7H	**hold**	**CK (R)**	-0.31088	-0.08966	0.10186
	setup	**CK (R)**	-0.04433	0.15461	0.38401

Constraints(ns) for E rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
EDFFQX1H7H	**hold**	**CK (R)**	-0.01468	0.05879	0.19382
	setup	**CK (R)**	0.01394	0.15756	0.30390

Constraints(ns) for E falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
EDFFQX1H7H	**hold**	**CK (R)**	-0.26477	-0.06594	0.11924
	setup	**CK (R)**	0.04338	0.14680	0.29694

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
EDFFQX1H7H	CK	E	0.00552	0.00558	0.00566
	CK	E	0.00001	0.00005	0.00006
	CK	E	-0.00006	-0.00003	0.00001
	CK	E	0.00625	0.00634	0.00641

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
EDFFQX1H7H	CK	E	0.00441	0.00453	0.00465
	CK	E	-0.00005	-0.00002	-0.00001
	CK	E	0.00005	0.00005	0.00008
	CK	E	0.00510	0.00523	0.00534

Passive power(pJ) for CK rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
EDFFQX1H7H	(D * E)	0.00207	0.00211	0.00215
	(D * E)	0.00003	0.00003	0.00003
	(D * E)	0.00000	0.00000	0.00001
	(D * E)	0.00283	0.00286	0.00291
	(D * !E)	0.00207	0.00210	0.00215
	(D * !E)	0.00003	0.00003	0.00003
	(D * !E)	0.00000	0.00000	0.00001
	(D * !E)	0.00283	0.00286	0.00291
	(!D * E)	0.00180	0.00184	0.00188
	(!D * E)	0.00000	0.00000	0.00001
	(!D * E)	0.00002	0.00003	0.00003
	(!D * E)	0.00250	0.00254	0.00260
	(!D * !E)	0.00207	0.00211	0.00215
	(!D * !E)	0.00003	0.00003	0.00003
	(!D * !E)	0.00000	0.00000	0.00001
	(!D * !E)	0.00283	0.00286	0.00291

Passive power(pJ) for CK falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
EDFFQX1H7H	(D * E)	0.00400	0.00407	0.00413
	(D * E)	-0.00001	-0.00001	-0.00000
	(D * E)	-0.00001	-0.00000	0.00000
	(D * E)	0.00338	0.00344	0.00350
	(D * !E)	0.00250	0.00254	0.00258
	(D * !E)	-0.00001	0.00000	0.00001
	(D * !E)	-0.00001	-0.00000	0.00000
	(D * !E)	0.00180	0.00184	0.00187
	(!D * E)	0.00421	0.00424	0.00428
	(!D * E)	-0.00001	-0.00000	0.00000
	(!D * E)	-0.00000	0.00000	0.00000
	(!D * E)	0.00335	0.00339	0.00343
	(!D * !E)	0.00250	0.00254	0.00258
	(!D * !E)	-0.00001	0.00000	0.00001
	(!D * !E)	-0.00001	-0.00000	0.00000
	(!D * !E)	0.00180	0.00184	0.00187

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
EDFFQX1H7H	(CK * E)	0.00012	0.00013	0.00014
	(CK * E)	0.00018	0.00019	0.00020
	(CK * E)	-0.00015	-0.00014	-0.00013
	(CK * E)	0.00131	0.00132	0.00133
	(CK * !E)	-0.00020	-0.00019	-0.00017
	(CK * !E)	-0.00003	-0.00003	-0.00003
	(CK * !E)	0.00002	0.00002	0.00002
	(CK * !E)	0.00020	0.00020	0.00020
	(!CK * E)	0.00156	0.00157	0.00159
	(!CK * E)	0.00017	0.00018	0.00019
	(!CK * E)	-0.00015	-0.00014	-0.00013
	(!CK * E)	0.00274	0.00276	0.00277
	(!CK * !E)	-0.00020	-0.00019	-0.00018
	(!CK * !E)	-0.00003	-0.00003	-0.00003
	(!CK * !E)	0.00001	0.00002	0.00002
	(!CK * !E)	0.00020	0.00020	0.00021

Passive power(pJ) for D falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
EDFFQX1H7H	(CK * E)	0.00149	0.00150	0.00151
	(CK * E)	-0.00019	-0.00019	-0.00018
	(CK * E)	0.00013	0.00014	0.00015
	(CK * E)	0.00030	0.00032	0.00034
	(CK * !E)	0.00020	0.00020	0.00020
	(CK * !E)	0.00003	0.00003	0.00003
	(CK * !E)	-0.00002	-0.00002	-0.00002
	(CK * !E)	-0.00020	-0.00019	-0.00018
	(!CK * E)	0.00300	0.00302	0.00304
	(!CK * E)	-0.00018	-0.00018	-0.00017
	(!CK * E)	0.00013	0.00014	0.00015
	(!CK * E)	0.00182	0.00184	0.00186
	(!CK * !E)	0.00020	0.00020	0.00020
	(!CK * !E)	0.00003	0.00003	0.00003
	(!CK * !E)	-0.00002	-0.00002	-0.00001
	(!CK * !E)	-0.00020	-0.00019	-0.00019

Passive power(pJ) for E rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
EDFFQX1H7H	(CK * D)	-0.00018	-0.00013	-0.00006
	(CK * D)	0.00019	0.00019	0.00020
	(CK * D)	-0.00016	-0.00015	-0.00015
	(CK * D)	0.00186	0.00191	0.00197
	(CK * !D)	0.00105	0.00110	0.00115
	(CK * !D)	-0.00013	-0.00012	-0.00012
	(CK * !D)	0.00009	0.00010	0.00012
	(CK * !D)	0.00191	0.00196	0.00202
	(!CK * D)	0.00136	0.00141	0.00147
	(!CK * D)	0.00017	0.00018	0.00019
	(!CK * D)	-0.00015	-0.00015	-0.00015
	(!CK * D)	0.00339	0.00344	0.00352
	(!CK * !D)	0.00237	0.00240	0.00244
	(!CK * !D)	-0.00013	-0.00012	-0.00010
	(!CK * !D)	0.00009	0.00010	0.00012
	(!CK * !D)	0.00323	0.00325	0.00328

Passive power(pJ) for E falling (conditional):

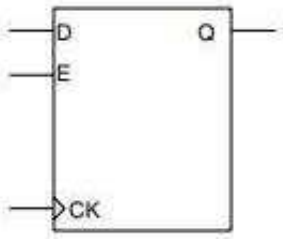
Cell Name	When	Power(pJ)		
		min	avg	max
EDFFQX1H7H	(CK * D)	0.00198	0.00202	0.00208
	(CK * D)	-0.00019	-0.00019	-0.00017
	(CK * D)	0.00015	0.00015	0.00016
	(CK * D)	-0.00006	-0.00001	0.00007
	(CK * !D)	0.00183	0.00185	0.00188
	(CK * !D)	0.00012	0.00013	0.00015
	(CK * !D)	-0.00009	-0.00009	-0.00009
	(CK * !D)	0.00097	0.00100	0.00104
	(!CK * D)	0.00342	0.00347	0.00352
	(!CK * D)	-0.00019	-0.00018	-0.00016
	(!CK * D)	0.00015	0.00015	0.00015
	(!CK * D)	0.00140	0.00145	0.00151
	(!CK * !D)	0.00345	0.00347	0.00351
	(!CK * !D)	0.00010	0.00012	0.00013
	(!CK * !D)	-0.00011	-0.00010	-0.00009
	(!CK * !D)	0.00259	0.00261	0.00263

EDFFQX2H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The EDFFQ cell is a positive edge-triggered, static D-type flip-flop with a synchronous, active-high enable (E). The cell has a single output (Q).



Truth Table

INPUT			OUTPUT
CK	D	E	Q
R	x	0	IQ
R	0	1	0
R	1	1	1
x	x	x	IQ

Footprint

Cell Name	Area
EDFFQX2H7H	9.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	CK	D	E	Q
EDFFQX2H7H	0.00104	0.00085	0.00239	0.05701

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
EDFFQX2H7H	0.00000	0.08013	0.08250

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
EDFFQX2H7H	CK->Q (RR)	E	0.18916	0.37883	0.82355

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
EDFFQX2H7H	CK->Q (RF)	E	0.13903	0.29641	0.64235

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
EDFFQX2H7H	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
EDFFQX2H7H	**hold**	**CK (R)**	-0.28791	-0.11629	-0.00844
	setup	**CK (R)**	0.02391	0.13716	0.31952

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
EDFFQX2H7H	**hold**	**CK (R)**	-0.31352	-0.09155	0.10179
	setup	**CK (R)**	-0.03960	0.15706	0.38571

Constraints(ns) for E rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
EDFFQX2H7H	**hold**	**CK (R)**	-0.01545	0.05931	0.19699
	setup	**CK (R)**	0.01459	0.15782	0.30019

Constraints(ns) for E falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
EDFFQX2H7H	**hold**	**CK (R)**	-0.25629	-0.06771	0.12075
	setup	**CK (R)**	0.04272	0.14431	0.29923

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
EDFFQX2H7H	CK	E	0.00570	0.00578	0.00587
	CK	E	0.00001	0.00005	0.00009
	CK	E	-0.00005	-0.00003	0.00001
	CK	E	0.00645	0.00654	0.00663

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
EDFFQX2H7H	CK	E	0.00467	0.00481	0.00493
	CK	E	-0.00004	-0.00002	-0.00000
	CK	E	0.00003	0.00005	0.00005
	CK	E	0.00536	0.00550	0.00562

Passive power(pJ) for CK rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
EDFFQX2H7H	(D * E)	0.00209	0.00213	0.00217
	(D * E)	0.00003	0.00003	0.00004
	(D * E)	0.00000	0.00000	0.00001
	(D * E)	0.00286	0.00289	0.00294
	(D * !E)	0.00209	0.00213	0.00217
	(D * !E)	0.00003	0.00003	0.00004
	(D * !E)	0.00000	0.00000	0.00001
	(D * !E)	0.00286	0.00289	0.00294
	(!D * E)	0.00183	0.00187	0.00191
	(!D * E)	0.00000	0.00000	0.00001
	(!D * E)	0.00003	0.00003	0.00003
	(!D * E)	0.00253	0.00257	0.00262
	(!D * !E)	0.00209	0.00213	0.00217
	(!D * !E)	0.00003	0.00003	0.00004
	(!D * !E)	0.00000	0.00000	0.00001
	(!D * !E)	0.00286	0.00289	0.00294

Passive power(pJ) for CK falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
EDFFQX2H7H	(D * E)	0.00404	0.00410	0.00417
	(D * E)	-0.00001	-0.00000	0.00000
	(D * E)	-0.00001	-0.00000	0.00000
	(D * E)	0.00342	0.00349	0.00356
	(D * !E)	0.00253	0.00256	0.00261
	(D * !E)	-0.00001	0.00000	0.00001
	(D * !E)	-0.00001	-0.00000	0.00000
	(D * !E)	0.00182	0.00186	0.00192
	(!D * E)	0.00431	0.00434	0.00439
	(!D * E)	-0.00001	-0.00000	0.00000
	(!D * E)	-0.00000	0.00000	0.00000
	(!D * E)	0.00344	0.00347	0.00352
	(!D * !E)	0.00253	0.00256	0.00261
	(!D * !E)	-0.00001	0.00000	0.00001
	(!D * !E)	-0.00001	-0.00000	0.00000
	(!D * !E)	0.00182	0.00186	0.00192

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
EDFFQX2H7H	(CK * E)	0.00013	0.00014	0.00015
	(CK * E)	0.00019	0.00019	0.00021
	(CK * E)	-0.00015	-0.00014	-0.00013
	(CK * E)	0.00133	0.00134	0.00135
	(CK * !E)	-0.00020	-0.00019	-0.00017
	(CK * !E)	-0.00003	-0.00003	-0.00003
	(CK * !E)	0.00001	0.00002	0.00002
	(CK * !E)	0.00020	0.00021	0.00021
	(!CK * E)	0.00158	0.00159	0.00160
	(!CK * E)	0.00018	0.00019	0.00020
	(!CK * E)	-0.00015	-0.00015	-0.00015
	(!CK * E)	0.00278	0.00280	0.00283
	(!CK * !E)	-0.00020	-0.00019	-0.00018
	(!CK * !E)	-0.00003	-0.00003	-0.00003
	(!CK * !E)	0.00002	0.00002	0.00002
	(!CK * !E)	0.00020	0.00021	0.00021

Passive power(pJ) for D falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
EDFFQX2H7H	(CK * E)	0.00150	0.00152	0.00154
	(CK * E)	-0.00021	-0.00019	-0.00019
	(CK * E)	0.00013	0.00014	0.00015
	(CK * E)	0.00031	0.00032	0.00035
	(CK * !E)	0.00020	0.00020	0.00020
	(CK * !E)	0.00003	0.00003	0.00003
	(CK * !E)	-0.00002	-0.00002	-0.00001
	(CK * !E)	-0.00020	-0.00019	-0.00018
	(!CK * E)	0.00308	0.00311	0.00313
	(!CK * E)	-0.00020	-0.00019	-0.00018
	(!CK * E)	0.00015	0.00015	0.00015
	(!CK * E)	0.00190	0.00191	0.00193
	(!CK * !E)	0.00020	0.00020	0.00020
	(!CK * !E)	0.00003	0.00003	0.00003
	(!CK * !E)	-0.00002	-0.00002	-0.00002
	(!CK * !E)	-0.00020	-0.00020	-0.00019

Passive power(pJ) for E rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
EDFFQX2H7H	(CK * D)	-0.00021	-0.00016	-0.00008
	(CK * D)	0.00020	0.00021	0.00021
	(CK * D)	-0.00016	-0.00016	-0.00015
	(CK * D)	0.00191	0.00196	0.00202
	(CK * !D)	0.00104	0.00109	0.00113
	(CK * !D)	-0.00013	-0.00012	-0.00011
	(CK * !D)	0.00008	0.00009	0.00012
	(CK * !D)	0.00196	0.00201	0.00206
	(!CK * D)	0.00136	0.00141	0.00147
	(!CK * D)	0.00019	0.00020	0.00021
	(!CK * D)	-0.00017	-0.00016	-0.00016
	(!CK * D)	0.00348	0.00353	0.00361
	(!CK * !D)	0.00243	0.00245	0.00249
	(!CK * !D)	-0.00013	-0.00012	-0.00012
	(!CK * !D)	0.00009	0.00010	0.00012
	(!CK * !D)	0.00335	0.00337	0.00341

Passive power(pJ) for E falling (conditional):

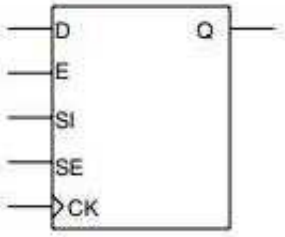
Cell Name	When	Power(pJ)		
		min	avg	max
EDFFQX2H7H	(CK * D)	0.00207	0.00212	0.00220
	(CK * D)	-0.00021	-0.00021	-0.00020
	(CK * D)	0.00015	0.00016	0.00017
	(CK * D)	-0.00005	0.00000	0.00006
	(CK * !D)	0.00189	0.00192	0.00196
	(CK * !D)	0.00011	0.00012	0.00013
	(CK * !D)	-0.00009	-0.00009	-0.00008
	(CK * !D)	0.00097	0.00099	0.00102
	(!CK * D)	0.00356	0.00363	0.00371
	(!CK * D)	-0.00021	-0.00020	-0.00019
	(!CK * D)	0.00016	0.00016	0.00017
	(!CK * D)	0.00145	0.00150	0.00158
	(!CK * !D)	0.00352	0.00354	0.00356
	(!CK * !D)	0.00012	0.00013	0.00014
	(!CK * !D)	-0.00012	-0.00010	-0.00009
	(!CK * !D)	0.00260	0.00262	0.00266

ESDFFQX0P5H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The ESDFFQ cell is a positive edge-triggered, static D-type flip-flop with scan input (SI), active-high scan enable (SE), and synchronous active-high enable (E). The cell has a single output (Q).



Truth Table

INPUT					OUTPUT
CK	D	E	SE	SI	Q
R	x	0	0	x	IQ
R	x	x	1	0	0
R	x	x	1	1	1
R	0	1	0	x	0
R	1	1	0	x	1
x	x	x	x	x	IQ

Footprint

Cell Name	Area
ESDFFQX0P5H7H	12.88000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	CK	D	E	SE	SI	Q
ESDFFQX0P5H7H	0.00111	0.00086	0.00237	0.00232	0.00092	0.04305

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
ESDFFQX0P5H7H	0.00000	0.10261	0.11230

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
ESDFFQX0P5H7H	CK->Q (RR)	SE	0.15377	0.34515	0.80014
	CK->Q (RR)	(E * !SE)	0.15374	0.34515	0.80020

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
ESDFFQX0P5H7H	CK->Q (RF)	SE	0.13685	0.30723	0.69417
	CK->Q (RF)	(E * !SE)	0.13684	0.30723	0.69417

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
ESDFFQX0P5H7H	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ESDFFQX0P5H7H	**hold**	**CK (R)**	-0.29513	-0.08235	0.10835
	setup	**CK (R)**	-0.06486	0.14158	0.36281

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ESDFFQX0P5H7H	**hold**	**CK (R)**	-0.40271	-0.20219	-0.06803
	setup	**CK (R)**	0.10081	0.24263	0.45260

Constraints(ns) for E rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ESDFFQX0P5H7H	**hold**	**CK (R)**	-0.26012	-0.05779	0.14091
	setup	**CK (R)**	0.10964	0.23162	0.36607

Constraints(ns) for E falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ESDFFQX0P5H7H	**hold**	**CK (R)**	-0.26419	-0.09894	0.07566
	setup	**CK (R)**	0.08259	0.21636	0.41459

Constraints(ns) for SE rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ESDFFQX0P5H7H	hold	CK (R)	-0.15733	-0.00207	0.17124
	setup	CK (R)	0.04181	0.16354	0.29453

Constraints(ns) for SE falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ESDFFQX0P5H7H	hold	CK (R)	-0.20518	-0.03720	0.13869
	setup	CK (R)	0.01561	0.14040	0.29890

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ESDFFQX0P5H7H	hold	CK (R)	-0.20420	-0.02270	0.15962
	setup	CK (R)	-0.11759	0.07931	0.27513

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ESDFFQX0P5H7H	hold	CK (R)	-0.31014	-0.13257	-0.00683
	setup	CK (R)	0.03634	0.17067	0.35809

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
ESDFFQX0P5H7H	CK	SE	0.00537	0.00545	0.00552
	CK	SE	0.00014	0.00017	0.00021
	CK	SE	-0.00018	-0.00014	-0.00012
	CK	SE	0.00687	0.00694	0.00699
	CK	(E * !SE)	0.00490	0.00497	0.00504
	CK	(E * !SE)	0.00000	0.00000	0.00000
	CK	(E * !SE)	-0.00000	0.00000	0.00001
	CK	(E * !SE)	0.00555	0.00564	0.00569

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
ESDFFQX0P5H7H	CK	SE	0.00544	0.00558	0.00568
	CK	SE	-0.00021	-0.00017	-0.00014
	CK	SE	0.00012	0.00014	0.00018
	CK	SE	0.00548	0.00561	0.00572
	CK	(E * !SE)	0.00404	0.00417	0.00427
	CK	(E * !SE)	0.00000	0.00000	0.00000
	CK	(E * !SE)	-0.00001	-0.00000	0.00000
	CK	(E * !SE)	0.00489	0.00502	0.00512

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
ESDFFQX0P5H7H	0.00175	0.00179	0.00183
	0.00000	0.00000	0.00000
	-0.00002	-0.00002	-0.00001
	0.00252	0.00256	0.00261

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
ESDFFQX0P5H7H	0.00449	0.00454	0.00460
	0.00000	0.00000	0.00000
	0.00006	0.00007	0.00007
	0.00362	0.00368	0.00375

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
ESDFFQX0P5H7H	0.00215	0.00217	0.00219
	0.00023	0.00024	0.00025
	-0.00020	-0.00019	-0.00018
	0.00393	0.00396	0.00399

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
ESDFFQX0P5H7H	0.00423	0.00426	0.00428
	-0.00025	-0.00024	-0.00023
	0.00018	0.00019	0.00020
	0.00246	0.00248	0.00249

Passive power(pJ) for E rising :

Cell Name	Power(pJ)		
	min	avg	max
ESDFFQX0P5H7H	0.00350	0.00352	0.00354
	-0.00019	-0.00018	-0.00016
	0.00011	0.00013	0.00014
	0.00375	0.00378	0.00381

Passive power(pJ) for E falling :

Cell Name	Power(pJ)		
	min	avg	max
ESDFFQX0P5H7H	0.00402	0.00404	0.00407
	0.00016	0.00018	0.00020
	-0.00014	-0.00013	-0.00011
	0.00376	0.00378	0.00380

Passive power(pJ) for SE rising :

Cell Name	Power(pJ)		
	min	avg	max
ESDFFQX0P5H7H	0.00278	0.00280	0.00283
	-0.00003	-0.00002	-0.00001
	0.00001	0.00003	0.00004
	0.00372	0.00374	0.00377

Passive power(pJ) for SE falling :

Cell Name	Power(pJ)		
	min	avg	max
ESDFFQX0P5H7H	0.00354	0.00358	0.00370
	0.00001	0.00002	0.00004
	-0.00004	-0.00003	-0.00001
	0.00261	0.00266	0.00277

Passive power(pJ) for SI rising :

Cell Name	Power(pJ)		
	min	avg	max
ESDFFQX0P5H7H	0.00172	0.00176	0.00179
	0.00008	0.00009	0.00010
	-0.00008	-0.00007	-0.00007
	0.00282	0.00286	0.00290

Passive power(pJ) for SI falling :

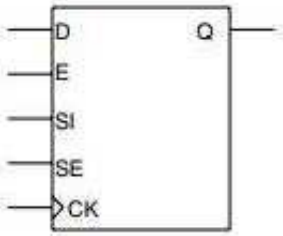
Cell Name	Power(pJ)		
	min	avg	max
ESDFFQX0P5H7H	0.00326	0.00330	0.00334
	-0.00010	-0.00009	-0.00008
	0.00007	0.00007	0.00008
	0.00216	0.00220	0.00224

ESDFFQX1H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The ESDFFQ cell is a positive edge-triggered, static D-type flip-flop with scan input (SI), active-high scan enable (SE), and synchronous active-high enable (E). The cell has a single output (Q).



Truth Table

INPUT					OUTPUT
CK	D	E	SE	SI	Q
R	x	0	0	x	IQ
R	x	x	1	0	0
R	x	x	1	1	1
R	0	1	0	x	0
R	1	1	0	x	1
x	x	x	x	x	IQ

Footprint

Cell Name	Area
ESDFFQX1H7H	12.88000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	CK	D	E	SE	SI	Q
ESDFFQX1H7H	0.00100	0.00092	0.00228	0.00225	0.00081	0.07972

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
ESDFFQX1H7H	0.00000	28.35580	36.11860

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
ESDFFQX1H7H	CK->Q (RR)	SE	0.10086	0.25652	0.61877
	CK->Q (RR)	(E * !SE)	0.10087	0.25653	0.61872

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
ESDFFQX1H7H	CK->Q (RF)	SE	0.08972	0.22770	0.53289
	CK->Q (RF)	(E * !SE)	0.08973	0.22772	0.53289

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
ESDFFQX1H7H	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ESDFFQX1H7H	**hold**	**CK (R)**	-0.12084	-0.04788	0.01498
	setup	**CK (R)**	0.01306	0.08721	0.16899

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ESDFFQX1H7H	**hold**	**CK (R)**	-0.23861	-0.13304	-0.08182
	setup	**CK (R)**	0.10454	0.15834	0.27106

Constraints(ns) for E rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ESDFFQX1H7H	**hold**	**CK (R)**	-0.08493	-0.02237	0.04374
	setup	**CK (R)**	0.10973	0.14067	0.17818

Constraints(ns) for E falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ESDFFQX1H7H	**hold**	**CK (R)**	-0.17331	-0.07782	-0.00620
	setup	**CK (R)**	0.09015	0.14430	0.25823

Constraints(ns) for SE rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ESDFFQX1H7H	hold	CK (R)	-0.04118	-0.00172	0.04992
	setup	CK (R)	0.07297	0.10315	0.13601

Constraints(ns) for SE falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ESDFFQX1H7H	hold	CK (R)	-0.13440	-0.03850	0.03342
	setup	CK (R)	0.05150	0.10532	0.20931

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ESDFFQX1H7H	hold	CK (R)	-0.05846	-0.01117	0.04326
	setup	CK (R)	-0.01535	0.04881	0.10502

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ESDFFQX1H7H	hold	CK (R)	-0.18780	-0.09388	-0.04942
	setup	CK (R)	0.06993	0.11790	0.21883

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
ESDFFQX1H7H	CK	SE	0.00657	0.00696	0.00816
	CK	SE	0.00794	0.00830	0.00948
	CK	(E * !SE)	0.00568	0.00604	0.00721
	CK	(E * !SE)	0.00648	0.00683	0.00800

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
ESDFFQX1H7H	CK	SE	0.00734	0.00787	0.00912
	CK	SE	0.00776	0.00827	0.00952
	CK	(E * !SE)	0.00611	0.00643	0.00769
	CK	(E * !SE)	0.00706	0.00738	0.00864

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
ESDFFQX1H7H	0.00229	0.00257	0.00360
	0.00316	0.00345	0.00447

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
ESDFFQX1H7H	0.00595	0.00624	0.00732
	0.00508	0.00537	0.00645

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
ESDFFQX1H7H	0.00400	0.00421	0.00496
	0.00574	0.00594	0.00670

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
ESDFFQX1H7H	0.00538	0.00560	0.00645
	0.00364	0.00386	0.00472

Passive power(pJ) for E rising :

Cell Name	Power(pJ)		
	min	avg	max
ESDFFQX1H7H	0.00367	0.00429	0.00648
	0.00633	0.00695	0.00914

Passive power(pJ) for E falling :

Cell Name	Power(pJ)		
	min	avg	max
ESDFFQX1H7H	0.00597	0.00668	0.00912
	0.00332	0.00402	0.00646

Passive power(pJ) for SE rising :

Cell Name	Power(pJ)		
	min	avg	max
ESDFFQX1H7H	0.00303	0.00368	0.00593
	0.00514	0.00579	0.00804

Passive power(pJ) for SE falling :

Cell Name	Power(pJ)		
	min	avg	max
ESDFFQX1H7H	0.00518	0.00585	0.00788
	0.00397	0.00465	0.00670

Passive power(pJ) for SI rising :

Cell Name	Power(pJ)		
	min	avg	max
ESDFFQX1H7H	0.00315	0.00338	0.00422
	0.00423	0.00446	0.00530

Passive power(pJ) for SI falling :

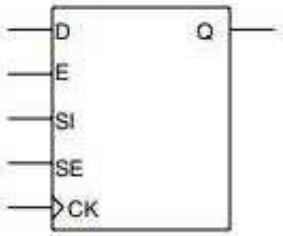
Cell Name	Power(pJ)		
	min	avg	max
ESDFFQX1H7H	0.00430	0.00456	0.00549
	0.00322	0.00348	0.00442

ESDFFQX2H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The ESDFFQ cell is a positive edge-triggered, static D-type flip-flop with scan input (SI), active-high scan enable (SE), and synchronous active-high enable (E). The cell has a single output (Q).



Truth Table

INPUT					OUTPUT
CK	D	E	SE	SI	Q
R	x	0	0	x	IQ
R	x	x	1	0	0
R	x	x	1	1	1
R	0	1	0	x	0
R	1	1	0	x	1
x	x	x	x	x	IQ

Footprint

Cell Name	Area
ESDFFQX2H7H	12.88000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	CK	D	E	SE	SI	Q
ESDFFQX2H7H	0.00111	0.00090	0.00239	0.00234	0.00092	0.06395

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
ESDFFQX2H7H	0.00000	0.12091	0.14060

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
ESDFFQX2H7H	CK->Q (RR)	SE	0.15191	0.34371	0.79966
	CK->Q (RR)	(E * !SE)	0.15191	0.34371	0.79975

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
ESDFFQX2H7H	CK->Q (RF)	SE	0.13372	0.30150	0.68224
	CK->Q (RF)	(E * !SE)	0.13373	0.30149	0.68206

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
ESDFFQX2H7H	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ESDFFQX2H7H	**hold**	**CK (R)**	-0.29297	-0.08312	0.10458
	setup	**CK (R)**	-0.06137	0.14691	0.36781

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ESDFFQX2H7H	**hold**	**CK (R)**	-0.40468	-0.20657	-0.07602
	setup	**CK (R)**	0.11241	0.25208	0.46303

Constraints(ns) for E rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ESDFFQX2H7H	**hold**	**CK (R)**	-0.25944	-0.05804	0.14063
	setup	**CK (R)**	0.12280	0.24093	0.37222

Constraints(ns) for E falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ESDFFQX2H7H	**hold**	**CK (R)**	-0.27197	-0.10679	0.06980
	setup	**CK (R)**	0.09653	0.22782	0.42894

Constraints(ns) for SE rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ESDFFQX2H7H	hold	CK (R)	-0.16460	-0.00782	0.16643
	setup	CK (R)	0.05859	0.17701	0.31108

Constraints(ns) for SE falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ESDFFQX2H7H	hold	CK (R)	-0.20881	-0.04095	0.13472
	setup	CK (R)	0.02566	0.15099	0.31212

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ESDFFQX2H7H	hold	CK (R)	-0.21073	-0.02844	0.15183
	setup	CK (R)	-0.11012	0.08979	0.28520

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ESDFFQX2H7H	hold	CK (R)	-0.31617	-0.14084	-0.01499
	setup	CK (R)	0.04910	0.18463	0.37052

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
ESDFFQX2H7H	CK	SE	0.00564	0.00575	0.00585
	CK	SE	0.00014	0.00018	0.00023
	CK	SE	-0.00016	-0.00014	-0.00010
	CK	SE	0.00719	0.00728	0.00737
	CK	(E * !SE)	0.00518	0.00526	0.00537
	CK	(E * !SE)	0.00000	0.00000	0.00000
	CK	(E * !SE)	-0.00001	0.00000	0.00002
	CK	(E * !SE)	0.00587	0.00595	0.00604

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
ESDFFQX2H7H	CK	SE	0.00588	0.00604	0.00617
	CK	SE	-0.00023	-0.00018	-0.00014
	CK	SE	0.00010	0.00014	0.00016
	CK	SE	0.00588	0.00605	0.00618
	CK	(E * !SE)	0.00444	0.00461	0.00473
	CK	(E * !SE)	0.00000	0.00000	0.00000
	CK	(E * !SE)	-0.00002	-0.00000	0.00001
	CK	(E * !SE)	0.00529	0.00545	0.00557

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
ESDFFQX2H7H	0.00177	0.00181	0.00185
	0.00000	0.00000	0.00000
	-0.00002	-0.00002	-0.00001
	0.00254	0.00258	0.00264

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
ESDFFQX2H7H	0.00491	0.00496	0.00502
	0.00000	0.00000	0.00000
	0.00005	0.00006	0.00007
	0.00405	0.00410	0.00418

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
ESDFFQX2H7H	0.00255	0.00258	0.00260
	0.00026	0.00026	0.00027
	-0.00021	-0.00020	-0.00020
	0.00443	0.00446	0.00448

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
ESDFFQX2H7H	0.00464	0.00467	0.00469
	-0.00027	-0.00026	-0.00026
	0.00020	0.00021	0.00022
	0.00277	0.00279	0.00281

Passive power(pJ) for E rising :

Cell Name	Power(pJ)		
	min	avg	max
ESDFFQX2H7H	0.00237	0.00242	0.00249
	0.00025	0.00027	0.00028
	0.00000	0.00000	0.00000
	0.00503	0.00509	0.00518

Passive power(pJ) for E falling :

Cell Name	Power(pJ)		
	min	avg	max
ESDFFQX2H7H	0.00444	0.00445	0.00447
	0.00019	0.00020	0.00022
	0.00000	0.00000	0.00000
	0.00423	0.00425	0.00428

Passive power(pJ) for SE rising :

Cell Name	Power(pJ)		
	min	avg	max
ESDFFQX2H7H	0.00314	0.00316	0.00319
	-0.00005	-0.00004	-0.00003
	0.00003	0.00004	0.00006
	0.00405	0.00407	0.00409

Passive power(pJ) for SE falling :

Cell Name	Power(pJ)		
	min	avg	max
ESDFFQX2H7H	0.00395	0.00400	0.00412
	0.00003	0.00004	0.00006
	-0.00005	-0.00004	-0.00003
	0.00306	0.00309	0.00321

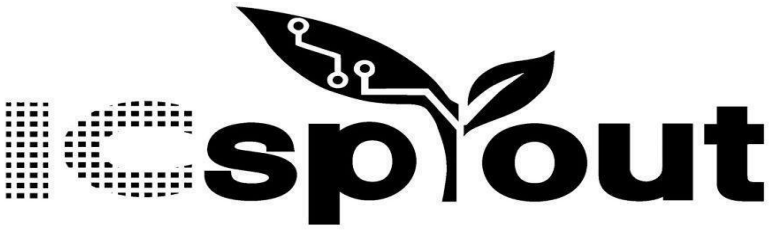
Passive power(pJ) for SI rising :

Cell Name	Power(pJ)		
	min	avg	max
ESDFFQX2H7H	0.00211	0.00215	0.00218
	0.00010	0.00010	0.00011
	-0.00009	-0.00008	-0.00008
	0.00325	0.00329	0.00333

Passive power(pJ) for SI falling :

Cell Name	Power(pJ)		
	min	avg	max
ESDFFQX2H7H	0.00361	0.00365	0.00369
	-0.00011	-0.00010	-0.00010
	0.00008	0.00008	0.00009
	0.00248	0.00251	0.00255

FILLCAP16H7H



tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Footprint

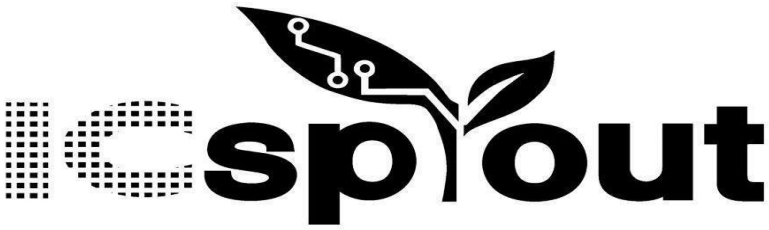
Cell Name	Area
FILLCAP16H7H	4.48000

Pin Capacitance Information

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
FILLCAP16H7H	0.00000	0.18823	0.18823

FILLCAP32H7H



tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Footprint

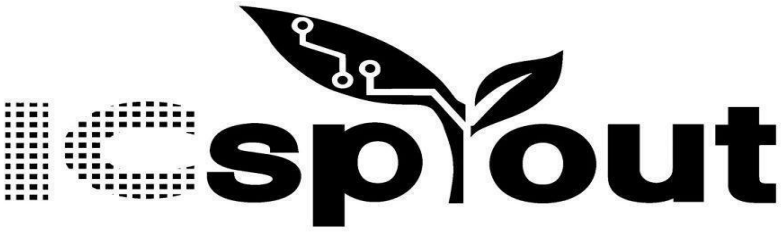
Cell Name	Area
FILLCAP32H7H	8.96000

Pin Capacitance Information

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
FILLCAP32H7H	0.00000	0.41597	0.41597

FILLCAP4H7H



tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Footprint

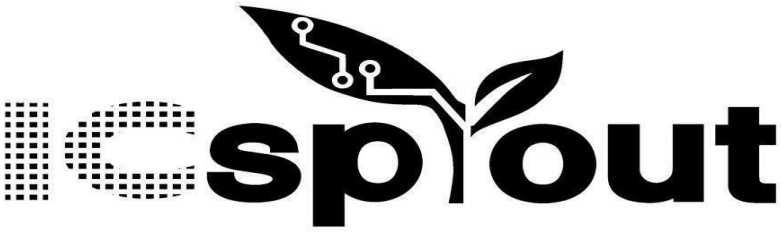
Cell Name	Area
FILLCAP4H7H	1.12000

Pin Capacitance Information

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
FILLCAP4H7H	0.00000	0.02067	0.02067

FILLCAP8H7H



tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Footprint

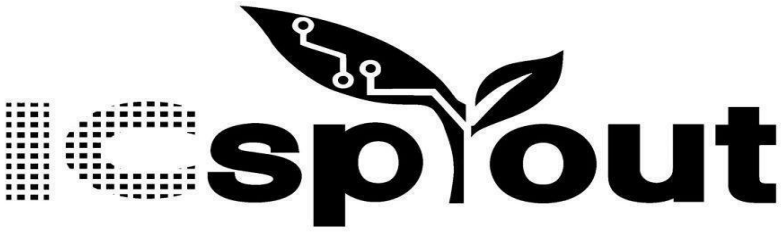
Cell Name	Area
FILLCAP8H7H	2.24000

Pin Capacitance Information

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
FILLCAP8H7H	0.00000	0.07487	0.07487

ICGNX0P5H7H



tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Negative edge-triggered clock-gating Latch, In: E, CKN, Out: ECK

Truth Table

INPUT		OUTPUT
CKN	E	ECK
x	x	-

Footprint

Cell Name	Area
ICGNX0P5H7H	5.60000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	CKN	E	ECK
ICGNX0P5H7H	0.00216	0.00089	0.04311

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
ICGNX0P5H7H	0.00000	0.05248	0.05756

Delay Information

Delay(ns) to ECK rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
ICGNX0P5H7H	CKN->ECK (RR)	0.04346	0.20932	0.61419

Delay(ns) to ECK falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
ICGNX0P5H7H	CKN->ECK (FF)	0.07286	0.21683	0.56456

Constraint Information

Min Pulse Width (ns) for CKN:

Cell Name	High	Low
ICGNX0P5H7H	0.9851	0.9851

Constraints(ns) for E rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ICGNX0P5H7H	**hold**	**CKN (F)**	-0.11433	0.04363	0.21817
	setup	**CKN (F)**	0.03243	0.13550	0.33592

Constraints(ns) for E falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ICGNX0P5H7H	**hold**	**CKN (F)**	-0.09564	-0.00087	0.09836
	setup	**CKN (F)**	0.03684	0.10612	0.26560

Power Information

Internal switching power(pJ) to ECK rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
ICGNX0P5H7H	CKN	0.00394	0.00413	0.00433
	CKN	-0.00002	-0.00000	0.00000
	CKN	0.00002	0.00004	0.00006
	CKN	0.00523	0.00542	0.00562

Internal switching power(pJ) to ECK falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
ICGNX0P5H7H	CKN	0.00353	0.00366	0.00381
	CKN	0.00000	0.00000	0.00002
	CKN	-0.00001	0.00003	0.00005
	CKN	0.00195	0.00207	0.00223

Passive power(pJ) for CKN rising :

Cell Name	Power(pJ)		
	min	avg	max
ICGNX0P5H7H	0.00308	0.00312	0.00317
	0.00002	0.00003	0.00003
	-0.00001	-0.00000	0.00000
	0.00448	0.00452	0.00457

Passive power(pJ) for CKN falling :

Cell Name	Power(pJ)		
	min	avg	max
ICGNX0P5H7H	0.00212	0.00217	0.00225
	0.00004	0.00005	0.00005
	0.00000	0.00000	0.00001
	0.00095	0.00100	0.00106

Passive power(pJ) for E rising :

Cell Name	Power(pJ)		
	min	avg	max
ICGNX0P5H7H	0.00116	0.00118	0.00120
	0.00011	0.00011	0.00011
	-0.00006	-0.00006	-0.00006
	0.00201	0.00204	0.00206

Passive power(pJ) for E falling :

Cell Name	Power(pJ)		
	min	avg	max
ICGNX0P5H7H	0.00230	0.00233	0.00236
	-0.00011	-0.00011	-0.00011
	0.00006	0.00006	0.00006
	0.00144	0.00146	0.00149

ICGNX1H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Negative edge-triggered clock-gating Latch, In: E, CKN, Out: ECK

Truth Table

INPUT		OUTPUT
CKN	E	ECK
x	x	-

Footprint

Cell Name	Area
ICGNX1H7H	5.60000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	CKN	E	ECK
ICGNX1H7H	0.00216	0.00089	0.05058

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
ICGNX1H7H	0.00000	0.05708	0.05763

Delay Information

Delay(ns) to ECK rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
ICGNX1H7H	CKN->ECK (RR)	0.04293	0.21018	0.61813

Delay(ns) to ECK falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
ICGNX1H7H	CKN->ECK (FF)	0.07422	0.22154	0.57699

Constraint Information

Min Pulse Width (ns) for CKN:

Cell Name	High	Low
ICGNX1H7H	0.9851	0.9851

Constraints(ns) for E rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ICGNX1H7H	**hold**	**CKN (F)**	-0.11433	0.04380	0.21817
	setup	**CKN (F)**	0.02736	0.13458	0.33592

Constraints(ns) for E falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ICGNX1H7H	**hold**	**CKN (F)**	-0.09686	-0.00099	0.09705
	setup	**CKN (F)**	0.03550	0.10586	0.26701

Power Information

Internal switching power(pJ) to ECK rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
ICGNX1H7H	CKN	0.00401	0.00420	0.00441
	CKN	-0.00001	-0.00000	0.00000
	CKN	0.00003	0.00004	0.00006
	CKN	0.00528	0.00548	0.00569

Internal switching power(pJ) to ECK falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
ICGNX1H7H	CKN	0.00359	0.00372	0.00387
	CKN	0.00000	0.00000	0.00001
	CKN	-0.00000	0.00003	0.00006
	CKN	0.00201	0.00214	0.00230

Passive power(pJ) for CKN rising :

Cell Name	Power(pJ)		
	min	avg	max
ICGNX1H7H	0.00309	0.00312	0.00318
	0.00002	0.00002	0.00003
	0.00000	0.00000	0.00000
	0.00449	0.00453	0.00459

Passive power(pJ) for CKN falling :

Cell Name	Power(pJ)		
	min	avg	max
ICGNX1H7H	0.00212	0.00217	0.00223
	0.00003	0.00004	0.00005
	0.00000	0.00000	0.00000
	0.00095	0.00100	0.00107

Passive power(pJ) for E rising :

Cell Name	Power(pJ)		
	min	avg	max
ICGNX1H7H	0.00116	0.00118	0.00121
	0.00011	0.00011	0.00011
	-0.00006	-0.00006	-0.00006
	0.00201	0.00204	0.00206

Passive power(pJ) for E falling :

Cell Name	Power(pJ)		
	min	avg	max
ICGNX1H7H	0.00229	0.00232	0.00235
	-0.00011	-0.00011	-0.00011
	0.00006	0.00006	0.00006
	0.00144	0.00146	0.00148

ICGNX2H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Negative edge-triggered clock-gating Latch, In: E, CKN, Out: ECK

Truth Table

INPUT		OUTPUT
CKN	E	ECK
x	x	-

Footprint

Cell Name	Area
ICGNX2H7H	5.88000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	CKN	E	ECK
ICGNX2H7H	0.00217	0.00090	0.06434

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
ICGNX2H7H	0.00000	0.05414	0.06548

Delay Information

Delay(ns) to ECK rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
ICGNX2H7H	CKN->ECK (RR)	0.04693	0.21951	0.63991

Delay(ns) to ECK falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
ICGNX2H7H	CKN->ECK (FF)	0.08335	0.23201	0.58919

Constraint Information

Min Pulse Width (ns) for CKN:

Cell Name	High	Low
ICGNX2H7H	0.9851	0.9851

Constraints(ns) for E rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ICGNX2H7H	**hold**	**CKN (F)**	-0.11433	0.04363	0.21817
	setup	**CKN (F)**	0.01834	0.12961	0.33332

Constraints(ns) for E falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ICGNX2H7H	**hold**	**CKN (F)**	-0.09967	-0.00275	0.10003
	setup	**CKN (F)**	0.03640	0.10572	0.26422

Power Information

Internal switching power(pJ) to ECK rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
ICGNX2H7H	CKN	0.00423	0.00444	0.00467
	CKN	-0.00001	-0.00001	0.00000
	CKN	0.00005	0.00005	0.00006
	CKN	0.00550	0.00571	0.00594

Internal switching power(pJ) to ECK falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
ICGNX2H7H	CKN	0.00389	0.00405	0.00422
	CKN	0.00000	0.00001	0.00001
	CKN	-0.00002	0.00002	0.00005
	CKN	0.00233	0.00248	0.00266

Passive power(pJ) for CKN rising :

Cell Name	Power(pJ)		
	min	avg	max
ICGNX2H7H	0.00308	0.00311	0.00316
	0.00002	0.00003	0.00004
	0.00000	0.00000	0.00000
	0.00447	0.00451	0.00457

Passive power(pJ) for CKN falling :

Cell Name	Power(pJ)		
	min	avg	max
ICGNX2H7H	0.00212	0.00217	0.00223
	0.00004	0.00005	0.00006
	0.00000	0.00000	0.00000
	0.00095	0.00100	0.00109

Passive power(pJ) for E rising :

Cell Name	Power(pJ)		
	min	avg	max
ICGNX2H7H	0.00116	0.00118	0.00120
	0.00011	0.00011	0.00011
	-0.00006	-0.00006	-0.00006
	0.00201	0.00204	0.00206

Passive power(pJ) for E falling :

Cell Name	Power(pJ)		
	min	avg	max
ICGNX2H7H	0.00230	0.00233	0.00236
	-0.00011	-0.00011	-0.00011
	0.00006	0.00006	0.00006
	0.00144	0.00146	0.00148

ICGNX3H7H

Cell Description

Negative edge-triggered clock-gating Latch, In: E, CKN, Out: ECK

Truth Table

INPUT		OUTPUT
CKN	E	ECK
x	x	-

Footprint

Cell Name	Area
ICGNX3H7H	5.88000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	CKN	E	ECK
ICGNX3H7H	0.00224	0.00089	0.09170

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
ICGNX3H7H	0.00000	0.06459	0.06903

Delay Information

Delay(ns) to ECK rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
ICGNX3H7H	CKN->ECK (RR)	0.04509	0.21996	0.64507

Delay(ns) to ECK falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
ICGNX3H7H	CKN->ECK (FF)	0.08296	0.23907	0.61292

Constraint Information

Min Pulse Width (ns) for CKN:

Cell Name	High	Low
ICGNX3H7H	0.9851	0.9851

Constraints(ns) for E rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ICGNX3H7H	**hold**	**CKN (F)**	-0.11207	0.04428	0.21803
	setup	**CKN (F)**	0.01631	0.13022	0.33536

Constraints(ns) for E falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ICGNX3H7H	**hold**	**CKN (F)**	-0.10182	-0.00393	0.09997
	setup	**CKN (F)**	0.03822	0.10763	0.27037

Power Information

Internal switching power(pJ) to ECK rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
ICGNX3H7H	CKN	0.00442	0.00465	0.00489
	CKN	-0.00006	-0.00003	-0.00000
	CKN	0.00001	0.00006	0.00013
	CKN	0.00572	0.00595	0.00618

Internal switching power(pJ) to ECK falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
ICGNX3H7H	CKN	0.00404	0.00421	0.00441
	CKN	0.00000	0.00003	0.00006
	CKN	-0.00003	0.00000	0.00003
	CKN	0.00245	0.00262	0.00281

Passive power(pJ) for CKN rising :

Cell Name	Power(pJ)		
	min	avg	max
ICGNX3H7H	0.00314	0.00317	0.00323
	0.00000	0.00001	0.00002
	-0.00001	-0.00000	0.00000
	0.00457	0.00461	0.00468

Passive power(pJ) for CKN falling :

Cell Name	Power(pJ)		
	min	avg	max
ICGNX3H7H	0.00213	0.00218	0.00224
	0.00004	0.00005	0.00006
	0.00000	0.00000	0.00001
	0.00092	0.00097	0.00102

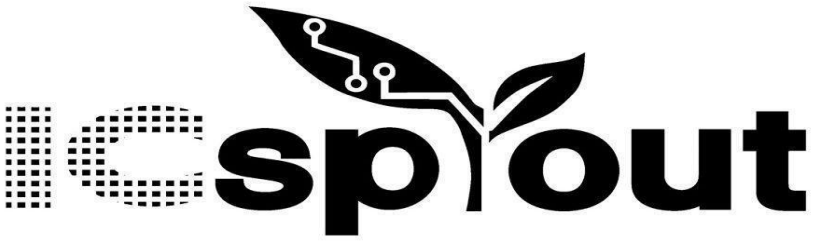
Passive power(pJ) for E rising :

Cell Name	Power(pJ)		
	min	avg	max
ICGNX3H7H	0.00120	0.00122	0.00124
	0.00011	0.00012	0.00012
	-0.00006	-0.00006	-0.00006
	0.00205	0.00208	0.00210

Passive power(pJ) for E falling :

Cell Name	Power(pJ)		
	min	avg	max
ICGNX3H7H	0.00230	0.00233	0.00236
	-0.00012	-0.00012	-0.00011
	0.00006	0.00006	0.00007
	0.00144	0.00146	0.00148

ICGNX4H7H



Cell Description

Negative edge-triggered clock-gating Latch, In: E, CKN, Out: ECK

Truth Table

INPUT		OUTPUT
CKN	E	ECK
x	x	-

Footprint

Cell Name	Area
ICGNX4H7H	6.16000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	CKN	E	ECK
ICGNX4H7H	0.00224	0.00089	0.12241

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
ICGNX4H7H	0.00000	0.08380	0.08380

Delay Information

Delay(ns) to ECK rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
ICGNX4H7H	CKN->ECK (RR)	0.04756	0.22506	0.65624

Delay(ns) to ECK falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
ICGNX4H7H	CKN->ECK (FF)	0.09323	0.25985	0.65886

Constraint Information

Min Pulse Width (ns) for CKN:

Cell Name	High	Low
ICGNX4H7H	0.9851	0.9851

Constraints(ns) for E rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ICGNX4H7H	**hold**	**CKN (F)**	-0.11280	0.04394	0.21808
	setup	**CKN (F)**	0.00699	0.12622	0.33284

Constraints(ns) for E falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ICGNX4H7H	**hold**	**CKN (F)**	-0.10351	-0.00386	0.10077
	setup	**CKN (F)**	0.03645	0.10793	0.26835

Power Information

Internal switching power(pJ) to ECK rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
ICGNX4H7H	CKN	0.00474	0.00500	0.00525
	CKN	-0.00015	-0.00005	-0.00001
	CKN	0.00008	0.00009	0.00057
	CKN	0.00577	0.00624	0.00650

Internal switching power(pJ) to ECK falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
ICGNX4H7H	CKN	0.00433	0.00452	0.00476
	CKN	0.00001	0.00005	0.00015
	CKN	-0.00004	0.00007	0.00410
	CKN	-0.00077	0.00288	0.00318

Passive power(pJ) for CKN rising :

Cell Name	Power(pJ)		
	min	avg	max
ICGNX4H7H	0.00316	0.00320	0.00326
	0.00000	0.00001	0.00001
	0.00000	0.00000	0.00000
	0.00459	0.00462	0.00467

Passive power(pJ) for CKN falling :

Cell Name	Power(pJ)		
	min	avg	max
ICGNX4H7H	0.00212	0.00217	0.00225
	0.00003	0.00005	0.00005
	0.00000	0.00000	0.00000
	0.00092	0.00097	0.00103

Passive power(pJ) for E rising :

Cell Name	Power(pJ)		
	min	avg	max
ICGNX4H7H	0.00120	0.00122	0.00125
	0.00011	0.00011	0.00012
	-0.00006	-0.00006	-0.00006
	0.00205	0.00208	0.00210

Passive power(pJ) for E falling :

Cell Name	Power(pJ)		
	min	avg	max
ICGNX4H7H	0.00230	0.00233	0.00235
	-0.00012	-0.00011	-0.00011
	0.00006	0.00006	0.00007
	0.00144	0.00147	0.00149

ICGX0P5H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Positive edge-triggered clock-gating Latch, In: E, CK, Out: ECK

Truth Table

INPUT		OUTPUT
CK	E	ECK
x	x	-

Footprint

Cell Name	Area
ICGX0P5H7H	6.16000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	CK	E	ECK
ICGX0P5H7H	0.00190	0.00086	0.04264

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
ICGX0P5H7H	0.00000	0.05122	0.05767

Delay Information

Delay(ns) to ECK rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
ICGX0P5H7H	CK->ECK (RR)	0.05465	0.21788	0.61606

Delay(ns) to ECK falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
ICGX0P5H7H	CK->ECK (FF)	0.05024	0.19256	0.53608

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
ICGX0P5H7H	0.9851	0.9851

Constraints(ns) for E rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ICGX0P5H7H	**hold**	**CK (R)**	-0.18103	-0.04800	0.04849
	setup	**CK (R)**	0.07032	0.13936	0.27903

Constraints(ns) for E falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ICGX0P5H7H	**hold**	**CK (R)**	-0.17822	-0.00083	0.15787
	setup	**CK (R)**	-0.05707	0.07242	0.23598

Power Information

Internal switching power(pJ) to ECK rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
ICGX0P5H7H	CK	0.00207	0.00219	0.00232
	CK	0.00000	0.00002	0.00005
	CK	-0.00004	-0.00000	0.00004
	CK	0.00347	0.00358	0.00372

Internal switching power(pJ) to ECK falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
ICGX0P5H7H	CK	0.00481	0.00495	0.00514
	CK	-0.00005	-0.00002	0.00000
	CK	0.00001	0.00004	0.00006
	CK	0.00328	0.00342	0.00359

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
ICGX0P5H7H	0.00144	0.00149	0.00156
	-0.00002	-0.00001	-0.00001
	0.00002	0.00003	0.00005
	0.00257	0.00262	0.00267

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
ICGX0P5H7H	0.00382	0.00388	0.00397
	0.00011	0.00012	0.00013
	-0.00005	-0.00003	-0.00002
	0.00296	0.00303	0.00311

Passive power(pJ) for E rising :

Cell Name	Power(pJ)		
	min	avg	max
ICGX0P5H7H	0.00125	0.00128	0.00130
	0.00007	0.00007	0.00007
	-0.00004	-0.00004	-0.00003
	0.00195	0.00198	0.00200

Passive power(pJ) for E falling :

Cell Name	Power(pJ)		
	min	avg	max
ICGX0P5H7H	0.00186	0.00189	0.00192
	-0.00007	-0.00007	-0.00007
	0.00003	0.00004	0.00004
	0.00116	0.00119	0.00121

ICGX1H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Positive edge-triggered clock-gating Latch, In: E, CK, Out: ECK

Truth Table

INPUT		OUTPUT
CK	E	ECK
x	x	-

Footprint

Cell Name	Area
ICGX1H7H	6.16000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	CK	E	ECK
ICGX1H7H	0.00194	0.00086	0.05005

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
ICGX1H7H	0.00000	0.05437	0.06396

Delay Information

Delay(ns) to ECK rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
ICGX1H7H	CK->ECK (RR)	0.05216	0.21543	0.61319

Delay(ns) to ECK falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
ICGX1H7H	CK->ECK (FF)	0.05056	0.19542	0.54494

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
ICGX1H7H	0.9851	0.9851

Constraints(ns) for E rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ICGX1H7H	**hold**	**CK (R)**	-0.18103	-0.04736	0.05074
	setup	**CK (R)**	0.06941	0.13848	0.27848

Constraints(ns) for E falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ICGX1H7H	**hold**	**CK (R)**	-0.17553	-0.00087	0.15787
	setup	**CK (R)**	-0.05478	0.07329	0.23671

Power Information

Internal switching power(pJ) to ECK rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
ICGX1H7H	CK	0.00212	0.00224	0.00237
	CK	-0.00002	0.00001	0.00003
	CK	0.00000	0.00000	0.00005
	CK	0.00353	0.00365	0.00378

Internal switching power(pJ) to ECK falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
ICGX1H7H	CK	0.00313	0.00325	0.00338
	CK	0.00004	0.00004	0.00004
	CK	-0.00002	-0.00000	0.00002
	CK	0.00178	0.00190	0.00203

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
ICGX1H7H	0.00144	0.00149	0.00155
	-0.00002	-0.00001	-0.00000
	0.00001	0.00003	0.00003
	0.00259	0.00264	0.00272

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
ICGX1H7H	0.00379	0.00386	0.00393
	0.00011	0.00012	0.00013
	-0.00003	-0.00003	-0.00001
	0.00292	0.00299	0.00310

Passive power(pJ) for E rising :

Cell Name	Power(pJ)		
	min	avg	max
ICGX1H7H	0.00124	0.00127	0.00130
	0.00007	0.00007	0.00007
	-0.00004	-0.00003	-0.00003
	0.00194	0.00197	0.00199

Passive power(pJ) for E falling :

Cell Name	Power(pJ)		
	min	avg	max
ICGX1H7H	0.00184	0.00187	0.00189
	-0.00007	-0.00007	-0.00007
	0.00003	0.00003	0.00004
	0.00115	0.00118	0.00121

ICGX2H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Positive edge-triggered clock-gating Latch, In: E, CK, Out: ECK

Truth Table

INPUT		OUTPUT
CK	E	ECK
x	x	-

Footprint

Cell Name	Area
ICGX2H7H	6.44000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	CK	E	ECK
ICGX2H7H	0.00206	0.00086	0.05692

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
ICGX2H7H	0.00000	0.05660	0.07075

Delay Information

Delay(ns) to ECK rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
ICGX2H7H	CK->ECK (RR)	0.05355	0.21809	0.61871

Delay(ns) to ECK falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
ICGX2H7H	CK->ECK (FF)	0.05212	0.19936	0.55467

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
ICGX2H7H	0.9851	0.9851

Constraints(ns) for E rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ICGX2H7H	**hold**	**CK (R)**	-0.18103	-0.04647	0.05300
	setup	**CK (R)**	0.06426	0.13671	0.27892

Constraints(ns) for E falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ICGX2H7H	**hold**	**CK (R)**	-0.17599	0.00037	0.16015
	setup	**CK (R)**	-0.05894	0.07106	0.23417

Power Information

Internal switching power(pJ) to ECK rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
ICGX2H7H	CK	0.00217	0.00230	0.00244
	CK	0.00000	0.00000	0.00004
	CK	-0.00002	0.00001	0.00001
	CK	0.00366	0.00379	0.00393

Internal switching power(pJ) to ECK falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
ICGX2H7H	CK	0.00494	0.00510	0.00528
	CK	-0.00004	-0.00000	-0.00000
	CK	0.00000	0.00004	0.00009
	CK	0.00332	0.00347	0.00365

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
ICGX2H7H	0.00142	0.00147	0.00155
	-0.00003	-0.00002	-0.00001
	0.00002	0.00003	0.00006
	0.00264	0.00269	0.00274

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
ICGX2H7H	0.00383	0.00390	0.00399
	0.00011	0.00011	0.00012
	-0.00006	-0.00003	-0.00002
	0.00288	0.00295	0.00305

Passive power(pJ) for E rising :

Cell Name	Power(pJ)		
	min	avg	max
ICGX2H7H	0.00123	0.00126	0.00128
	0.00007	0.00007	0.00008
	-0.00004	-0.00003	-0.00003
	0.00192	0.00196	0.00199

Passive power(pJ) for E falling :

Cell Name	Power(pJ)		
	min	avg	max
ICGX2H7H	0.00185	0.00188	0.00191
	-0.00007	-0.00007	-0.00007
	0.00003	0.00003	0.00004
	0.00116	0.00119	0.00122

ICGX3H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Positive edge-triggered clock-gating Latch, In: E, CK, Out: ECK

Truth Table

INPUT		OUTPUT
CK	E	ECK
x	x	-

Footprint

Cell Name	Area
ICGX3H7H	6.72000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	CK	E	ECK
ICGX3H7H	0.00211	0.00086	0.09014

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
ICGX3H7H	0.00000	0.06576	0.07006

Delay Information

Delay(ns) to ECK rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
ICGX3H7H	CK->ECK (RR)	0.05688	0.22754	0.64076

Delay(ns) to ECK falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
ICGX3H7H	CK->ECK (FF)	0.06366	0.22137	0.59949

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
ICGX3H7H	0.9851	0.9851

Constraints(ns) for E rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ICGX3H7H	**hold**	**CK (R)**	-0.18103	-0.04622	0.05300
	setup	**CK (R)**	0.06001	0.13503	0.27970

Constraints(ns) for E falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ICGX3H7H	**hold**	**CK (R)**	-0.17591	0.00134	0.16211
	setup	**CK (R)**	-0.07232	0.06582	0.23363

Power Information

Internal switching power(pJ) to ECK rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
ICGX3H7H	CK	0.00260	0.00276	0.00294
	CK	0.00000	0.00000	0.00000
	CK	0.00002	0.00002	0.00008
	CK	0.00408	0.00425	0.00443

Internal switching power(pJ) to ECK falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
ICGX3H7H	CK	0.00546	0.00565	0.00584
	CK	0.00000	0.00000	0.00000
	CK	0.00001	0.00002	0.00006
	CK	0.00385	0.00403	0.00423

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
ICGX3H7H	0.00140	0.00146	0.00152
	-0.00001	-0.00001	-0.00000
	0.00002	0.00004	0.00004
	0.00264	0.00270	0.00278

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
ICGX3H7H	0.00386	0.00394	0.00402
	0.00011	0.00011	0.00013
	-0.00004	-0.00004	-0.00002
	0.00292	0.00299	0.00308

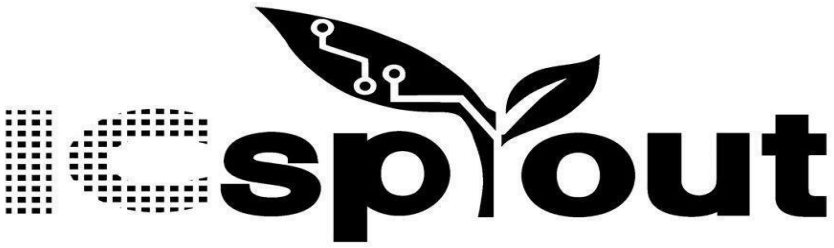
Passive power(pJ) for E rising :

Cell Name	Power(pJ)		
	min	avg	max
ICGX3H7H	0.00125	0.00128	0.00130
	0.00007	0.00007	0.00007
	-0.00003	-0.00003	-0.00003
	0.00194	0.00197	0.00201

Passive power(pJ) for E falling :

Cell Name	Power(pJ)		
	min	avg	max
ICGX3H7H	0.00186	0.00189	0.00191
	-0.00007	-0.00007	-0.00007
	0.00003	0.00003	0.00003
	0.00117	0.00120	0.00123

ICGX4H7H



tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Positive edge-triggered clock-gating Latch, In: E, CK, Out: ECK

Truth Table

INPUT		OUTPUT
CK	E	ECK
x	x	-

Footprint

Cell Name	Area
ICGX4H7H	6.72000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	CK	E	ECK
ICGX4H7H	0.00211	0.00086	0.11310

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
ICGX4H7H	0.00000	0.07322	0.09284

Delay Information

Delay(ns) to ECK rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
ICGX4H7H	CK->ECK (RR)	0.06012	0.23360	0.65208

Delay(ns) to ECK falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
ICGX4H7H	CK->ECK (FF)	0.06795	0.22952	0.61546

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
ICGX4H7H	0.9851	0.9851

Constraints(ns) for E rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ICGX4H7H	**hold**	**CK (R)**	-0.18103	-0.04630	0.05300
	setup	**CK (R)**	0.05785	0.13314	0.27722

Constraints(ns) for E falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ICGX4H7H	**hold**	**CK (R)**	-0.17240	0.00166	0.16328
	setup	**CK (R)**	-0.08229	0.06086	0.22794

Power Information

Internal switching power(pJ) to ECK rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
ICGX4H7H	CK	0.00282	0.00301	0.00320
	CK	-0.00004	-0.00000	0.00000
	CK	0.00003	0.00004	0.00009
	CK	0.00427	0.00445	0.00465

Internal switching power(pJ) to ECK falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
ICGX4H7H	CK	0.00563	0.00583	0.00604
	CK	0.00000	0.00000	0.00004
	CK	-0.00003	0.00000	0.00007
	CK	0.00405	0.00426	0.00447

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
ICGX4H7H	0.00140	0.00145	0.00153
	-0.00002	-0.00002	-0.00001
	0.00004	0.00004	0.00005
	0.00263	0.00268	0.00274

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
ICGX4H7H	0.00386	0.00393	0.00401
	0.00011	0.00012	0.00013
	-0.00005	-0.00004	-0.00004
	0.00292	0.00299	0.00307

Passive power(pJ) for E rising :

Cell Name	Power(pJ)		
	min	avg	max
ICGX4H7H	0.00125	0.00128	0.00130
	0.00007	0.00007	0.00008
	-0.00003	-0.00003	-0.00003
	0.00194	0.00197	0.00201

Passive power(pJ) for E falling :

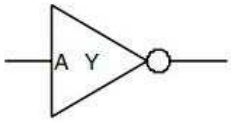
Cell Name	Power(pJ)		
	min	avg	max
ICGX4H7H	0.00186	0.00189	0.00193
	-0.00008	-0.00007	-0.00007
	0.00003	0.00003	0.00003
	0.00117	0.00120	0.00123

INVX0P5H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The INV cell provides the logical inversion of a single input (A). The output (Y) is represented by the logic equation:



Truth Table

INPUT	OUTPUT
A	Y
0	1
1	0

Footprint

Cell Name	Area
INVX0P5H7H	0.84000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
INVX0P5H7H	0.00088	0.03030

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
INVX0P5H7H	0.00000	0.00585	0.00728

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
INVX0P5H7H	**A->Y (FR)**	0.02338	0.20176	0.75188

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
INVX0P5H7H	**A->Y (RF)**	0.01743	0.15247	0.60428

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
INVX0P5H7H	A	0.00048	0.00053	0.00057
	A	-0.00002	-0.00002	-0.00002
	A	0.00002	0.00002	0.00002
	A	-0.00017	-0.00013	-0.00009

Internal switching power(pJ) to Y falling :

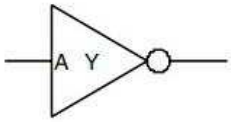
Cell Name	Input	Power(pJ)		
		min	avg	max
INVX0P5H7H	A	-0.00012	-0.00008	-0.00005
	A	0.00002	0.00002	0.00002
	A	-0.00002	-0.00002	-0.00002
	A	0.00047	0.00057	0.00061

INVX0P7H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The INV cell provides the logical inversion of a single input (A). The output (Y) is represented by the logic equation:



Truth Table

INPUT	OUTPUT
A	Y
0	1
1	0

Footprint

Cell Name	Area
INVX0P7H7H	0.84000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
INVX0P7H7H	0.00094	0.03450

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
INVX0P7H7H	0.00000	0.00671	0.00679

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
INVX0P7H7H	**A->Y (FR)**	0.02161	0.20011	0.75174

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
INVX0P7H7H	**A->Y (RF)**	0.01637	0.15251	0.61091

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
INVX0P7H7H	A	0.00050	0.00056	0.00060
	A	-0.00002	-0.00002	-0.00002
	A	0.00002	0.00002	0.00003
	A	-0.00019	-0.00015	-0.00011

Internal switching power(pJ) to Y falling :

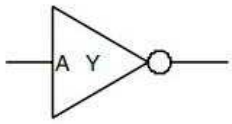
Cell Name	Input	Power(pJ)		
		min	avg	max
INVX0P7H7H	A	-0.00013	-0.00009	-0.00006
	A	0.00002	0.00002	0.00002
	A	-0.00003	-0.00002	-0.00002
	A	0.00055	0.00062	0.00065

INVX10H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The INV cell provides the logical inversion of a single input (A). The output (Y) is represented by the logic equation:



Truth Table

INPUT	OUTPUT
A	Y
0	1
1	0

Footprint

Cell Name	Area
INVX10H7H	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
INVX10H7H	0.00607	0.27272

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
INVX10H7H	0.00000	0.07477	0.10466

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
INVX10H7H	**A->Y (FR)**	0.01353	0.19206	0.75653

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
INVX10H7H	**A->Y (RF)**	0.01111	0.14597	0.61398

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
INVX10H7H	A	0.00334	0.00361	0.00392
	A	-0.00022	-0.00022	-0.00021
	A	0.00020	0.00020	0.00021
	A	-0.00140	-0.00107	-0.00081

Internal switching power(pJ) to Y falling :

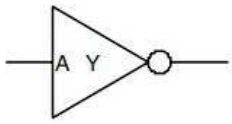
Cell Name	Input	Power(pJ)		
		min	avg	max
INVX10H7H	A	-0.00102	-0.00070	-0.00050
	A	0.00021	0.00022	0.00022
	A	-0.00021	-0.00020	-0.00020
	A	0.00304	0.00393	0.00423

INVX12H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The INV cell provides the logical inversion of a single input (A). The output (Y) is represented by the logic equation:



Truth Table

INPUT	OUTPUT
A	Y
0	1
1	0

Footprint

Cell Name	Area
INVX12H7H	4.76000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
INVX12H7H	0.00996	0.36367

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
INVX12H7H	0.00000	0.07015	0.08739

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
INVX12H7H	**A->Y (FR)**	0.01482	0.19162	0.75122

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
INVX12H7H	**A->Y (RF)**	0.01186	0.14435	0.60386

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
INVX12H7H	A	0.00505	0.00567	0.00616
	A	-0.00024	-0.00024	-0.00023
	A	0.00025	0.00026	0.00026
	A	-0.00237	-0.00183	-0.00141

Internal switching power(pJ) to Y falling :

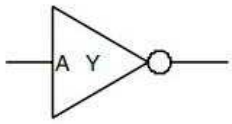
Cell Name	Input	Power(pJ)		
		min	avg	max
INVX12H7H	A	-0.00150	-0.00097	-0.00064
	A	0.00023	0.00024	0.00025
	A	-0.00026	-0.00026	-0.00024
	A	0.00526	0.00647	0.00693

INVX16H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The INV cell provides the logical inversion of a single input (A). The output (Y) is represented by the logic equation:



Truth Table

INPUT	OUTPUT
A	Y
0	1
1	0

Footprint

Cell Name	Area
INVX16H7H	5.04000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
INVX16H7H	0.01106	0.34827

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
INVX16H7H	0.00000	0.11984	0.16833

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
INVX16H7H	**A->Y (FR)**	0.01682	0.19682	0.75852

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
INVX16H7H	**A->Y (RF)**	0.01037	0.11046	0.49362

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
INVX16H7H	A	0.00598	0.00643	0.00706
	A	-0.00028	-0.00027	-0.00026
	A	0.00039	0.00041	0.00042
	A	-0.00260	-0.00204	-0.00147

Internal switching power(pJ) to Y falling :

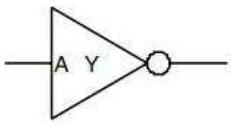
Cell Name	Input	Power(pJ)		
		min	avg	max
INVX16H7H	A	-0.00152	-0.00098	-0.00063
	A	0.00026	0.00027	0.00028
	A	-0.00042	-0.00041	-0.00039
	A	0.00665	0.00742	0.00786

INVX1H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The INV cell provides the logical inversion of a single input (A). The output (Y) is represented by the logic equation:



Truth Table

INPUT	OUTPUT
A	Y
0	1
1	0

Footprint

Cell Name	Area
INVX1H7H	0.84000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
INVX1H7H	0.00096	0.04128

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
INVX1H7H	0.00000	0.00877	0.00969

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
INVX1H7H	**A->Y (FR)**	0.01886	0.19745	0.75339

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
INVX1H7H	**A->Y (RF)**	0.01487	0.15448	0.62344

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
INVX1H7H	A	0.00050	0.00057	0.00062
	A	-0.00003	-0.00003	-0.00003
	A	0.00003	0.00003	0.00003
	A	-0.00020	-0.00016	-0.00013

Internal switching power(pJ) to Y falling :

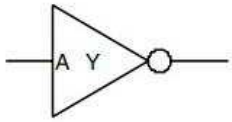
Cell Name	Input	Power(pJ)		
		min	avg	max
INVX1H7H	A	-0.00014	-0.00010	-0.00007
	A	0.00003	0.00003	0.00003
	A	-0.00003	-0.00003	-0.00003
	A	0.00052	0.00062	0.00067

INVX1P4H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The INV cell provides the logical inversion of a single input (A). The output (Y) is represented by the logic equation:



Truth Table

INPUT	OUTPUT
A	Y
0	1
1	0

Footprint

Cell Name	Area
INVX1P4H7H	0.84000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
INVX1P4H7H	0.00107	0.04703

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
INVX1P4H7H	0.00000	0.01156	0.01511

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
INVX1P4H7H	**A->Y (FR)**	0.01806	0.19708	0.75516

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
INVX1P4H7H	**A->Y (RF)**	0.01446	0.15526	0.62886

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
INVX1P4H7H	A	0.00057	0.00064	0.00069
	A	-0.00004	-0.00004	-0.00003
	A	0.00003	0.00003	0.00003
	A	-0.00023	-0.00018	-0.00014

Internal switching power(pJ) to Y falling :

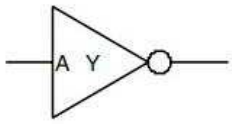
Cell Name	Input	Power(pJ)		
		min	avg	max
INVX1P4H7H	A	-0.00017	-0.00012	-0.00008
	A	0.00003	0.00004	0.00004
	A	-0.00003	-0.00003	-0.00003
	A	0.00055	0.00070	0.00075

INVX20H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The INV cell provides the logical inversion of a single input (A). The output (Y) is represented by the logic equation:



Truth Table

INPUT	OUTPUT
A	Y
0	1
1	0

Footprint

Cell Name	Area
INVX20H7H	4.20000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
INVX20H7H	0.01151	0.54517

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
INVX20H7H	0.00000	0.15845	0.22764

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
INVX20H7H	**A->Y (FR)**	0.01260	0.19067	0.75598

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
INVX20H7H	**A->Y (RF)**	0.01057	0.14672	0.62004

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
INVX20H7H	A	0.00613	0.00683	0.00741
	A	-0.00045	-0.00044	-0.00042
	A	0.00040	0.00040	0.00041
	A	-0.00268	-0.00207	-0.00160

Internal switching power(pJ) to Y falling :

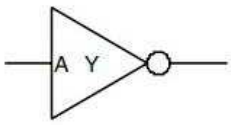
Cell Name	Input	Power(pJ)		
		min	avg	max
INVX20H7H	A	-0.00200	-0.00138	-0.00099
	A	0.00042	0.00044	0.00045
	A	-0.00041	-0.00040	-0.00040
	A	0.00621	0.00745	0.00800

INVX2H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The INV cell provides the logical inversion of a single input (A). The output (Y) is represented by the logic equation:



Truth Table

INPUT	OUTPUT
A	Y
0	1
1	0

Footprint

Cell Name	Area
INVX2H7H	1.12000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
INVX2H7H	0.00167	0.06059

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
INVX2H7H	0.00000	0.01169	0.01457

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
INVX2H7H	**A->Y (FR)**	0.01886	0.19648	0.75084

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
INVX2H7H	**A->Y (RF)**	0.01446	0.14828	0.60397

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
INVX2H7H	A	0.00092	0.00100	0.00108
	A	-0.00004	-0.00004	-0.00004
	A	0.00004	0.00004	0.00004
	A	-0.00034	-0.00026	-0.00019

Internal switching power(pJ) to Y falling :

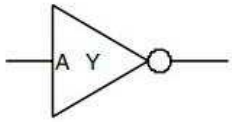
Cell Name	Input	Power(pJ)		
		min	avg	max
INVX2H7H	A	-0.00024	-0.00016	-0.00011
	A	0.00004	0.00004	0.00004
	A	-0.00004	-0.00004	-0.00004
	A	0.00089	0.00109	0.00116

INVX2P5H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The INV cell provides the logical inversion of a single input (A). The output (Y) is represented by the logic equation:



Truth Table

INPUT	OUTPUT
A	Y
0	1
1	0

Footprint

Cell Name	Area
INVX2P5H7H	1.12000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
INVX2P5H7H	0.00181	0.07379

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
INVX2P5H7H	0.00000	0.01471	0.01471

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
INVX2P5H7H	A->Y (FR)	0.01647	0.19408	0.75193

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
INVX2P5H7H	A->Y (RF)	0.01310	0.14915	0.61528

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
INVX2P5H7H	A	0.00090	0.00103	0.00111
	A	-0.00005	-0.00005	-0.00005
	A	0.00005	0.00005	0.00005
	A	-0.00043	-0.00034	-0.00028

Internal switching power(pJ) to Y falling :

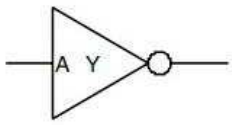
Cell Name	Input	Power(pJ)		
		min	avg	max
INVX2P5H7H	A	-0.00027	-0.00018	-0.00013
	A	0.00005	0.00005	0.00005
	A	-0.00005	-0.00005	-0.00005
	A	0.00103	0.00118	0.00126

INVX3H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The INV cell provides the logical inversion of a single input (A). The output (Y) is represented by the logic equation:



Truth Table

INPUT	OUTPUT
A	Y
0	1
1	0

Footprint

Cell Name	Area
INVX3H7H	1.40000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
INVX3H7H	0.00225	0.09097

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
INVX3H7H	0.00000	0.02434	0.02434

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
INVX3H7H	**A->Y (FR)**	0.01673	0.19368	0.75011

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
INVX3H7H	**A->Y (RF)**	0.01391	0.15742	0.63778

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
INVX3H7H	A	0.00126	0.00139	0.00150
	A	-0.00006	-0.00006	-0.00006
	A	0.00006	0.00006	0.00006
	A	-0.00042	-0.00030	-0.00022

Internal switching power(pJ) to Y falling :

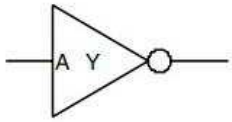
Cell Name	Input	Power(pJ)		
		min	avg	max
INVX3H7H	A	-0.00035	-0.00023	-0.00016
	A	0.00006	0.00006	0.00006
	A	-0.00006	-0.00006	-0.00006
	A	0.00114	0.00145	0.00155

INVX3P5H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The INV cell provides the logical inversion of a single input (A). The output (Y) is represented by the logic equation:



Truth Table

INPUT	OUTPUT
A	Y
0	1
1	0

Footprint

Cell Name	Area
INVX3P5H7H	1.40000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
INVX3P5H7H	0.00240	0.09804

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
INVX3P5H7H	0.00000	0.01631	0.01631

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
INVX3P5H7H	**A->Y (FR)**	0.01579	0.19453	0.75533

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
INVX3P5H7H	**A->Y (RF)**	0.01215	0.14152	0.59322

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
INVX3P5H7H	A	0.00125	0.00137	0.00149
	A	-0.00008	-0.00008	-0.00007
	A	0.00007	0.00007	0.00007
	A	-0.00057	-0.00045	-0.00036

Internal switching power(pJ) to Y falling :

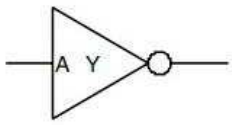
Cell Name	Input	Power(pJ)		
		min	avg	max
INVX3P5H7H	A	-0.00036	-0.00025	-0.00018
	A	0.00007	0.00008	0.00008
	A	-0.00007	-0.00007	-0.00007
	A	0.00125	0.00156	0.00167

INVX4H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The INV cell provides the logical inversion of a single input (A). The output (Y) is represented by the logic equation:



Truth Table

INPUT	OUTPUT
A	Y
0	1
1	0

Footprint

Cell Name	Area
INVX4H7H	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
INVX4H7H	0.00326	0.12126

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
INVX4H7H	0.00000	0.02338	0.02913

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
INVX4H7H	**A->Y (FR)**	0.01615	0.19319	0.75126

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
INVX4H7H	**A->Y (RF)**	0.01269	0.14564	0.60347

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
INVX4H7H	A	0.00172	0.00188	0.00203
	A	-0.00008	-0.00008	-0.00008
	A	0.00008	0.00009	0.00009
	A	-0.00075	-0.00058	-0.00045

Internal switching power(pJ) to Y falling :

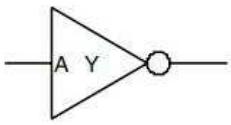
Cell Name	Input	Power(pJ)		
		min	avg	max
INVX4H7H	A	-0.00048	-0.00032	-0.00021
	A	0.00008	0.00008	0.00008
	A	-0.00009	-0.00009	-0.00008
	A	0.00167	0.00212	0.00227

INVX5H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The INV cell provides the logical inversion of a single input (A). The output (Y) is represented by the logic equation:



Truth Table

INPUT	OUTPUT
A	Y
0	1
1	0

Footprint

Cell Name	Area
INVX5H7H	1.40000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
INVX5H7H	0.00308	0.14158

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
INVX5H7H	0.00000	0.03598	0.04777

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
INVX5H7H	**A->Y (FR)**	0.01416	0.19217	0.75489

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
INVX5H7H	**A->Y (RF)**	0.01171	0.15002	0.62537

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
INVX5H7H	A	0.00163	0.00183	0.00197
	A	-0.00011	-0.00011	-0.00010
	A	0.00010	0.00010	0.00010
	A	-0.00070	-0.00054	-0.00042

Internal switching power(pJ) to Y falling :

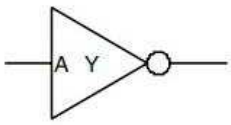
Cell Name	Input	Power(pJ)		
		min	avg	max
INVX5H7H	A	-0.00051	-0.00035	-0.00025
	A	0.00010	0.00011	0.00011
	A	-0.00010	-0.00010	-0.00010
	A	0.00156	0.00199	0.00215

INVX6H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The INV cell provides the logical inversion of a single input (A). The output (Y) is represented by the logic equation:



Truth Table

INPUT	OUTPUT
A	Y
0	1
1	0

Footprint

Cell Name	Area
INVX6H7H	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
INVX6H7H	0.00487	0.18192

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
INVX6H7H	0.00000	0.03508	0.04370

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
INVX6H7H	**A->Y (FR)**	0.01539	0.19230	0.75052

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
INVX6H7H	**A->Y (RF)**	0.01221	0.14494	0.60383

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
INVX6H7H	A	0.00257	0.00280	0.00305
	A	-0.00012	-0.00012	-0.00011
	A	0.00012	0.00013	0.00014
	A	-0.00113	-0.00087	-0.00067

Internal switching power(pJ) to Y falling :

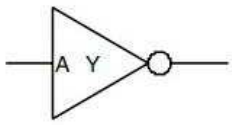
Cell Name	Input	Power(pJ)		
		min	avg	max
INVX6H7H	A	-0.00073	-0.00048	-0.00032
	A	0.00011	0.00012	0.00012
	A	-0.00013	-0.00013	-0.00012
	A	0.00255	0.00317	0.00339

INVX7H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The INV cell provides the logical inversion of a single input (A). The output (Y) is represented by the logic equation:



Truth Table

INPUT	OUTPUT
A	Y
0	1
1	0

Footprint

Cell Name	Area
INVX7H7H	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
INVX7H7H	0.00500	0.21804

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
INVX7H7H	0.00000	0.05804	0.08006

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
INVX7H7H	**A->Y (FR)**	0.01403	0.19273	0.75658

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
INVX7H7H	**A->Y (RF)**	0.01138	0.14556	0.61182

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
INVX7H7H	A	0.00275	0.00297	0.00323
	A	-0.00018	-0.00017	-0.00017
	A	0.00015	0.00016	0.00017
	A	-0.00113	-0.00086	-0.00065

Internal switching power(pJ) to Y falling :

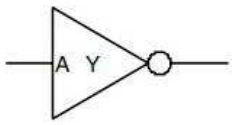
Cell Name	Input	Power(pJ)		
		min	avg	max
INVX7H7H	A	-0.00082	-0.00056	-0.00040
	A	0.00017	0.00017	0.00018
	A	-0.00017	-0.00016	-0.00015
	A	0.00271	0.00324	0.00346

INVX8H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The INV cell provides the logical inversion of a single input (A). The output (Y) is represented by the logic equation:



Truth Table

INPUT	OUTPUT
A	Y
0	1
1	0

Footprint

Cell Name	Area
INVX8H7H	3.64000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
INVX8H7H	0.00645	0.24255

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
INVX8H7H	0.00000	0.04677	0.05826

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
INVX8H7H	**A->Y (FR)**	0.01481	0.19156	0.75121

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
INVX8H7H	**A->Y (RF)**	0.01184	0.14429	0.60340

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
INVX8H7H	A	0.00334	0.00366	0.00400
	A	-0.00017	-0.00016	-0.00015
	A	0.00016	0.00017	0.00019
	A	-0.00156	-0.00120	-0.00094

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
INVX8H7H	A	-0.00097	-0.00064	-0.00043
	A	0.00015	0.00016	0.00017
	A	-0.00018	-0.00017	-0.00016
	A	0.00329	0.00418	0.00448

LATHRX0P5H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Latch

Q = !RN ? 0 : G ? D : pre_Q

QN = !Q

Truth Table

INPUT			OUTPUT	
D	G	RN	Q	QN
x	x	0	0	1
x	0	1	IQ	IQN
0	1	1	0	1
1	1	1	1	0

Footprint

Cell Name	Area
LATHRX0P5H7H	5.88000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)	
	D	**G**	**RN**	**Q**	**QN**
LATHRX0P5H7H	0.00093	0.00114	0.00113	0.04244	0.04258

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
LATHRX0P5H7H	0.00000	0.05740	0.07257

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHRX0P5H7H	D->Q (RR)	-	0.12607	0.31909	0.78034
	G->Q (RR)	RN	0.15102	0.33958	0.76650
	RN->Q (RR)	-	0.12838	0.32198	0.78263

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHRX0P5H7H	D->Q (FF)	-	0.10761	0.27812	0.67495
	G->Q (RF)	RN	0.13675	0.29836	0.65713
	RN->Q (FF)	-	0.09349	0.26849	0.68588

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHRX0P5H7H	D->QN (FR)	-	0.16223	0.34079	0.79104
	G->QN (RR)	RN	0.19165	0.36292	0.78757
	RN->QN (FR)	-	0.14512	0.33141	0.80103

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHRX0P5H7H	D->QN (RF)	-	0.18157	0.32948	0.69645
	G->QN (RF)	RN	0.20712	0.35086	0.69054
	RN->QN (RF)	-	0.18388	0.33229	0.70013

Constraint Information

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATHRX0P5H7H	hold	G (F)	-0.23951	-0.04188	0.13414
	setup	G (F)	-0.08078	0.07367	0.27978

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATHRX0P5H7H	hold	G (F)	-0.22668	-0.07190	0.04013
	setup	G (F)	0.05053	0.12118	0.28194

Min Pulse Width (ns) for G:

Cell Name	High	Low
LATHRX0P5H7H	0.9851	-

Constraints(ns) for RN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATHRX0P5H7H	recovery	G (F)	-0.07582	0.07616	0.28246
	removal	G (F)	-0.24654	-0.04613	0.12716

Min Pulse Width (ns) for RN:

Cell Name	High	Low
LATHRX0P5H7H	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHRX0P5H7H	D	-	0.00123	0.00128	0.00133
	D	-	0.00006	0.00007	0.00007
	D	-	-0.00004	-0.00004	-0.00004
	D	-	0.00170	0.00175	0.00180
	G	RN	0.00173	0.00178	0.00183
	G	RN	0.00003	0.00003	0.00004
	G	RN	-0.00002	-0.00001	0.00000
	G	RN	0.00228	0.00233	0.00238
	RN	-	0.00124	0.00130	0.00135
	RN	-	0.00006	0.00007	0.00007
	RN	-	-0.00006	-0.00005	-0.00004
	RN	-	0.00191	0.00197	0.00202

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHRX0P5H7H	D	-	0.00158	0.00164	0.00169
	D	-	-0.00007	-0.00007	-0.00006
	D	-	0.00004	0.00004	0.00005
	D	-	0.00112	0.00118	0.00123
	G	RN	0.00175	0.00184	0.00191
	G	RN	-0.00004	-0.00003	-0.00003
	G	RN	0.00000	0.00001	0.00002
	G	RN	0.00208	0.00216	0.00224
	RN	-	0.00167	0.00175	0.00181
	RN	-	-0.00006	-0.00004	-0.00002
	RN	-	0.00004	0.00005	0.00006
	RN	-	0.00114	0.00121	0.00128

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHRX0P5H7H	D	-	0.00158	0.00164	0.00169
	D	-	-0.00007	-0.00007	-0.00006
	D	-	0.00004	0.00004	0.00004
	D	-	0.00112	0.00118	0.00123
	G	RN	0.00176	0.00184	0.00191
	G	RN	-0.00003	-0.00003	-0.00003
	G	RN	0.00001	0.00001	0.00001
	G	RN	0.00208	0.00216	0.00224
	RN	-	0.00167	0.00175	0.00181
	RN	-	-0.00006	-0.00005	-0.00003
	RN	-	0.00004	0.00005	0.00008
	RN	-	0.00114	0.00121	0.00128

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHRX0P5H7H	D	-	0.00123	0.00128	0.00133
	D	-	0.00006	0.00007	0.00007
	D	-	-0.00004	-0.00004	-0.00004
	D	-	0.00170	0.00175	0.00180
	G	RN	0.00173	0.00178	0.00183
	G	RN	0.00003	0.00003	0.00003
	G	RN	-0.00001	-0.00001	-0.00001
	G	RN	0.00227	0.00233	0.00238
	RN	-	0.00124	0.00130	0.00135
	RN	-	0.00006	0.00007	0.00007
	RN	-	-0.00008	-0.00005	-0.00004
	RN	-	0.00191	0.00197	0.00202

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
LATHRX0P5H7H	-0.00004	-0.00002	0.00001
	0.00007	0.00007	0.00007
	-0.00007	-0.00006	-0.00006
	0.00070	0.00072	0.00075

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
LATHRX0P5H7H	0.00063	0.00065	0.00069
	-0.00007	-0.00007	-0.00006
	0.00006	0.00006	0.00007
	-0.00012	-0.00010	-0.00006

Passive power(pJ) for G rising :

Cell Name	Power(pJ)		
	min	avg	max
LATHRX0P5H7H	0.00084	0.00089	0.00094
	-0.00000	0.00000	0.00001
	-0.00001	-0.00000	0.00000
	0.00173	0.00177	0.00184

Passive power(pJ) for G falling :

Cell Name	Power(pJ)		
	min	avg	max
LATHRX0P5H7H	0.00197	0.00200	0.00206
	0.00000	0.00001	0.00001
	0.00000	0.00000	0.00001
	0.00110	0.00114	0.00119

Passive power(pJ) for RN rising :

Cell Name	Power(pJ)		
	min	avg	max
LATHRX0P5H7H	-0.00021	-0.00021	-0.00021
	-0.00001	-0.00001	-0.00000
	0.00002	0.00002	0.00002
	0.00039	0.00039	0.00040

Passive power(pJ) for RN falling :

Cell Name	Power(pJ)		
	min	avg	max
LATHRX0P5H7H	0.00021	0.00021	0.00022
	0.00000	0.00001	0.00001
	-0.00002	-0.00002	-0.00002
	-0.00039	-0.00038	-0.00035

LATHRX1H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Latch

Q = !RN ? 0 : G ? D : pre_Q

QN = !Q

Truth Table

INPUT			OUTPUT	
D	G	RN	Q	QN
x	x	0	0	1
x	0	1	IQ	IQN
0	1	1	0	1
1	1	1	1	0

Footprint

Cell Name	Area
LATHRX1H7H	5.88000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)	
	D	**G**	**RN**	**Q**	**QN**
LATHRX1H7H	0.00093	0.00114	0.00113	0.04978	0.04993

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
LATHRX1H7H	0.00000	0.06382	0.07864

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHRX1H7H	D->Q (RR)	-	0.12576	0.32067	0.78407
	G->Q (RR)	RN	0.15080	0.34100	0.76882
	RN->Q (RR)	-	0.12811	0.32347	0.78592

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHRX1H7H	D->Q (FF)	-	0.10778	0.28165	0.68454
	G->Q (RF)	RN	0.13705	0.30182	0.66585
	RN->Q (FF)	-	0.09347	0.27158	0.69533

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHRX1H7H	D->QN (FR)	-	0.16446	0.34294	0.79399
	G->QN (RR)	RN	0.19403	0.36495	0.79001
	RN->QN (FR)	-	0.14673	0.33309	0.80389

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHRX1H7H	D->QN (RF)	-	0.18456	0.33433	0.70681
	G->QN (RF)	RN	0.21019	0.35550	0.69957
	RN->QN (RF)	-	0.18693	0.33703	0.70974

Constraint Information

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATHRX1H7H	hold	G (F)	-0.24008	-0.04282	0.13258
	setup	G (F)	-0.08109	0.07580	0.28475

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATHRX1H7H	hold	G (F)	-0.22945	-0.07304	0.03966
	setup	G (F)	0.05213	0.12355	0.28679

Min Pulse Width (ns) for G:

Cell Name	High	Low
LATHRX1H7H	0.9851	-

Constraints(ns) for RN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATHRX1H7H	recovery	G (F)	-0.07411	0.07852	0.28510
	removal	G (F)	-0.24720	-0.04649	0.12655

Min Pulse Width (ns) for RN:

Cell Name	High	Low
LATHRX1H7H	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHRX1H7H	D	-	0.00127	0.00133	0.00138
	D	-	0.00006	0.00007	0.00007
	D	-	-0.00005	-0.00004	-0.00003
	D	-	0.00174	0.00180	0.00185
	G	RN	0.00177	0.00183	0.00188
	G	RN	0.00003	0.00003	0.00004
	G	RN	-0.00002	-0.00001	-0.00001
	G	RN	0.00232	0.00238	0.00243
	RN	-	0.00129	0.00135	0.00140
	RN	-	0.00006	0.00007	0.00007
	RN	-	-0.00007	-0.00005	-0.00003
	RN	-	0.00195	0.00202	0.00207

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHRX1H7H	D	-	0.00163	0.00169	0.00175
	D	-	-0.00007	-0.00007	-0.00006
	D	-	0.00003	0.00004	0.00005
	D	-	0.00117	0.00123	0.00129
	G	RN	0.00180	0.00189	0.00197
	G	RN	-0.00004	-0.00003	-0.00003
	G	RN	0.00001	0.00001	0.00002
	G	RN	0.00213	0.00221	0.00229
	RN	-	0.00172	0.00180	0.00187
	RN	-	-0.00006	-0.00005	-0.00002
	RN	-	0.00003	0.00005	0.00007
	RN	-	0.00119	0.00126	0.00133

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHRX1H7H	D	-	0.00163	0.00169	0.00175
	D	-	-0.00007	-0.00007	-0.00006
	D	-	0.00004	0.00004	0.00004
	D	-	0.00117	0.00123	0.00129
	G	RN	0.00180	0.00189	0.00197
	G	RN	-0.00003	-0.00003	-0.00003
	G	RN	0.00001	0.00001	0.00001
	G	RN	0.00213	0.00222	0.00229
	RN	-	0.00172	0.00180	0.00187
	RN	-	-0.00005	-0.00005	-0.00003
	RN	-	0.00005	0.00005	0.00005
	RN	-	0.00119	0.00126	0.00133

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHRX1H7H	D	-	0.00127	0.00133	0.00138
	D	-	0.00006	0.00007	0.00007
	D	-	-0.00004	-0.00004	-0.00004
	D	-	0.00174	0.00180	0.00185
	G	RN	0.00177	0.00183	0.00188
	G	RN	0.00003	0.00003	0.00003
	G	RN	-0.00001	-0.00001	-0.00001
	G	RN	0.00232	0.00238	0.00243
	RN	-	0.00129	0.00135	0.00140
	RN	-	0.00006	0.00007	0.00007
	RN	-	-0.00005	-0.00005	-0.00005
	RN	-	0.00195	0.00202	0.00207

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
LATHRX1H7H	-0.00004	-0.00002	0.00001
	0.00007	0.00007	0.00007
	-0.00006	-0.00006	-0.00006
	0.00070	0.00072	0.00075

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
LATHRX1H7H	0.00062	0.00065	0.00069
	-0.00007	-0.00007	-0.00007
	0.00006	0.00006	0.00007
	-0.00012	-0.00010	-0.00006

Passive power(pJ) for G rising :

Cell Name	Power(pJ)		
	min	avg	max
LATHRX1H7H	0.00084	0.00088	0.00094
	-0.00000	0.00000	0.00001
	-0.00001	-0.00000	0.00000
	0.00173	0.00177	0.00184

Passive power(pJ) for G falling :

Cell Name	Power(pJ)		
	min	avg	max
LATHRX1H7H	0.00197	0.00201	0.00207
	0.00000	0.00001	0.00001
	0.00000	0.00000	0.00001
	0.00110	0.00114	0.00120

Passive power(pJ) for RN rising :

Cell Name	Power(pJ)		
	min	avg	max
LATHRX1H7H	-0.00017	-0.00017	-0.00016
	-0.00001	-0.00001	-0.00000
	0.00003	0.00003	0.00003
	0.00043	0.00044	0.00044

Passive power(pJ) for RN falling :

Cell Name	Power(pJ)		
	min	avg	max
LATHRX1H7H	0.00021	0.00021	0.00022
	0.00001	0.00001	0.00001
	-0.00003	-0.00003	-0.00003
	-0.00040	-0.00038	-0.00035

LATHRX2H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Latch

Q = !RN ? 0 : G ? D : pre_Q

QN = !Q

Truth Table

INPUT			OUTPUT	
D	G	RN	Q	QN
x	x	0	0	1
x	0	1	IQ	IQN
0	1	1	0	1
1	1	1	1	0

Footprint

Cell Name	Area
LATHRX2H7H	6.44000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)	
	D	**G**	**RN**	**Q**	**QN**
LATHRX2H7H	0.00103	0.00114	0.00112	0.06328	0.06327

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
LATHRX2H7H	0.00000	0.07444	0.09950

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHRX2H7H	D->Q (RR)	-	0.12443	0.32146	0.78871
	G->Q (RR)	RN	0.14951	0.34184	0.77359
	RN->Q (RR)	-	0.12621	0.32419	0.79142

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHRX2H7H	D->Q (FF)	-	0.10243	0.27183	0.66419
	G->Q (RF)	RN	0.13332	0.29510	0.65202
	RN->Q (FF)	-	0.12459	0.31463	0.75711

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHRX2H7H	D->QN (FR)	-	0.16692	0.34429	0.79543
	G->QN (RR)	RN	0.19792	0.36826	0.79501
	RN->QN (FR)	-	0.19825	0.38625	0.87610

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHRX2H7H	D->QN (RF)	-	0.18843	0.33344	0.69638
	G->QN (RF)	RN	0.21395	0.35421	0.68849
	RN->QN (RF)	-	0.19020	0.33598	0.70031

Constraint Information

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATHRX2H7H	hold	G (F)	-0.24016	-0.03923	0.13943
	setup	G (F)	-0.08742	0.07626	0.29144

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATHRX2H7H	hold	G (F)	-0.22711	-0.06963	0.04579
	setup	G (F)	0.05082	0.12646	0.29677

Min Pulse Width (ns) for G:

Cell Name	High	Low
LATHRX2H7H	0.9851	-

Constraints(ns) for RN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATHRX2H7H	recovery	G (F)	-0.08260	0.07904	0.29302
	removal	G (F)	-0.24620	-0.04351	0.13604

Min Pulse Width (ns) for RN:

Cell Name	High	Low
LATHRX2H7H	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHRX2H7H	D	-	0.00158	0.00165	0.00173
	D	-	0.00007	0.00007	0.00008
	D	-	-0.00005	-0.00005	-0.00004
	D	-	0.00209	0.00217	0.00225
	G	RN	0.00212	0.00220	0.00227
	G	RN	0.00002	0.00003	0.00003
	G	RN	-0.00002	-0.00001	-0.00001
	G	RN	0.00266	0.00274	0.00281
	RN	-	0.00161	0.00169	0.00176
	RN	-	0.00007	0.00008	0.00008
	RN	-	-0.00008	-0.00006	-0.00004
	RN	-	0.00231	0.00239	0.00246

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHRX2H7H	D	-	0.00198	0.00207	0.00215
	D	-	-0.00008	-0.00007	-0.00007
	D	-	0.00004	0.00005	0.00005
	D	-	0.00147	0.00155	0.00164
	G	RN	0.00214	0.00226	0.00236
	G	RN	-0.00003	-0.00003	-0.00002
	G	RN	0.00001	0.00001	0.00002
	G	RN	0.00247	0.00258	0.00268
	RN	-	0.00207	0.00215	0.00224
	RN	-	-0.00006	-0.00004	-0.00002
	RN	-	0.00004	0.00006	0.00008
	RN	-	0.00149	0.00157	0.00166

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHRX2H7H	D	-	0.00198	0.00207	0.00215
	D	-	-0.00008	-0.00007	-0.00007
	D	-	0.00005	0.00005	0.00005
	D	-	0.00147	0.00156	0.00164
	G	RN	0.00215	0.00226	0.00236
	G	RN	-0.00004	-0.00003	-0.00002
	G	RN	0.00001	0.00002	0.00002
	G	RN	0.00247	0.00258	0.00268
	RN	-	0.00207	0.00215	0.00224
	RN	-	-0.00006	-0.00004	-0.00003
	RN	-	0.00006	0.00006	0.00006
	RN	-	0.00147	0.00157	0.00166

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHRX2H7H	D	-	0.00158	0.00165	0.00173
	D	-	0.00007	0.00007	0.00008
	D	-	-0.00005	-0.00005	-0.00004
	D	-	0.00209	0.00217	0.00225
	G	RN	0.00212	0.00220	0.00227
	G	RN	0.00002	0.00003	0.00004
	G	RN	-0.00002	-0.00002	-0.00001
	G	RN	0.00266	0.00274	0.00281
	RN	-	0.00161	0.00169	0.00176
	RN	-	0.00006	0.00008	0.00008
	RN	-	-0.00006	-0.00006	-0.00006
	RN	-	0.00231	0.00239	0.00246

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
LATHRX2H7H	-0.00006	-0.00004	-0.00000
	0.00009	0.00009	0.00009
	-0.00007	-0.00007	-0.00006
	0.00079	0.00081	0.00085

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
LATHRX2H7H	0.00072	0.00074	0.00078
	-0.00009	-0.00009	-0.00009
	0.00007	0.00007	0.00007
	-0.00013	-0.00011	-0.00007

Passive power(pJ) for G rising :

Cell Name	Power(pJ)		
	min	avg	max
LATHRX2H7H	0.00094	0.00098	0.00104
	-0.00001	-0.00001	-0.00000
	-0.00000	-0.00000	0.00000
	0.00181	0.00185	0.00191

Passive power(pJ) for G falling :

Cell Name	Power(pJ)		
	min	avg	max
LATHRX2H7H	0.00203	0.00207	0.00213
	0.00000	0.00001	0.00001
	0.00000	0.00000	0.00000
	0.00118	0.00122	0.00127

Passive power(pJ) for RN rising :

Cell Name	Power(pJ)		
	min	avg	max
LATHRX2H7H	-0.00014	-0.00014	-0.00014
	-0.00001	-0.00001	-0.00001
	0.00002	0.00003	0.00004
	0.00045	0.00046	0.00046

Passive power(pJ) for RN falling :

Cell Name	Power(pJ)		
	min	avg	max
LATHRX2H7H	0.00018	0.00019	0.00019
	0.00001	0.00001	0.00001
	-0.00004	-0.00003	-0.00002
	-0.00042	-0.00040	-0.00038

LATHSRX0P5H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

High Enable Latch with Clear and Set
Q = !SN ? 1 : !RN ? 0 : E ? D : pre_Q
QN = !Q

Truth Table

INPUT				OUTPUT	
D	G	RN	SN	Q	QN
x	x	x	0	1	0
x	x	0	1	0	1
x	0	1	1	IQ	IQN
0	1	1	1	0	1
1	1	1	1	1	0

Footprint

Cell Name	Area
LATHSRX0P5H7H	7.28000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)	
	D	G	RN	SN	Q	QN
LATHSRX0P5H7H	0.00089	0.00112	0.00093	0.00098	0.04240	0.04257

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
LATHSRX0P5H7H	0.00000	0.06835	0.07841

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHSRX0P5H7H	D->Q (RR)	-	0.14879	0.35110	0.82650
	G->Q (RR)	(RN * SN)	0.17996	0.37562	0.80974
	RN->Q (RR)	(D * G * SN)	0.15586	0.35973	0.83635
	SN->Q (FR)	(D * !G * RN)	0.10324	0.27600	0.68416
	SN->Q (FR)	(D * !G * !RN)	0.10509	0.28126	0.69370
	SN->Q (FR)	(!D * G * RN)	0.10677	0.28236	0.69176
	SN->Q (FR)	(!D * G * !RN)	0.10917	0.28412	0.69333
	SN->Q (FR)	(!D * !G * RN)	0.10386	0.27688	0.68521
	SN->Q (FR)	(!D * !G * !RN)	0.10757	0.28246	0.69266

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHSRX0P5H7H	D->Q (FF)	-	0.18439	0.37428	0.79995
	G->Q (RF)	(RN * SN)	0.18568	0.36618	0.73852
	RN->Q (FF)	(D * G * SN)	0.17925	0.37815	0.83046
	RN->Q (FF)	(D * !G * SN)	0.17728	0.36676	0.80365
	RN->Q (FF)	(!D * !G * SN)	0.16503	0.35411	0.78823
	SN->Q (RF)	(!D * G * RN)	0.21865	0.38691	0.72434
	SN->Q (RF)	(!D * G * !RN)	0.17054	0.32461	0.65049

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHSRX0P5H7H	D->QN (FR)	-	0.26101	0.43755	0.89974
	G->QN (RR)	(RN * SN)	0.26303	0.42974	0.84620
	RN->QN (FR)	(D * G * SN)	0.25752	0.44117	0.92665
	RN->QN (FR)	(D * !G * SN)	0.25234	0.43517	0.91981
	RN->QN (FR)	(!D * !G * SN)	0.23934	0.42186	0.90265
	SN->QN (RR)	(!D * G * RN)	0.29529	0.45032	0.83285
	SN->QN (RR)	(!D * G * !RN)	0.23242	0.39054	0.77691

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHSRX0P5H7H	D->QN (RF)	-	0.21563	0.36567	0.74164
	G->QN (RF)	(RN * SN)	0.24726	0.39066	0.73144
	RN->QN (RF)	(D * G * SN)	0.22271	0.37423	0.75198
	SN->QN (FF)	(D * !G * RN)	0.15562	0.29463	0.62210
	SN->QN (FF)	(D * !G * !RN)	0.15787	0.29766	0.62577
	SN->QN (FF)	(!D * G * RN)	0.16071	0.29980	0.62708
	SN->QN (FF)	(!D * G * !RN)	0.16107	0.29984	0.62714
	SN->QN (FF)	(!D * !G * RN)	0.15651	0.29562	0.62327
	SN->QN (FF)	(!D * !G * !RN)	0.16049	0.29982	0.62759

Constraint Information

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATHSRX0P5H7H	hold	G (F)	-0.25785	-0.05348	0.12241
	setup	G (F)	-0.06502	0.08847	0.30019

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATHSRX0P5H7H	hold	G (F)	-0.31045	-0.13597	-0.02347
	setup	G (F)	0.10766	0.19812	0.39056

Min Pulse Width (ns) for G:

Cell Name	High	Low
LATHSRX0P5H7H	0.9851	-

Min Pulse Width (ns) for RN:

Cell Name	High	Low
LATHSRX0P5H7H	-	0.9851

Constraints(ns) for RN rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATHSRX0P5H7H	recovery	G (F)	-0.06693	0.09522	0.31156
	removal	G (F)	-0.27111	-0.06146	0.12065

Constraints(ns) for SN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATHSRX0P5H7H	recovery	G (F)	0.14264	0.21269	0.32590
	removal	G (F)	-0.26936	-0.15525	-0.06471
	hold	RN (R)	-0.49234	-0.26058	-0.16059
	setup	RN (R)	0.20390	0.31667	0.60448

Min Pulse Width (ns) for SN:

Cell Name	High	Low
LATHSRX0P5H7H	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

LATHSRX0P5H7H	**D**	**-**	0.00144	0.00151	0.00157
	D	**-**	0.00006	0.00006	0.00007
	D	**-**	-0.00007	-0.00006	-0.00005
	D	**-**	0.00191	0.00198	0.00204
	G	**(RN * SN)**	0.00210	0.00218	0.00224
	G	**(RN * SN)**	0.00002	0.00003	0.00003
	G	**(RN * SN)**	-0.00004	-0.00003	-0.00002
	G	**(RN * SN)**	0.00263	0.00271	0.00280
	RN	**(D * G * SN)**	0.00144	0.00152	0.00158
	RN	**(D * G * SN)**	0.00006	0.00007	0.00008
	RN	**(D * G * SN)**	-0.00010	-0.00009	-0.00008
	RN	**(D * G * SN)**	0.00206	0.00214	0.00219
	SN	**(D * !G * RN)**	0.00208	0.00215	0.00221
	SN	**(D * !G * RN)**	0.00005	0.00005	0.00007
	SN	**(D * !G * RN)**	-0.00005	-0.00003	-0.00002
	SN	**(D * !G * RN)**	0.00186	0.00193	0.00199
	SN	**(D * !G * !RN)**	0.00215	0.00222	0.00228
	SN	**(D * !G * !RN)**	0.00008	0.00009	0.00009
	SN	**(D * !G * !RN)**	-0.00010	-0.00007	-0.00005
	SN	**(D * !G * !RN)**	0.00212	0.00220	0.00226
	SN	**(!D * G * RN)**	0.00216	0.00224	0.00229
	SN	**(!D * G * RN)**	0.00011	0.00011	0.00011
	SN	**(!D * G * RN)**	-0.00005	-0.00004	-0.00003
	SN	**(!D * G * RN)**	0.00212	0.00220	0.00225
	SN	**(!D * G * !RN)**	0.00213	0.00221	0.00227
	SN	**(!D * G * !RN)**	0.00011	0.00011	0.00011
	SN	**(!D * G * !RN)**	-0.00003	-0.00003	-0.00002
	SN	**(!D * G * !RN)**	0.00208	0.00215	0.00221
	SN	**(!D * !G * RN)**	0.00210	0.00217	0.00223
	SN	**(!D * !G * RN)**	0.00005	0.00006	0.00007
	SN	**(!D * !G * RN)**	-0.00005	-0.00004	-0.00003
	SN	**(!D * !G * RN)**	0.00192	0.00199	0.00205
	SN	**(!D * !G * !RN)**	0.00213	0.00221	0.00227
	SN	**(!D * !G * !RN)**	0.00010	0.00010	0.00011
	SN	**(!D * !G * !RN)**	-0.00007	-0.00005	-0.00004
	SN	**(!D * !G * !RN)**	0.00208	0.00215	0.00221

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHSRX0P5H7H	D	-	0.00190	0.00197	0.00203
	D	-	-0.00007	-0.00006	-0.00006
	D	-	0.00005	0.00006	0.00007
	D	-	0.00142	0.00150	0.00156
	G	(RN * SN)	0.00211	0.00221	0.00230
	G	(RN * SN)	-0.00003	-0.00003	-0.00002
	G	(RN * SN)	0.00002	0.00003	0.00004
	G	(RN * SN)	0.00242	0.00252	0.00261
	RN	(D * G * SN)	0.00212	0.00220	0.00227
	RN	(D * G * SN)	-0.00007	-0.00007	-0.00006
	RN	(D * G * SN)	0.00008	0.00009	0.00010
	RN	(D * G * SN)	0.00152	0.00160	0.00167
	RN	(D * !G * SN)	0.00200	0.00208	0.00215
	RN	(D * !G * SN)	-0.00008	-0.00006	-0.00004
	RN	(D * !G * SN)	0.00006	0.00007	0.00009
	RN	(D * !G * SN)	0.00151	0.00159	0.00166
	RN	(!D * !G * SN)	0.00190	0.00198	0.00205
	RN	(!D * !G * SN)	-0.00006	-0.00005	-0.00004
	RN	(!D * !G * SN)	0.00005	0.00006	0.00007
	RN	(!D * !G * SN)	0.00148	0.00156	0.00163
	SN	(!D * G * RN)	0.00206	0.00214	0.00221
	SN	(!D * G * RN)	-0.00011	-0.00011	-0.00011
	SN	(!D * G * RN)	0.00003	0.00004	0.00005
	SN	(!D * G * RN)	0.00207	0.00216	0.00223
	SN	(!D * G * !RN)	0.00209	0.00217	0.00224
	SN	(!D * G * !RN)	-0.00011	-0.00011	-0.00011
	SN	(!D * G * !RN)	0.00002	0.00003	0.00003
	SN	(!D * G * !RN)	0.00212	0.00220	0.00227

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHSRX0P5H7H	D	-	0.00190	0.00197	0.00203
	D	-	-0.00007	-0.00006	-0.00005
	D	-	0.00005	0.00006	0.00006
	D	-	0.00142	0.00150	0.00156
	G	(RN * SN)	0.00211	0.00221	0.00230
	G	(RN * SN)	-0.00003	-0.00003	-0.00003
	G	(RN * SN)	0.00002	0.00003	0.00003
	G	(RN * SN)	0.00242	0.00252	0.00261
	RN	(D * G * SN)	0.00212	0.00220	0.00227
	RN	(D * G * SN)	-0.00007	-0.00006	-0.00006
	RN	(D * G * SN)	0.00009	0.00009	0.00009
	RN	(D * G * SN)	0.00152	0.00160	0.00167
	RN	(D * !G * SN)	0.00200	0.00208	0.00215
	RN	(D * !G * SN)	-0.00006	-0.00006	-0.00006
	RN	(D * !G * SN)	0.00007	0.00007	0.00008
	RN	(D * !G * SN)	0.00151	0.00159	0.00166
	RN	(!D * !G * SN)	0.00189	0.00198	0.00206
	RN	(!D * !G * SN)	-0.00006	-0.00005	-0.00002
	RN	(!D * !G * SN)	0.00006	0.00006	0.00007
	RN	(!D * !G * SN)	0.00147	0.00156	0.00163
	SN	(!D * G * RN)	0.00206	0.00214	0.00221
	SN	(!D * G * RN)	-0.00011	-0.00011	-0.00010
	SN	(!D * G * RN)	0.00004	0.00004	0.00005
	SN	(!D * G * RN)	0.00208	0.00216	0.00223
	SN	(!D * G * !RN)	0.00209	0.00217	0.00224
	SN	(!D * G * !RN)	-0.00012	-0.00011	-0.00010
	SN	(!D * G * !RN)	0.00003	0.00003	0.00003
	SN	(!D * G * !RN)	0.00212	0.00220	0.00227

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

LATHSRX0P5H7H	**D**	**-**	0.00144	0.00151	0.00157
	D	**-**	0.00005	0.00006	0.00007
	D	**-**	-0.00006	-0.00006	-0.00005
	D	**-**	0.00191	0.00198	0.00204
	G	**(RN * SN)**	0.00210	0.00218	0.00224
	G	**(RN * SN)**	0.00003	0.00003	0.00003
	G	**(RN * SN)**	-0.00003	-0.00003	-0.00002
	G	**(RN * SN)**	0.00263	0.00271	0.00277
	RN	**(D * G * SN)**	0.00144	0.00152	0.00158
	RN	**(D * G * SN)**	0.00006	0.00006	0.00007
	RN	**(D * G * SN)**	-0.00009	-0.00009	-0.00009
	RN	**(D * G * SN)**	0.00206	0.00214	0.00219
	SN	**(D * !G * RN)**	0.00208	0.00215	0.00221
	SN	**(D * !G * RN)**	0.00003	0.00005	0.00005
	SN	**(D * !G * RN)**	-0.00005	-0.00003	-0.00002
	SN	**(D * !G * RN)**	0.00186	0.00193	0.00199
	SN	**(D * !G * !RN)**	0.00215	0.00222	0.00228
	SN	**(D * !G * !RN)**	0.00009	0.00009	0.00010
	SN	**(D * !G * !RN)**	-0.00008	-0.00007	-0.00007
	SN	**(D * !G * !RN)**	0.00212	0.00220	0.00225
	SN	**(!D * G * RN)**	0.00216	0.00224	0.00229
	SN	**(!D * G * RN)**	0.00010	0.00011	0.00011
	SN	**(!D * G * RN)**	-0.00005	-0.00004	-0.00004
	SN	**(!D * G * RN)**	0.00212	0.00219	0.00225
	SN	**(!D * G * !RN)**	0.00213	0.00221	0.00227
	SN	**(!D * G * !RN)**	0.00010	0.00011	0.00012
	SN	**(!D * G * !RN)**	-0.00003	-0.00003	-0.00002
	SN	**(!D * G * !RN)**	0.00208	0.00215	0.00221
	SN	**(!D * !G * RN)**	0.00209	0.00217	0.00223
	SN	**(!D * !G * RN)**	0.00004	0.00006	0.00007
	SN	**(!D * !G * RN)**	-0.00006	-0.00004	-0.00003
	SN	**(!D * !G * RN)**	0.00192	0.00199	0.00204
	SN	**(!D * !G * !RN)**	0.00213	0.00221	0.00227
	SN	**(!D * !G * !RN)**	0.00010	0.00010	0.00010
	SN	**(!D * !G * !RN)**	-0.00006	-0.00005	-0.00004
	SN	**(!D * !G * !RN)**	0.00207	0.00215	0.00221

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
LATHSRX0P5H7H	0.00001	0.00003	0.00006
	0.00007	0.00007	0.00008
	-0.00006	-0.00006	-0.00006
	0.00076	0.00078	0.00081

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
LATHSRX0P5H7H	0.00072	0.00074	0.00078
	-0.00007	-0.00007	-0.00007
	0.00006	0.00006	0.00006
	-0.00002	-0.00001	0.00003

Passive power(pJ) for G rising :

Cell Name	Power(pJ)		
	min	avg	max
LATHSRX0P5H7H	0.00120	0.00126	0.00132
	-0.00000	-0.00000	0.00000
	-0.00000	0.00000	0.00001
	0.00200	0.00205	0.00211

Passive power(pJ) for G falling :

Cell Name	Power(pJ)		
	min	avg	max
LATHSRX0P5H7H	0.00206	0.00211	0.00218
	0.00000	0.00000	0.00000
	0.00001	0.00002	0.00002
	0.00120	0.00125	0.00132

Passive power(pJ) for RN rising :

Cell Name	Power(pJ)		
	min	avg	max
LATHSRX0P5H7H	-0.00010	-0.00009	-0.00009
	-0.00002	-0.00001	-0.00001
	0.00000	0.00001	0.00001
	0.00037	0.00037	0.00037

Passive power(pJ) for RN falling :

Cell Name	Power(pJ)		
	min	avg	max
LATHSRX0P5H7H	0.00022	0.00022	0.00023
	0.00001	0.00001	0.00002
	-0.00001	-0.00001	-0.00000
	-0.00028	-0.00027	-0.00026

Passive power(pJ) for SN rising :

Cell Name	Power(pJ)		
	min	avg	max
LATHSRX0P5H7H	-0.00003	-0.00001	0.00001
	0.00005	0.00006	0.00007
	-0.00003	-0.00003	-0.00003
	0.00078	0.00080	0.00082

Passive power(pJ) for SN falling :

Cell Name	Power(pJ)		
	min	avg	max
LATHSRX0P5H7H	0.00097	0.00099	0.00103
	-0.00006	-0.00006	-0.00005
	0.00003	0.00003	0.00004
	0.00016	0.00018	0.00020

LATHSRX1H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

High Enable Latch with Clear and Set
Q = !SN ? 1 : !RN ? 0 : E ? D : pre_Q
QN = !Q

Truth Table

INPUT				OUTPUT	
D	G	RN	SN	Q	QN
x	x	x	0	1	0
x	x	0	1	0	1
x	0	1	1	IQ	IQN
0	1	1	1	0	1
1	1	1	1	1	0

Footprint

Cell Name	Area
LATHSRX1H7H	7.28000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)	
	D	G	RN	SN	Q	QN
LATHSRX1H7H	0.00089	0.00112	0.00093	0.00098	0.04975	0.04994

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
LATHSRX1H7H	0.00000	0.07475	0.08448

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHSRX1H7H	D->Q (RR)	-	0.14836	0.35240	0.83020
	G->Q (RR)	(RN * SN)	0.17931	0.37654	0.81185
	RN->Q (RR)	(D * G * SN)	0.15540	0.36097	0.83940
	SN->Q (FR)	(D * !G * RN)	0.10224	0.27566	0.68413
	SN->Q (FR)	(D * !G * !RN)	0.10409	0.28087	0.69388
	SN->Q (FR)	(!D * G * RN)	0.10569	0.28201	0.69215
	SN->Q (FR)	(!D * G * !RN)	0.10807	0.28376	0.69354
	SN->Q (FR)	(!D * !G * RN)	0.10288	0.27657	0.68541
	SN->Q (FR)	(!D * !G * !RN)	0.10656	0.28212	0.69328

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHSRX1H7H	D->Q (FF)	-	0.18494	0.37882	0.81095
	G->Q (RF)	(RN * SN)	0.18642	0.37077	0.74881
	RN->Q (FF)	(D * G * SN)	0.17957	0.38224	0.84047
	RN->Q (FF)	(D * !G * SN)	0.17767	0.37083	0.81397
	RN->Q (FF)	(!D * !G * SN)	0.16537	0.35814	0.79870
	SN->Q (RF)	(!D * G * RN)	0.21922	0.39133	0.73454
	SN->Q (RF)	(!D * G * !RN)	0.17073	0.32786	0.65914

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHSRX1H7H	D->QN (FR)	-	0.26547	0.44188	0.90464
	G->QN (RR)	(RN * SN)	0.26766	0.43409	0.85025
	RN->QN (FR)	(D * G * SN)	0.26148	0.44522	0.93161
	RN->QN (FR)	(D * !G * SN)	0.25623	0.43899	0.92434
	RN->QN (FR)	(!D * !G * SN)	0.24319	0.42563	0.90725
	SN->QN (RR)	(!D * G * RN)	0.29975	0.45449	0.83683
	SN->QN (RR)	(!D * G * !RN)	0.23528	0.39333	0.77983

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHSRX1H7H	D->QN (RF)	-	0.21960	0.37166	0.75323
	G->QN (RF)	(RN * SN)	0.25098	0.39623	0.74120
	RN->QN (RF)	(D * G * SN)	0.22668	0.38015	0.76283
	SN->QN (FF)	(D * !G * RN)	0.15744	0.29847	0.63030
	SN->QN (FF)	(D * !G * !RN)	0.15970	0.30157	0.63426
	SN->QN (FF)	(!D * G * RN)	0.16263	0.30373	0.63550
	SN->QN (FF)	(!D * G * !RN)	0.16298	0.30377	0.63559
	SN->QN (FF)	(!D * !G * RN)	0.15840	0.29949	0.63151
	SN->QN (FF)	(!D * !G * !RN)	0.16234	0.30374	0.63597

Constraint Information

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATHSRX1H7H	hold	G (F)	-0.26217	-0.05492	0.12131
	setup	G (F)	-0.06251	0.09105	0.30747

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATHSRX1H7H	hold	G (F)	-0.31458	-0.13708	-0.02491
	setup	G (F)	0.11206	0.20224	0.39577

Min Pulse Width (ns) for G:

Cell Name	High	Low
LATHSRX1H7H	0.9851	-

Min Pulse Width (ns) for RN:

Cell Name	High	Low
LATHSRX1H7H	-	0.9851

Constraints(ns) for RN rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATHSRX1H7H	recovery	G (F)	-0.06495	0.09821	0.31632
	removal	G (F)	-0.27318	-0.06298	0.11862

Constraints(ns) for SN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATHSRX1H7H	recovery	G (F)	0.14774	0.21708	0.32880
	removal	G (F)	-0.26968	-0.15676	-0.06686
	hold	RN (R)	-0.49454	-0.26223	-0.16189
	setup	RN (R)	0.20804	0.32027	0.60720

Min Pulse Width (ns) for SN:

Cell Name	High	Low
LATHSRX1H7H	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

LATHSRX1H7H	**D**	**-**	0.00150	0.00158	0.00165
	D	**-**	0.00006	0.00006	0.00007
	D	**-**	-0.00006	-0.00006	-0.00005
	D	**-**	0.00197	0.00205	0.00212
	G	**(RN * SN)**	0.00216	0.00225	0.00232
	G	**(RN * SN)**	0.00002	0.00003	0.00004
	G	**(RN * SN)**	-0.00003	-0.00003	-0.00001
	G	**(RN * SN)**	0.00269	0.00278	0.00284
	RN	**(D * G * SN)**	0.00151	0.00159	0.00165
	RN	**(D * G * SN)**	0.00006	0.00007	0.00007
	RN	**(D * G * SN)**	-0.00011	-0.00009	-0.00008
	RN	**(D * G * SN)**	0.00212	0.00221	0.00227
	SN	**(D * !G * RN)**	0.00214	0.00223	0.00229
	SN	**(D * !G * RN)**	0.00004	0.00005	0.00005
	SN	**(D * !G * RN)**	-0.00005	-0.00003	-0.00002
	SN	**(D * !G * RN)**	0.00192	0.00201	0.00207
	SN	**(D * !G * !RN)**	0.00221	0.00230	0.00236
	SN	**(D * !G * !RN)**	0.00007	0.00009	0.00011
	SN	**(D * !G * !RN)**	-0.00009	-0.00007	-0.00006
	SN	**(D * !G * !RN)**	0.00218	0.00227	0.00233
	SN	**(!D * G * RN)**	0.00222	0.00231	0.00237
	SN	**(!D * G * RN)**	0.00009	0.00011	0.00011
	SN	**(!D * G * RN)**	-0.00005	-0.00004	-0.00003
	SN	**(!D * G * RN)**	0.00218	0.00227	0.00233
	SN	**(!D * G * !RN)**	0.00220	0.00228	0.00234
	SN	**(!D * G * !RN)**	0.00010	0.00011	0.00012
	SN	**(!D * G * !RN)**	-0.00003	-0.00003	-0.00002
	SN	**(!D * G * !RN)**	0.00214	0.00223	0.00229
	SN	**(!D * !G * RN)**	0.00216	0.00225	0.00230
	SN	**(!D * !G * RN)**	0.00005	0.00006	0.00006
	SN	**(!D * !G * RN)**	-0.00004	-0.00004	-0.00002
	SN	**(!D * !G * RN)**	0.00198	0.00207	0.00212
	SN	**(!D * !G * !RN)**	0.00219	0.00228	0.00234
	SN	**(!D * !G * !RN)**	0.00009	0.00010	0.00011
	SN	**(!D * !G * !RN)**	-0.00007	-0.00005	-0.00004
	SN	**(!D * !G * !RN)**	0.00214	0.00223	0.00229

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHSRX1H7H	D	-	0.00195	0.00203	0.00210
	D	-	-0.00007	-0.00006	-0.00006
	D	-	0.00005	0.00006	0.00007
	D	-	0.00148	0.00156	0.00163
	G	(RN * SN)	0.00217	0.00228	0.00237
	G	(RN * SN)	-0.00004	-0.00003	-0.00002
	G	(RN * SN)	0.00001	0.00003	0.00003
	G	(RN * SN)	0.00247	0.00258	0.00268
	RN	(D * G * SN)	0.00217	0.00226	0.00234
	RN	(D * G * SN)	-0.00007	-0.00007	-0.00006
	RN	(D * G * SN)	0.00008	0.00009	0.00011
	RN	(D * G * SN)	0.00157	0.00166	0.00173
	RN	(D * !G * SN)	0.00206	0.00214	0.00222
	RN	(D * !G * SN)	-0.00007	-0.00006	-0.00004
	RN	(D * !G * SN)	0.00006	0.00007	0.00009
	RN	(D * !G * SN)	0.00156	0.00165	0.00173
	RN	(!D * !G * SN)	0.00196	0.00204	0.00212
	RN	(!D * !G * SN)	-0.00005	-0.00005	-0.00003
	RN	(!D * !G * SN)	0.00004	0.00006	0.00007
	RN	(!D * !G * SN)	0.00153	0.00162	0.00170
	SN	(!D * G * RN)	0.00211	0.00220	0.00227
	SN	(!D * G * RN)	-0.00011	-0.00011	-0.00009
	SN	(!D * G * RN)	0.00003	0.00004	0.00005
	SN	(!D * G * RN)	0.00213	0.00222	0.00230
	SN	(!D * G * !RN)	0.00214	0.00224	0.00231
	SN	(!D * G * !RN)	-0.00012	-0.00011	-0.00010
	SN	(!D * G * !RN)	0.00002	0.00003	0.00004
	SN	(!D * G * !RN)	0.00217	0.00227	0.00234

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHSRX1H7H	D	-	0.00195	0.00203	0.00210
	D	-	-0.00007	-0.00006	-0.00006
	D	-	0.00006	0.00006	0.00006
	D	-	0.00148	0.00156	0.00163
	G	(RN * SN)	0.00217	0.00228	0.00237
	G	(RN * SN)	-0.00004	-0.00003	-0.00003
	G	(RN * SN)	0.00003	0.00003	0.00003
	G	(RN * SN)	0.00247	0.00258	0.00268
	RN	(D * G * SN)	0.00218	0.00226	0.00234
	RN	(D * G * SN)	-0.00007	-0.00007	-0.00006
	RN	(D * G * SN)	0.00009	0.00010	0.00010
	RN	(D * G * SN)	0.00157	0.00166	0.00174
	RN	(D * !G * SN)	0.00206	0.00214	0.00222
	RN	(D * !G * SN)	-0.00007	-0.00006	-0.00004
	RN	(D * !G * SN)	0.00007	0.00007	0.00009
	RN	(D * !G * SN)	0.00155	0.00165	0.00172
	RN	(!D * !G * SN)	0.00196	0.00204	0.00212
	RN	(!D * !G * SN)	-0.00005	-0.00005	-0.00002
	RN	(!D * !G * SN)	0.00005	0.00006	0.00007
	RN	(!D * !G * SN)	0.00153	0.00162	0.00170
	SN	(!D * G * RN)	0.00211	0.00220	0.00227
	SN	(!D * G * RN)	-0.00012	-0.00011	-0.00010
	SN	(!D * G * RN)	0.00004	0.00004	0.00004
	SN	(!D * G * RN)	0.00213	0.00222	0.00230
	SN	(!D * G * !RN)	0.00215	0.00224	0.00231
	SN	(!D * G * !RN)	-0.00011	-0.00011	-0.00010
	SN	(!D * G * !RN)	0.00003	0.00003	0.00003
	SN	(!D * G * !RN)	0.00218	0.00227	0.00234

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

LATHSRX1H7H	**D**	**-**	0.00150	0.00158	0.00164
	D	**-**	0.00006	0.00006	0.00007
	D	**-**	-0.00006	-0.00006	-0.00006
	D	**-**	0.00197	0.00205	0.00211
	G	**(RN * SN)**	0.00216	0.00225	0.00232
	G	**(RN * SN)**	0.00003	0.00003	0.00004
	G	**(RN * SN)**	-0.00003	-0.00003	-0.00003
	G	**(RN * SN)**	0.00269	0.00278	0.00284
	RN	**(D * G * SN)**	0.00151	0.00159	0.00165
	RN	**(D * G * SN)**	0.00006	0.00007	0.00007
	RN	**(D * G * SN)**	-0.00010	-0.00010	-0.00009
	RN	**(D * G * SN)**	0.00212	0.00221	0.00227
	SN	**(D * !G * RN)**	0.00214	0.00223	0.00229
	SN	**(D * !G * RN)**	0.00003	0.00005	0.00005
	SN	**(D * !G * RN)**	-0.00004	-0.00004	-0.00004
	SN	**(D * !G * RN)**	0.00192	0.00201	0.00207
	SN	**(D * !G * !RN)**	0.00221	0.00230	0.00236
	SN	**(D * !G * !RN)**	0.00008	0.00009	0.00009
	SN	**(D * !G * !RN)**	-0.00008	-0.00007	-0.00007
	SN	**(D * !G * !RN)**	0.00218	0.00227	0.00233
	SN	**(!D * G * RN)**	0.00222	0.00231	0.00237
	SN	**(!D * G * RN)**	0.00010	0.00011	0.00012
	SN	**(!D * G * RN)**	-0.00004	-0.00004	-0.00004
	SN	**(!D * G * RN)**	0.00218	0.00227	0.00233
	SN	**(!D * G * !RN)**	0.00219	0.00228	0.00234
	SN	**(!D * G * !RN)**	0.00010	0.00011	0.00011
	SN	**(!D * G * !RN)**	-0.00003	-0.00003	-0.00003
	SN	**(!D * G * !RN)**	0.00214	0.00223	0.00229
	SN	**(!D * !G * RN)**	0.00216	0.00225	0.00230
	SN	**(!D * !G * RN)**	0.00005	0.00006	0.00007
	SN	**(!D * !G * RN)**	-0.00005	-0.00004	-0.00004
	SN	**(!D * !G * RN)**	0.00198	0.00207	0.00212
	SN	**(!D * !G * !RN)**	0.00219	0.00228	0.00234
	SN	**(!D * !G * !RN)**	0.00010	0.00010	0.00010
	SN	**(!D * !G * !RN)**	-0.00006	-0.00005	-0.00005
	SN	**(!D * !G * !RN)**	0.00214	0.00222	0.00229

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
LATHSRX1H7H	0.00001	0.00003	0.00006
	0.00007	0.00007	0.00008
	-0.00006	-0.00006	-0.00006
	0.00076	0.00078	0.00081

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
LATHSRX1H7H	0.00072	0.00074	0.00078
	-0.00007	-0.00007	-0.00007
	0.00006	0.00006	0.00006
	-0.00002	-0.00001	0.00003

Passive power(pJ) for G rising :

Cell Name	Power(pJ)		
	min	avg	max
LATHSRX1H7H	0.00116	0.00121	0.00127
	-0.00000	-0.00000	0.00000
	-0.00000	0.00001	0.00001
	0.00199	0.00203	0.00210

Passive power(pJ) for G falling :

Cell Name	Power(pJ)		
	min	avg	max
LATHSRX1H7H	0.00206	0.00211	0.00218
	0.00000	0.00000	0.00000
	0.00001	0.00001	0.00002
	0.00120	0.00125	0.00132

Passive power(pJ) for RN rising :

Cell Name	Power(pJ)		
	min	avg	max
LATHSRX1H7H	-0.00009	-0.00009	-0.00008
	-0.00002	-0.00001	-0.00000
	0.00000	0.00001	0.00001
	0.00037	0.00037	0.00037

Passive power(pJ) for RN falling :

Cell Name	Power(pJ)		
	min	avg	max
LATHSRX1H7H	0.00022	0.00023	0.00024
	0.00000	0.00001	0.00002
	-0.00001	-0.00001	-0.00000
	-0.00028	-0.00027	-0.00026

Passive power(pJ) for SN rising :

Cell Name	Power(pJ)		
	min	avg	max
LATHSRX1H7H	-0.00003	-0.00001	0.00001
	0.00005	0.00006	0.00007
	-0.00003	-0.00003	-0.00002
	0.00077	0.00080	0.00082

Passive power(pJ) for SN falling :

Cell Name	Power(pJ)		
	min	avg	max
LATHSRX1H7H	0.00097	0.00099	0.00102
	-0.00006	-0.00006	-0.00005
	0.00002	0.00003	0.00003
	0.00016	0.00018	0.00022

LATHSRX2H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

High Enable Latch with Clear and Set
Q = !SN ? 1 : !RN ? 0 : E ? D : pre_Q
QN = !Q

Truth Table

INPUT				OUTPUT	
D	G	RN	SN	Q	QN
x	x	x	0	1	0
x	x	0	1	0	1
x	0	1	1	IQ	IQN
0	1	1	1	0	1
1	1	1	1	1	0

Footprint

Cell Name	Area
LATHSRX2H7H	7.28000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)	
	D	G	RN	SN	Q	QN
LATHSRX2H7H	0.00098	0.00113	0.00096	0.00100	0.05657	0.05686

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
LATHSRX2H7H	0.00000	0.08727	0.10379

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHSRX2H7H	D->Q (RR)	-	0.13701	0.33785	0.81089
	G->Q (RR)	-	0.16771	0.36292	0.79807
	RN->Q (RR)	(D * G)	0.14322	0.34617	0.82168
	SN->Q (FR)	(D * G * !RN)	0.11025	0.29192	0.70727
	SN->Q (FR)	(D * !G * RN)	0.10388	0.27844	0.68902
	SN->Q (FR)	(D * !G * !RN)	0.10594	0.28385	0.69906
	SN->Q (FR)	(!D * G * RN)	0.10873	0.28677	0.69929
	SN->Q (FR)	(!D * G * !RN)	0.11109	0.28845	0.70042
	SN->Q (FR)	(!D * !G * RN)	0.10465	0.27957	0.69020
	SN->Q (FR)	(!D * !G * !RN)	0.10892	0.28583	0.69882

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHSRX2H7H	D->Q (FF)	-	0.16952	0.35938	0.78689
	G->Q (RF)	-	0.17335	0.35526	0.73444
	RN->Q (FF)	(D * G)	0.17485	0.37947	0.84213
	RN->Q (FF)	(D * !G)	0.17189	0.36582	0.81177
	RN->Q (FF)	(!D * !G)	0.15935	0.35265	0.79542
	SN->Q (RF)	(D * G * !RN)	0.20707	0.38401	0.73197
	SN->Q (RF)	(D * !G * !RN)	0.20406	0.37063	0.70673
	SN->Q (RF)	(!D * G * RN)	0.20320	0.37269	0.71580
	SN->Q (RF)	(!D * G * !RN)	0.16176	0.31872	0.65227
	SN->Q (RF)	(!D * !G * !RN)	0.20336	0.37011	0.70802

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHSRX2H7H	D->QN (FR)	-	0.24795	0.42475	0.88597
	G->QN (RR)	-	0.25250	0.42090	0.84135
	RN->QN (FR)	(D * G)	0.25897	0.44407	0.93320
	RN->QN (FR)	(D * !G)	0.25152	0.43546	0.92321
	RN->QN (FR)	(!D * !G)	0.23818	0.42166	0.90500
	SN->QN (RR)	(D * G * !RN)	0.29123	0.44888	0.83364
	SN->QN (RR)	(D * !G * !RN)	0.28379	0.44032	0.82488
	SN->QN (RR)	(!D * G * RN)	0.28165	0.43810	0.82344
	SN->QN (RR)	(!D * G * !RN)	0.22610	0.38558	0.77478
	SN->QN (RR)	(!D * !G * !RN)	0.28224	0.43914	0.82509

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHSRX2H7H	D->QN (RF)	-	0.20789	0.36075	0.74189
	G->QN (RF)	-	0.23898	0.38630	0.73593
	RN->QN (RF)	(D * G)	0.21414	0.36906	0.75376
	SN->QN (FF)	(D * G * !RN)	0.17415	0.31798	0.65458
	SN->QN (FF)	(D * !G * RN)	0.16134	0.30410	0.64044
	SN->QN (FF)	(D * !G * !RN)	0.16375	0.30733	0.64404
	SN->QN (FF)	(!D * G * RN)	0.16847	0.31136	0.64715
	SN->QN (FF)	(!D * G * !RN)	0.16884	0.31135	0.64707
	SN->QN (FF)	(!D * !G * RN)	0.16253	0.30535	0.64161
	SN->QN (FF)	(!D * !G * !RN)	0.16712	0.31023	0.64641

Constraint Information

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATHSRX2H7H	hold	G (F)	-0.24844	-0.04438	0.13590
	setup	G (F)	-0.07699	0.07985	0.29377

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATHSRX2H7H	hold	G (F)	-0.29781	-0.12601	-0.01480
	setup	G (F)	0.10021	0.18851	0.37948

Min Pulse Width (ns) for G:

Cell Name	High	Low
LATHSRX2H7H	0.9851	-

Min Pulse Width (ns) for RN:

Cell Name	High	Low
LATHSRX2H7H	-	0.9851

Constraints(ns) for RN rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATHSRX2H7H	hold	G (F)	-0.26250	-0.05244	0.13293
	setup	G (F)	-0.08023	0.08637	0.30511

Min Pulse Width (ns) for SN:

Cell Name	High	Low
LATHSRX2H7H	-	0.9851

Constraints(ns) for SN rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATHSRX2H7H	hold	G (F)	-0.26083	-0.14692	-0.05481
	setup	G (F)	0.13357	0.20421	0.31792
	hold	RN (R)	-0.49631	-0.25994	-0.15721
	setup	RN (R)	0.20631	0.31839	0.60836

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

LATHSRX2H7H	**D**	**-**	0.00156	0.00165	0.00172
	D	**-**	0.00007	0.00008	0.00009
	D	**-**	-0.00007	-0.00006	-0.00006
	D	**-**	0.00209	0.00217	0.00224
	G	**-**	0.00227	0.00237	0.00244
	G	**-**	0.00002	0.00003	0.00004
	G	**-**	-0.00004	-0.00003	-0.00003
	G	**-**	0.00281	0.00290	0.00297
	RN	**(D * G)**	0.00158	0.00167	0.00174
	RN	**(D * G)**	0.00008	0.00008	0.00009
	RN	**(D * G)**	-0.00012	-0.00011	-0.00009
	RN	**(D * G)**	0.00225	0.00234	0.00241
	SN	**(D * G * !RN)**	0.00235	0.00244	0.00251
	SN	**(D * G * !RN)**	0.00012	0.00013	0.00013
	SN	**(D * G * !RN)**	-0.00010	-0.00009	-0.00008
	SN	**(D * G * !RN)**	0.00247	0.00256	0.00263
	SN	**(D * !G * RN)**	0.00221	0.00231	0.00238
	SN	**(D * !G * RN)**	0.00004	0.00006	0.00006
	SN	**(D * !G * RN)**	-0.00006	-0.00004	-0.00001
	SN	**(D * !G * RN)**	0.00200	0.00210	0.00216
	SN	**(D * !G * !RN)**	0.00229	0.00238	0.00245
	SN	**(D * !G * !RN)**	0.00009	0.00010	0.00012
	SN	**(D * !G * !RN)**	-0.00008	-0.00007	-0.00005
	SN	**(D * !G * !RN)**	0.00227	0.00237	0.00244
	SN	**(!D * G * RN)**	0.00231	0.00240	0.00247
	SN	**(!D * G * RN)**	0.00013	0.00013	0.00013
	SN	**(!D * G * RN)**	-0.00006	-0.00005	-0.00004
	SN	**(!D * G * RN)**	0.00231	0.00240	0.00247
	SN	**(!D * G * !RN)**	0.00228	0.00238	0.00244
	SN	**(!D * G * !RN)**	0.00012	0.00013	0.00013
	SN	**(!D * G * !RN)**	-0.00005	-0.00004	-0.00003
	SN	**(!D * G * !RN)**	0.00226	0.00236	0.00243
	SN	**(!D * !G * RN)**	0.00224	0.00233	0.00240
	SN	**(!D * !G * RN)**	0.00007	0.00007	0.00008
	SN	**(!D * !G * RN)**	-0.00006	-0.00005	-0.00003
	SN	**(!D * !G * RN)**	0.00207	0.00216	0.00222
	SN	**(!D * !G * !RN)**	0.00227	0.00238	0.00244
	SN	**(!D * !G * !RN)**	0.00011	0.00012	0.00013
	SN	**(!D * !G * !RN)**	-0.00008	-0.00006	-0.00004
	SN	**(!D * !G * !RN)**	0.00225	0.00235	0.00242

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

LATHSRX2H7H	**D**	**-**	0.00207	0.00216	0.00223
	D	**-**	-0.00008	-0.00008	-0.00007
	D	**-**	0.00006	0.00006	0.00008
	D	**-**	0.00156	0.00164	0.00171
	G	**-**	0.00229	0.00241	0.00251
	G	**-**	-0.00004	-0.00003	-0.00002
	G	**-**	0.00003	0.00003	0.00004
	G	**-**	0.00259	0.00271	0.00281
	RN	**(D * G)**	0.00229	0.00239	0.00248
	RN	**(D * G)**	-0.00009	-0.00008	-0.00008
	RN	**(D * G)**	0.00009	0.00011	0.00012
	RN	**(D * G)**	0.00163	0.00174	0.00182
	RN	**(D * !G)**	0.00214	0.00224	0.00232
	RN	**(D * !G)**	-0.00008	-0.00006	-0.00005
	RN	**(D * !G)**	0.00006	0.00008	0.00009
	RN	**(D * !G)**	0.00162	0.00172	0.00180
	RN	**(!D * !G)**	0.00203	0.00213	0.00221
	RN	**(!D * !G)**	-0.00006	-0.00005	-0.00003
	RN	**(!D * !G)**	0.00005	0.00006	0.00008
	RN	**(!D * !G)**	0.00158	0.00169	0.00177
	SN	**(D * G * !RN)**	0.00247	0.00256	0.00264
	SN	**(D * G * !RN)**	-0.00013	-0.00013	-0.00012
	SN	**(D * G * !RN)**	0.00008	0.00009	0.00011
	SN	**(D * G * !RN)**	0.00234	0.00244	0.00252
	SN	**(D * !G * !RN)**	0.00233	0.00243	0.00251
	SN	**(D * !G * !RN)**	-0.00012	-0.00010	-0.00009
	SN	**(D * !G * !RN)**	0.00005	0.00007	0.00008
	SN	**(D * !G * !RN)**	0.00235	0.00244	0.00252
	SN	**(!D * G * RN)**	0.00225	0.00235	0.00243
	SN	**(!D * G * RN)**	-0.00013	-0.00013	-0.00013
	SN	**(!D * G * RN)**	0.00004	0.00005	0.00006
	SN	**(!D * G * RN)**	0.00224	0.00233	0.00241
	SN	**(!D * G * !RN)**	0.00229	0.00239	0.00247
	SN	**(!D * G * !RN)**	-0.00013	-0.00013	-0.00012
	SN	**(!D * G * !RN)**	0.00003	0.00004	0.00005
	SN	**(!D * G * !RN)**	0.00228	0.00238	0.00246
	SN	**(!D * !G * !RN)**	0.00243	0.00253	0.00261
	SN	**(!D * !G * !RN)**	-0.00013	-0.00012	-0.00011
	SN	**(!D * !G * !RN)**	0.00007	0.00008	0.00009
	SN	**(!D * !G * !RN)**	0.00237	0.00246	0.00254

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

LATHSRX2H7H	**D**	**-**	0.00207	0.00216	0.00223
	D	**-**	-0.00008	-0.00008	-0.00007
	D	**-**	0.00005	0.00006	0.00007
	D	**-**	0.00155	0.00164	0.00171
	G	**-**	0.00229	0.00242	0.00251
	G	**-**	-0.00003	-0.00003	-0.00003
	G	**-**	0.00003	0.00003	0.00003
	G	**-**	0.00259	0.00271	0.00281
	RN	**(D * G)**	0.00230	0.00239	0.00248
	RN	**(D * G)**	-0.00008	-0.00008	-0.00006
	RN	**(D * G)**	0.00009	0.00011	0.00011
	RN	**(D * G)**	0.00164	0.00174	0.00182
	RN	**(D * !G)**	0.00214	0.00224	0.00232
	RN	**(D * !G)**	-0.00008	-0.00006	-0.00005
	RN	**(D * !G)**	0.00007	0.00009	0.00011
	RN	**(D * !G)**	0.00162	0.00171	0.00181
	RN	**(!D * !G)**	0.00203	0.00213	0.00221
	RN	**(!D * !G)**	-0.00007	-0.00005	-0.00003
	RN	**(!D * !G)**	0.00004	0.00006	0.00009
	RN	**(!D * !G)**	0.00159	0.00169	0.00177
	SN	**(D * G * !RN)**	0.00247	0.00257	0.00265
	SN	**(D * G * !RN)**	-0.00013	-0.00013	-0.00012
	SN	**(D * G * !RN)**	0.00008	0.00010	0.00010
	SN	**(D * G * !RN)**	0.00235	0.00244	0.00252
	SN	**(D * !G * !RN)**	0.00233	0.00243	0.00251
	SN	**(D * !G * !RN)**	-0.00012	-0.00010	-0.00008
	SN	**(D * !G * !RN)**	0.00006	0.00007	0.00009
	SN	**(D * !G * !RN)**	0.00233	0.00244	0.00252
	SN	**(!D * G * RN)**	0.00225	0.00235	0.00243
	SN	**(!D * G * RN)**	-0.00013	-0.00013	-0.00013
	SN	**(!D * G * RN)**	0.00005	0.00005	0.00006
	SN	**(!D * G * RN)**	0.00224	0.00233	0.00241
	SN	**(!D * G * !RN)**	0.00229	0.00239	0.00247
	SN	**(!D * G * !RN)**	-0.00014	-0.00013	-0.00012
	SN	**(!D * G * !RN)**	0.00003	0.00004	0.00004
	SN	**(!D * G * !RN)**	0.00228	0.00238	0.00246
	SN	**(!D * !G * !RN)**	0.00242	0.00253	0.00261
	SN	**(!D * !G * !RN)**	-0.00012	-0.00012	-0.00012
	SN	**(!D * !G * !RN)**	0.00006	0.00008	0.00010
	SN	**(!D * !G * !RN)**	0.00235	0.00246	0.00254

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

LATHSRX2H7H	**D**	**-**	0.00156	0.00165	0.00172
	D	**-**	0.00007	0.00008	0.00009
	D	**-**	-0.00007	-0.00006	-0.00005
	D	**-**	0.00208	0.00217	0.00224
	G	**-**	0.00228	0.00237	0.00244
	G	**-**	0.00003	0.00003	0.00003
	G	**-**	-0.00003	-0.00003	-0.00003
	G	**-**	0.00281	0.00290	0.00297
	RN	**(D * G)**	0.00158	0.00167	0.00174
	RN	**(D * G)**	0.00006	0.00008	0.00008
	RN	**(D * G)**	-0.00011	-0.00011	-0.00009
	RN	**(D * G)**	0.00225	0.00234	0.00241
	SN	**(D * G * !RN)**	0.00235	0.00244	0.00251
	SN	**(D * G * !RN)**	0.00012	0.00013	0.00013
	SN	**(D * G * !RN)**	-0.00010	-0.00010	-0.00008
	SN	**(D * G * !RN)**	0.00246	0.00256	0.00263
	SN	**(D * !G * RN)**	0.00221	0.00231	0.00238
	SN	**(D * !G * RN)**	0.00005	0.00006	0.00007
	SN	**(D * !G * RN)**	-0.00004	-0.00004	-0.00002
	SN	**(D * !G * RN)**	0.00200	0.00210	0.00216
	SN	**(D * !G * !RN)**	0.00228	0.00238	0.00245
	SN	**(D * !G * !RN)**	0.00008	0.00010	0.00012
	SN	**(D * !G * !RN)**	-0.00008	-0.00007	-0.00006
	SN	**(D * !G * !RN)**	0.00227	0.00236	0.00243
	SN	**(!D * G * RN)**	0.00231	0.00240	0.00247
	SN	**(!D * G * RN)**	0.00013	0.00013	0.00013
	SN	**(!D * G * RN)**	-0.00006	-0.00005	-0.00005
	SN	**(!D * G * RN)**	0.00230	0.00240	0.00247
	SN	**(!D * G * !RN)**	0.00228	0.00237	0.00244
	SN	**(!D * G * !RN)**	0.00012	0.00013	0.00014
	SN	**(!D * G * !RN)**	-0.00004	-0.00004	-0.00002
	SN	**(!D * G * !RN)**	0.00226	0.00235	0.00242
	SN	**(!D * !G * RN)**	0.00223	0.00233	0.00240
	SN	**(!D * !G * RN)**	0.00005	0.00007	0.00008
	SN	**(!D * !G * RN)**	-0.00005	-0.00005	-0.00004
	SN	**(!D * !G * RN)**	0.00207	0.00216	0.00222
	SN	**(!D * !G * !RN)**	0.00228	0.00238	0.00244
	SN	**(!D * !G * !RN)**	0.00012	0.00012	0.00012
	SN	**(!D * !G * !RN)**	-0.00007	-0.00006	-0.00006
	SN	**(!D * !G * !RN)**	0.00225	0.00235	0.00242

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
LATHSRX2H7H	(G * RN * !SN)	-0.00003	-0.00003	-0.00002
	(G * RN * !SN)	-0.00005	-0.00004	-0.00004
	(G * RN * !SN)	0.00000	0.00001	0.00001
	(G * RN * !SN)	0.00039	0.00039	0.00039
	(G * !RN * SN)	-0.00032	-0.00032	-0.00031
	(G * !RN * SN)	-0.00002	-0.00001	-0.00001
	(G * !RN * SN)	0.00002	0.00003	0.00003
	(G * !RN * SN)	0.00011	0.00011	0.00011
	(G * !RN * !SN)	-0.00005	-0.00005	-0.00004
	(G * !RN * !SN)	-0.00004	-0.00004	-0.00003
	(G * !RN * !SN)	0.00002	0.00002	0.00003
	(G * !RN * !SN)	0.00034	0.00035	0.00036
	(!G * RN * SN)	0.00000	0.00003	0.00005
	(!G * RN * SN)	0.00008	0.00009	0.00009
	(!G * RN * SN)	-0.00007	-0.00007	-0.00007
	(!G * RN * SN)	0.00084	0.00086	0.00089
	(!G * RN * !SN)	-0.00007	-0.00007	-0.00007
	(!G * RN * !SN)	-0.00004	-0.00004	-0.00004
	(!G * RN * !SN)	0.00001	0.00001	0.00001
	(!G * RN * !SN)	0.00034	0.00034	0.00034
	(!G * !RN * SN)	-0.00030	-0.00027	-0.00024
	(!G * !RN * SN)	-0.00001	-0.00000	0.00000
	(!G * !RN * SN)	0.00003	0.00004	0.00004
	(!G * !RN * SN)	0.00009	0.00009	0.00011
	(!G * !RN * !SN)	-0.00008	-0.00008	-0.00007
	(!G * !RN * !SN)	-0.00005	-0.00005	-0.00004
	(!G * !RN * !SN)	0.00002	0.00002	0.00003
	(!G * !RN * !SN)	0.00030	0.00031	0.00031

Passive power(pJ) for D falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
LATHSRX2H7H	(G * RN * !SN)	0.00002	0.00003	0.00003
	(G * RN * !SN)	0.00004	0.00004	0.00005
	(G * RN * !SN)	-0.00001	-0.00001	-0.00000
	(G * RN * !SN)	-0.00039	-0.00039	-0.00038
	(G * !RN * SN)	0.00031	0.00032	0.00033
	(G * !RN * SN)	0.00001	0.00001	0.00002
	(G * !RN * SN)	-0.00003	-0.00003	-0.00002
	(G * !RN * SN)	-0.00011	-0.00011	-0.00010
	(G * !RN * !SN)	0.00005	0.00005	0.00006
	(G * !RN * !SN)	0.00004	0.00004	0.00004
	(G * !RN * !SN)	-0.00003	-0.00002	-0.00002
	(G * !RN * !SN)	-0.00036	-0.00034	-0.00031
	(!G * RN * SN)	0.00080	0.00082	0.00086
	(!G * RN * SN)	-0.00009	-0.00009	-0.00008
	(!G * RN * SN)	0.00007	0.00007	0.00007
	(!G * RN * SN)	-0.00004	-0.00002	0.00002
	(!G * RN * !SN)	0.00007	0.00008	0.00010
	(!G * RN * !SN)	0.00005	0.00005	0.00005
	(!G * RN * !SN)	-0.00001	-0.00001	-0.00001
	(!G * RN * !SN)	-0.00032	-0.00030	-0.00027
	(!G * !RN * SN)	0.00038	0.00039	0.00039
	(!G * !RN * SN)	0.00000	0.00000	0.00001
	(!G * !RN * SN)	-0.00002	-0.00002	-0.00002
	(!G * !RN * SN)	-0.00007	-0.00006	-0.00006
	(!G * !RN * !SN)	0.00007	0.00008	0.00009
	(!G * !RN * !SN)	0.00004	0.00005	0.00005
	(!G * !RN * !SN)	-0.00002	-0.00002	-0.00002
	(!G * !RN * !SN)	-0.00031	-0.00029	-0.00026

Passive power(pJ) for G rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

LATHSRX2H7H	**(D * RN * SN)**	0.00126	0.00131	0.00137
	(D * RN * SN)	-0.00001	-0.00001	-0.00001
	(D * RN * SN)	0.00000	0.00001	0.00002
	(D * RN * SN)	0.00208	0.00213	0.00219
	(D * RN * !SN)	0.00130	0.00135	0.00142
	(D * RN * !SN)	-0.00003	-0.00003	-0.00002
	(D * RN * !SN)	0.00000	0.00001	0.00001
	(D * RN * !SN)	0.00209	0.00214	0.00220
	(D * !RN * SN)	0.00122	0.00127	0.00134
	(D * !RN * SN)	-0.00001	-0.00000	0.00000
	(D * !RN * SN)	-0.00001	-0.00001	-0.00000
	(D * !RN * SN)	0.00205	0.00211	0.00216
	(D * !RN * !SN)	0.00130	0.00135	0.00141
	(D * !RN * !SN)	-0.00003	-0.00002	-0.00002
	(D * !RN * !SN)	0.00000	0.00001	0.00001
	(D * !RN * !SN)	0.00209	0.00214	0.00219
	(!D * RN * SN)	0.00121	0.00126	0.00131
	(!D * RN * SN)	-0.00000	-0.00000	0.00000
	(!D * RN * SN)	-0.00001	-0.00001	0.00000
	(!D * RN * SN)	0.00205	0.00210	0.00216
	(!D * RN * !SN)	0.00128	0.00134	0.00140
	(!D * RN * !SN)	-0.00003	-0.00003	-0.00003
	(!D * RN * !SN)	0.00002	0.00002	0.00003
	(!D * RN * !SN)	0.00205	0.00210	0.00215
	(!D * !RN * SN)	0.00121	0.00127	0.00134
	(!D * !RN * SN)	-0.00001	-0.00000	0.00000
	(!D * !RN * SN)	-0.00001	-0.00001	-0.00000
	(!D * !RN * SN)	0.00206	0.00211	0.00217
	(!D * !RN * !SN)	0.00130	0.00135	0.00142
	(!D * !RN * !SN)	-0.00003	-0.00003	-0.00003
	(!D * !RN * !SN)	-0.00000	0.00000	0.00001
	(!D * !RN * !SN)	0.00209	0.00215	0.00223

Passive power(pJ) for G falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

LATHSRX2H7H	**(D * RN * SN)**	0.00209	0.00213	0.00220
	(D * RN * SN)	0.00001	0.00001	0.00002
	(D * RN * SN)	-0.00001	-0.00001	-0.00000
	(D * RN * SN)	0.00127	0.00132	0.00138
	(D * RN * !SN)	0.00205	0.00210	0.00216
	(D * RN * !SN)	0.00002	0.00003	0.00003
	(D * RN * !SN)	-0.00001	-0.00001	-0.00000
	(D * RN * !SN)	0.00126	0.00131	0.00137
	(D * !RN * SN)	0.00211	0.00217	0.00224
	(D * !RN * SN)	0.00000	0.00000	0.00001
	(D * !RN * SN)	0.00000	0.00001	0.00001
	(D * !RN * SN)	0.00127	0.00132	0.00139
	(D * !RN * !SN)	0.00205	0.00209	0.00216
	(D * !RN * !SN)	0.00002	0.00003	0.00003
	(D * !RN * !SN)	-0.00001	-0.00001	-0.00000
	(D * !RN * !SN)	0.00125	0.00130	0.00136
	(!D * RN * SN)	0.00212	0.00217	0.00223
	(!D * RN * SN)	-0.00000	0.00000	0.00001
	(!D * RN * SN)	0.00000	0.00001	0.00001
	(!D * RN * SN)	0.00128	0.00133	0.00139
	(!D * RN * !SN)	0.00206	0.00211	0.00217
	(!D * RN * !SN)	0.00003	0.00003	0.00004
	(!D * RN * !SN)	-0.00002	-0.00002	-0.00001
	(!D * RN * !SN)	0.00130	0.00135	0.00142
	(!D * !RN * SN)	0.00212	0.00217	0.00223
	(!D * !RN * SN)	0.00000	0.00000	0.00001
	(!D * !RN * SN)	0.00000	0.00001	0.00002
	(!D * !RN * SN)	0.00128	0.00132	0.00139
	(!D * !RN * !SN)	0.00204	0.00209	0.00215
	(!D * !RN * !SN)	0.00003	0.00003	0.00004
	(!D * !RN * !SN)	-0.00001	-0.00000	0.00000
	(!D * !RN * !SN)	0.00125	0.00130	0.00137

Passive power(pJ) for RN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
LATHSRX2H7H	(D * G * !SN)	-0.00010	-0.00009	-0.00009
	(D * G * !SN)	-0.00003	-0.00003	-0.00002
	(D * G * !SN)	0.00000	0.00001	0.00001
	(D * G * !SN)	0.00038	0.00039	0.00039
	(D * !G * SN)	-0.00022	-0.00022	-0.00022
	(D * !G * SN)	-0.00002	-0.00001	0.00000
	(D * !G * SN)	0.00001	0.00002	0.00002
	(D * !G * SN)	0.00029	0.00029	0.00030
	(D * !G * !SN)	-0.00009	-0.00009	-0.00008
	(D * !G * !SN)	-0.00004	-0.00003	-0.00003
	(D * !G * !SN)	0.00000	0.00001	0.00001
	(D * !G * !SN)	0.00039	0.00039	0.00040
	(!D * G * SN)	-0.00022	-0.00022	-0.00021
	(!D * G * SN)	-0.00001	-0.00001	0.00000
	(!D * G * SN)	0.00001	0.00002	0.00002
	(!D * G * SN)	0.00030	0.00030	0.00031
	(!D * G * !SN)	-0.00011	-0.00011	-0.00011
	(!D * G * !SN)	-0.00003	-0.00003	-0.00003
	(!D * G * !SN)	0.00001	0.00002	0.00003
	(!D * G * !SN)	0.00035	0.00035	0.00035
	(!D * !G * SN)	-0.00022	-0.00022	-0.00021
	(!D * !G * SN)	-0.00001	-0.00001	0.00000
	(!D * !G * SN)	0.00000	0.00001	0.00002
	(!D * !G * SN)	0.00030	0.00030	0.00032
	(!D * !G * !SN)	-0.00009	-0.00009	-0.00008
	(!D * !G * !SN)	-0.00003	-0.00003	-0.00003
	(!D * !G * !SN)	0.00001	0.00001	0.00001
	(!D * !G * !SN)	0.00039	0.00039	0.00039

Passive power(pJ) for RN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
LATHSRX2H7H	(D * G * !SN)	0.00009	0.00009	0.00010
	(D * G * !SN)	0.00002	0.00003	0.00004
	(D * G * !SN)	-0.00001	-0.00001	-0.00000
	(D * G * !SN)	-0.00039	-0.00038	-0.00038
	(D * !G * SN)	0.00022	0.00023	0.00025
	(D * !G * SN)	0.00000	0.00001	0.00002
	(D * !G * SN)	-0.00002	-0.00002	-0.00001
	(D * !G * SN)	-0.00030	-0.00028	-0.00027
	(D * !G * !SN)	0.00008	0.00009	0.00009
	(D * !G * !SN)	0.00003	0.00003	0.00004
	(D * !G * !SN)	-0.00001	-0.00001	-0.00000
	(D * !G * !SN)	-0.00039	-0.00039	-0.00038
	(!D * G * SN)	0.00021	0.00022	0.00023
	(!D * G * SN)	0.00000	0.00001	0.00002
	(!D * G * SN)	-0.00002	-0.00002	-0.00001
	(!D * G * SN)	-0.00030	-0.00030	-0.00028
	(!D * G * !SN)	0.00011	0.00011	0.00012
	(!D * G * !SN)	0.00003	0.00003	0.00003
	(!D * G * !SN)	-0.00002	-0.00002	-0.00001
	(!D * G * !SN)	-0.00035	-0.00034	-0.00033
	(!D * !G * SN)	0.00021	0.00022	0.00022
	(!D * !G * SN)	0.00000	0.00001	0.00002
	(!D * !G * SN)	-0.00002	-0.00001	-0.00000
	(!D * !G * SN)	-0.00030	-0.00029	-0.00026
	(!D * !G * !SN)	0.00008	0.00009	0.00009
	(!D * !G * !SN)	0.00003	0.00003	0.00004
	(!D * !G * !SN)	-0.00001	-0.00001	-0.00000
	(!D * !G * !SN)	-0.00039	-0.00039	-0.00039

Passive power(pJ) for SN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
LATHSRX2H7H	(D * G * RN)	-0.00001	0.00001	0.00005
	(D * G * RN)	0.00006	0.00006	0.00007
	(D * G * RN)	-0.00003	-0.00003	-0.00003
	(D * G * RN)	0.00082	0.00084	0.00088
	(D * !G * RN)	-0.00001	0.00001	0.00005
	(D * !G * RN)	0.00005	0.00006	0.00006
	(D * !G * RN)	-0.00003	-0.00003	-0.00003
	(D * !G * RN)	0.00081	0.00084	0.00087
	(!D * !G * RN)	-0.00002	0.00001	0.00002
	(!D * !G * RN)	0.00005	0.00006	0.00007
	(!D * !G * RN)	-0.00003	-0.00003	-0.00003
	(!D * !G * RN)	0.00081	0.00084	0.00086

Passive power(pJ) for SN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
LATHSRX2H7H	(D * G * RN)	0.00098	0.00101	0.00105
	(D * G * RN)	-0.00007	-0.00006	-0.00006
	(D * G * RN)	0.00003	0.00003	0.00003
	(D * G * RN)	0.00015	0.00018	0.00020
	(D * !G * RN)	0.00099	0.00101	0.00105
	(D * !G * RN)	-0.00006	-0.00006	-0.00005
	(D * !G * RN)	0.00003	0.00003	0.00003
	(D * !G * RN)	0.00016	0.00018	0.00020
	(!D * !G * RN)	0.00099	0.00102	0.00106
	(!D * !G * RN)	-0.00006	-0.00006	-0.00005
	(!D * !G * RN)	0.00003	0.00004	0.00004
	(!D * !G * RN)	0.00016	0.00018	0.00021

LATHSX0P5H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Latch

Q = !SN ? 1 : G ? D : pre_Q

QN = !Q

Truth Table

INPUT			OUTPUT	
D	G	SN	Q	QN
x	x	0	1	0
x	0	1	IQ	IQN
0	1	1	0	1
1	1	1	1	0

Footprint

Cell Name	Area
LATHSX0P5H7H	7.56000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)	
	D	G	SN	Q	QN
LATHSX0P5H7H	0.00130	0.00098	0.00105	0.04246	0.04257

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
LATHSX0P5H7H	0.00000	0.06820	0.07155

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHSX0P5H7H	D->Q (RR)	-	0.10629	0.29687	0.75801
	G->Q (RR)	SN	0.13842	0.31938	0.73888
	SN->Q (FR)	-	0.10801	0.28575	0.70261

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHSX0P5H7H	D->Q (FF)	-	0.17379	0.35440	0.77048
	G->Q (RF)	SN	0.15821	0.32886	0.68900
	SN->Q (RF)	-	0.19776	0.36186	0.70195

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHSX0P5H7H	D->QN (FR)	-	0.24372	0.41910	0.87875
	G->QN (RR)	SN	0.22977	0.39501	0.80755
	SN->QN (RR)	-	0.26771	0.42662	0.81935

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHSX0P5H7H	D->QN (RF)	-	0.16172	0.31317	0.68486
	G->QN (RF)	SN	0.19392	0.33595	0.67209
	SN->QN (FF)	-	0.16042	0.30282	0.63909

Constraint Information

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATHSX0P5H7H	hold	G (F)	-0.21730	-0.02780	0.13773
	setup	G (F)	-0.08402	0.05511	0.25919

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATHSX0P5H7H	hold	G (F)	-0.31206	-0.13704	-0.02916
	setup	G (F)	0.10114	0.18960	0.37831

Min Pulse Width (ns) for G:

Cell Name	High	Low
LATHSX0P5H7H	0.9851	-

Constraints(ns) for SN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATHSX0P5H7H	recovery	G (F)	0.12414	0.19886	0.32240
	removal	G (F)	-0.27616	-0.14983	-0.04974

Min Pulse Width (ns) for SN:

Cell Name	High	Low
LATHSX0P5H7H	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHSX0P5H7H	D	-	0.00138	0.00145	0.00151
	D	-	0.00005	0.00006	0.00006
	D	-	-0.00006	-0.00006	-0.00005
	D	-	0.00195	0.00202	0.00208
	G	SN	0.00196	0.00202	0.00207
	G	SN	0.00001	0.00002	0.00002
	G	SN	-0.00004	-0.00003	-0.00002
	G	SN	0.00236	0.00241	0.00246
	SN	-	0.00211	0.00218	0.00224
	SN	-	0.00007	0.00007	0.00009
	SN	-	-0.00005	-0.00003	-0.00002
	SN	-	0.00201	0.00208	0.00213

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHSX0P5H7H	D	-	0.00192	0.00198	0.00205
	D	-	-0.00006	-0.00006	-0.00005
	D	-	0.00005	0.00006	0.00006
	D	-	0.00135	0.00141	0.00147
	G	SN	0.00191	0.00198	0.00205
	G	SN	-0.00002	-0.00002	-0.00001
	G	SN	0.00002	0.00003	0.00004
	G	SN	0.00219	0.00226	0.00233
	SN	-	0.00201	0.00207	0.00214
	SN	-	-0.00009	-0.00007	-0.00007
	SN	-	0.00004	0.00004	0.00005
	SN	-	0.00210	0.00216	0.00222

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHSX0P5H7H	D	-	0.00192	0.00198	0.00205
	D	-	-0.00006	-0.00006	-0.00005
	D	-	0.00005	0.00006	0.00006
	D	-	0.00135	0.00141	0.00147
	G	SN	0.00191	0.00199	0.00205
	G	SN	-0.00002	-0.00002	-0.00001
	G	SN	0.00002	0.00003	0.00004
	G	SN	0.00219	0.00227	0.00233
	SN	-	0.00201	0.00207	0.00214
	SN	-	-0.00007	-0.00007	-0.00007
	SN	-	0.00004	0.00004	0.00005
	SN	-	0.00210	0.00216	0.00222

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHSX0P5H7H	D	-	0.00138	0.00145	0.00151
	D	-	0.00005	0.00006	0.00006
	D	-	-0.00006	-0.00006	-0.00005
	D	-	0.00195	0.00202	0.00208
	G	SN	0.00197	0.00202	0.00207
	G	SN	0.00001	0.00002	0.00002
	G	SN	-0.00004	-0.00003	-0.00002
	G	SN	0.00236	0.00241	0.00246
	SN	-	0.00211	0.00218	0.00223
	SN	-	0.00007	0.00007	0.00007
	SN	-	-0.00004	-0.00004	-0.00002
	SN	-	0.00201	0.00208	0.00213

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
LATHSX0P5H7H	0.00004	0.00007	0.00011
	0.00008	0.00009	0.00009
	-0.00006	-0.00006	-0.00005
	0.00111	0.00114	0.00120

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
LATHSX0P5H7H	0.00096	0.00098	0.00103
	-0.00009	-0.00008	-0.00008
	0.00006	0.00006	0.00006
	-0.00012	-0.00009	-0.00005

Passive power(pJ) for G rising :

Cell Name	Power(pJ)		
	min	avg	max
LATHSX0P5H7H	0.00097	0.00101	0.00106
	0.00000	0.00001	0.00001
	0.00000	0.00000	0.00000
	0.00166	0.00170	0.00175

Passive power(pJ) for G falling :

Cell Name	Power(pJ)		
	min	avg	max
LATHSX0P5H7H	0.00188	0.00191	0.00196
	0.00000	0.00001	0.00001
	0.00000	0.00000	0.00000
	0.00125	0.00128	0.00133

Passive power(pJ) for SN rising :

Cell Name	Power(pJ)		
	min	avg	max
LATHSX0P5H7H	0.00007	0.00009	0.00011
	0.00008	0.00008	0.00008
	-0.00003	-0.00003	-0.00003
	0.00100	0.00103	0.00106

Passive power(pJ) for SN falling :

Cell Name	Power(pJ)		
	min	avg	max
LATHSX0P5H7H	0.00110	0.00113	0.00118
	-0.00008	-0.00008	-0.00008
	0.00003	0.00003	0.00003
	0.00018	0.00021	0.00025

LATHSX1H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Latch

Q = !SN ? 1 : G ? D : pre_Q

QN = !Q

Truth Table

INPUT			OUTPUT	
D	G	SN	Q	QN
x	x	0	1	0
x	0	1	IQ	IQN
0	1	1	0	1
1	1	1	1	0

Footprint

Cell Name	Area
LATHSX1H7H	7.56000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)	
	D	G	SN	Q	QN
LATHSX1H7H	0.00130	0.00099	0.00105	0.04978	0.04999

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
LATHSX1H7H	0.00000	0.07460	0.07763

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHSX1H7H	D->Q (RR)	-	0.10548	0.29741	0.76025
	G->Q (RR)	SN	0.13745	0.31957	0.73975
	SN->Q (FR)	-	0.10673	0.28534	0.70282

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHSX1H7H	D->Q (FF)	-	0.17417	0.35857	0.78079
	G->Q (RF)	SN	0.15879	0.33303	0.69851
	SN->Q (RF)	-	0.19814	0.36585	0.71139

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHSX1H7H	D->QN (FR)	-	0.24751	0.42274	0.88344
	G->QN (RR)	SN	0.23375	0.39864	0.81124
	SN->QN (RR)	-	0.27151	0.43007	0.82292

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHSX1H7H	D->QN (RF)	-	0.16425	0.31770	0.69488
	G->QN (RF)	SN	0.19629	0.34010	0.68074
	SN->QN (FF)	-	0.16199	0.30634	0.64697

Constraint Information

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATHSX1H7H	hold	G (F)	-0.21801	-0.02819	0.13750
	setup	G (F)	-0.08492	0.05703	0.26434

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATHSX1H7H	hold	G (F)	-0.31209	-0.13847	-0.02888
	setup	G (F)	0.10685	0.19376	0.38293

Min Pulse Width (ns) for G:

Cell Name	High	Low
LATHSX1H7H	0.9851	-

Constraints(ns) for SN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATHSX1H7H	recovery	G (F)	0.12823	0.20245	0.32579
	removal	G (F)	-0.27471	-0.15093	-0.05214

Min Pulse Width (ns) for SN:

Cell Name	High	Low
LATHSX1H7H	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHSX1H7H	D	-	0.00143	0.00151	0.00157
	D	-	0.00005	0.00006	0.00006
	D	-	-0.00006	-0.00006	-0.00005
	D	-	0.00200	0.00208	0.00214
	G	SN	0.00202	0.00208	0.00213
	G	SN	0.00001	0.00002	0.00002
	G	SN	-0.00004	-0.00003	-0.00002
	G	SN	0.00241	0.00247	0.00252
	SN	-	0.00216	0.00224	0.00230
	SN	-	0.00006	0.00007	0.00008
	SN	-	-0.00004	-0.00003	-0.00002
	SN	-	0.00206	0.00213	0.00219

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHSX1H7H	D	-	0.00198	0.00205	0.00212
	D	-	-0.00006	-0.00006	-0.00005
	D	-	0.00005	0.00006	0.00006
	D	-	0.00140	0.00147	0.00154
	G	SN	0.00197	0.00205	0.00212
	G	SN	-0.00002	-0.00002	-0.00001
	G	SN	0.00002	0.00003	0.00004
	G	SN	0.00224	0.00233	0.00240
	SN	-	0.00206	0.00214	0.00220
	SN	-	-0.00008	-0.00007	-0.00006
	SN	-	0.00003	0.00004	0.00005
	SN	-	0.00216	0.00223	0.00229

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHSX1H7H	D	-	0.00198	0.00205	0.00212
	D	-	-0.00007	-0.00006	-0.00005
	D	-	0.00006	0.00006	0.00006
	D	-	0.00141	0.00147	0.00154
	G	SN	0.00197	0.00205	0.00212
	G	SN	-0.00002	-0.00002	-0.00001
	G	SN	0.00003	0.00003	0.00003
	G	SN	0.00225	0.00233	0.00240
	SN	-	0.00207	0.00214	0.00221
	SN	-	-0.00007	-0.00007	-0.00007
	SN	-	0.00004	0.00004	0.00004
	SN	-	0.00215	0.00223	0.00229

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHSX1H7H	D	-	0.00143	0.00151	0.00157
	D	-	0.00005	0.00006	0.00007
	D	-	-0.00006	-0.00006	-0.00006
	D	-	0.00200	0.00208	0.00214
	G	SN	0.00202	0.00208	0.00213
	G	SN	0.00001	0.00002	0.00002
	G	SN	-0.00003	-0.00003	-0.00003
	G	SN	0.00240	0.00247	0.00252
	SN	-	0.00216	0.00224	0.00230
	SN	-	0.00007	0.00007	0.00007
	SN	-	-0.00004	-0.00004	-0.00003
	SN	-	0.00206	0.00213	0.00219

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
LATHSX1H7H	0.00004	0.00007	0.00011
	0.00008	0.00008	0.00009
	-0.00006	-0.00006	-0.00005
	0.00110	0.00114	0.00119

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
LATHSX1H7H	0.00096	0.00098	0.00103
	-0.00009	-0.00008	-0.00008
	0.00006	0.00006	0.00006
	-0.00012	-0.00009	-0.00005

Passive power(pJ) for G rising :

Cell Name	Power(pJ)		
	min	avg	max
LATHSX1H7H	0.00098	0.00101	0.00106
	0.00000	0.00001	0.00001
	0.00000	0.00000	0.00000
	0.00166	0.00170	0.00174

Passive power(pJ) for G falling :

Cell Name	Power(pJ)		
	min	avg	max
LATHSX1H7H	0.00188	0.00191	0.00196
	0.00000	0.00001	0.00001
	0.00000	0.00000	0.00000
	0.00125	0.00128	0.00133

Passive power(pJ) for SN rising :

Cell Name	Power(pJ)		
	min	avg	max
LATHSX1H7H	0.00007	0.00009	0.00011
	0.00008	0.00008	0.00009
	-0.00003	-0.00003	-0.00003
	0.00100	0.00103	0.00106

Passive power(pJ) for SN falling :

Cell Name	Power(pJ)		
	min	avg	max
LATHSX1H7H	0.00110	0.00113	0.00118
	-0.00009	-0.00008	-0.00008
	0.00003	0.00003	0.00003
	0.00018	0.00021	0.00025

LATHSX2H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Latch

Q = !SN ? 1 : G ? D : pre_Q

QN = !Q

Truth Table

INPUT			OUTPUT	
D	G	SN	Q	QN
x	x	0	1	0
x	0	1	IQ	IQN
0	1	1	0	1
1	1	1	1	0

Footprint

Cell Name	Area
LATHSX2H7H	7.84000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)	
	D	G	SN	Q	QN
LATHSX2H7H	0.00130	0.00098	0.00105	0.06320	0.06351

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
LATHSX2H7H	0.00000	0.07893	0.07893

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHSX2H7H	D->Q (RR)	-	0.10892	0.30433	0.77297
	G->Q (RR)	SN	0.13987	0.32556	0.75054
	SN->Q (FR)	-	0.10850	0.28867	0.70754

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHSX2H7H	D->Q (FF)	-	0.17914	0.36351	0.78190
	G->Q (RF)	SN	0.16536	0.34010	0.70228
	SN->Q (RF)	-	0.20311	0.37028	0.70983

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHSX2H7H	D->QN (FR)	-	0.27410	0.44862	0.91144
	G->QN (RR)	SN	0.26181	0.42617	0.84009
	SN->QN (RR)	-	0.29810	0.45507	0.84647

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHSX2H7H	D->QN (RF)	-	0.18000	0.33106	0.70189
	G->QN (RF)	SN	0.21098	0.35217	0.68469
	SN->QN (FF)	-	0.17340	0.31484	0.64564

Constraint Information

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATHSX2H7H	hold	G (F)	-0.22681	-0.03061	0.13748
	setup	G (F)	-0.08606	0.06611	0.28164

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATHSX2H7H	hold	G (F)	-0.32135	-0.14286	-0.03031
	setup	G (F)	0.11392	0.21350	0.41100

Min Pulse Width (ns) for G:

Cell Name	High	Low
LATHSX2H7H	0.9851	-

Constraints(ns) for SN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATHSX2H7H	recovery	G (F)	0.13399	0.22109	0.34650
	removal	G (F)	-0.28065	-0.15467	-0.05612

Min Pulse Width (ns) for SN:

Cell Name	High	Low
LATHSX2H7H	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHSX2H7H	D	-	0.00170	0.00179	0.00187
	D	-	0.00005	0.00006	0.00006
	D	-	-0.00007	-0.00006	-0.00005
	D	-	0.00227	0.00236	0.00245
	G	SN	0.00231	0.00240	0.00247
	G	SN	0.00001	0.00001	0.00002
	G	SN	-0.00004	-0.00003	-0.00002
	G	SN	0.00269	0.00278	0.00285
	SN	-	0.00242	0.00252	0.00260
	SN	-	0.00006	0.00007	0.00009
	SN	-	-0.00006	-0.00004	-0.00002
	SN	-	0.00233	0.00242	0.00250

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHSX2H7H	D	-	0.00223	0.00230	0.00239
	D	-	-0.00006	-0.00006	-0.00005
	D	-	0.00005	0.00006	0.00007
	D	-	0.00165	0.00173	0.00182
	G	SN	0.00225	0.00235	0.00244
	G	SN	-0.00002	-0.00001	-0.00001
	G	SN	0.00002	0.00003	0.00004
	G	SN	0.00253	0.00262	0.00271
	SN	-	0.00231	0.00239	0.00248
	SN	-	-0.00009	-0.00007	-0.00006
	SN	-	0.00003	0.00004	0.00006
	SN	-	0.00240	0.00248	0.00257

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHSX2H7H	D	-	0.00223	0.00230	0.00239
	D	-	-0.00006	-0.00006	-0.00005
	D	-	0.00005	0.00006	0.00007
	D	-	0.00165	0.00173	0.00182
	G	SN	0.00225	0.00235	0.00244
	G	SN	-0.00002	-0.00001	-0.00001
	G	SN	0.00002	0.00003	0.00003
	G	SN	0.00253	0.00262	0.00271
	SN	-	0.00232	0.00239	0.00248
	SN	-	-0.00008	-0.00007	-0.00006
	SN	-	0.00003	0.00004	0.00005
	SN	-	0.00239	0.00248	0.00257

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHSX2H7H	D	-	0.00170	0.00179	0.00187
	D	-	0.00005	0.00006	0.00006
	D	-	-0.00006	-0.00006	-0.00005
	D	-	0.00227	0.00236	0.00245
	G	SN	0.00232	0.00240	0.00247
	G	SN	0.00001	0.00001	0.00002
	G	SN	-0.00003	-0.00003	-0.00002
	G	SN	0.00270	0.00278	0.00285
	SN	-	0.00243	0.00252	0.00260
	SN	-	0.00006	0.00007	0.00008
	SN	-	-0.00005	-0.00004	-0.00003
	SN	-	0.00232	0.00242	0.00250

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
LATHSX2H7H	0.00004	0.00007	0.00011
	0.00008	0.00009	0.00009
	-0.00006	-0.00006	-0.00005
	0.00111	0.00114	0.00119

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
LATHSX2H7H	0.00095	0.00098	0.00102
	-0.00009	-0.00008	-0.00008
	0.00006	0.00006	0.00006
	-0.00012	-0.00009	-0.00005

Passive power(pJ) for G rising :

Cell Name	Power(pJ)		
	min	avg	max
LATHSX2H7H	0.00105	0.00109	0.00113
	-0.00001	-0.00001	-0.00001
	0.00000	0.00001	0.00001
	0.00169	0.00173	0.00178

Passive power(pJ) for G falling :

Cell Name	Power(pJ)		
	min	avg	max
LATHSX2H7H	0.00193	0.00196	0.00201
	0.00001	0.00002	0.00002
	-0.00001	-0.00001	0.00000
	0.00132	0.00136	0.00141

Passive power(pJ) for SN rising :

Cell Name	Power(pJ)		
	min	avg	max
LATHSX2H7H	0.00007	0.00009	0.00011
	0.00008	0.00008	0.00009
	-0.00003	-0.00003	-0.00003
	0.00100	0.00103	0.00106

Passive power(pJ) for SN falling :

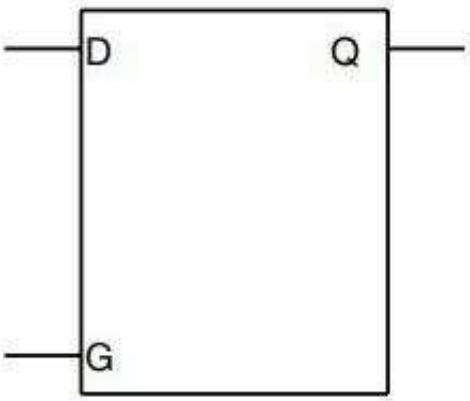
Cell Name	Power(pJ)		
	min	avg	max
LATHSX2H7H	0.00110	0.00113	0.00118
	-0.00009	-0.00008	-0.00008
	0.00003	0.00003	0.00003
	0.00018	0.00021	0.00025

LATHX0P5H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

High Enable Latch
Q = G ? D : pre_Q
QN = !Q



Truth Table

INPUT		OUTPUT	
D	G	Q	QN
x	0	IQ	IQN
0	1	0	1
1	1	1	0

Footprint

Cell Name	Area
LATHX0P5H7H	4.48000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)	
	D	G	Q	QN
LATHX0P5H7H	0.00086	0.00112	0.04273	0.04278

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
LATHX0P5H7H	0.00000	0.05043	0.05043

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHX0P5H7H	D->Q (RR)	G	0.08973	0.27374	0.72333
	G->Q (RR)	-	0.14827	0.32773	0.74885

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHX0P5H7H	D->Q (FF)	G	0.10934	0.27513	0.66684
	G->Q (RF)	-	0.12424	0.28262	0.63718

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHX0P5H7H	D->QN (FR)	G	0.15876	0.33462	0.78448
	G->QN (RR)	-	0.17416	0.34286	0.76478

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHX0P5H7H	D->QN (RF)	G	0.13451	0.28019	0.64170
	G->QN (RF)	-	0.19370	0.33498	0.67353

Constraint Information

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATHX0P5H7H	hold	G (F)	-0.18578	-0.00315	0.15793
	setup	G (F)	-0.13010	0.02431	0.21901

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATHX0P5H7H	hold	G (F)	-0.24173	-0.08165	0.02742
	setup	G (F)	0.04644	0.12239	0.29426

Min Pulse Width (ns) for G:

Cell Name	High	Low
LATHX0P5H7H	0.9851	-

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHX0P5H7H	D	G	0.00112	0.00118	0.00121
	D	G	0.00002	0.00003	0.00004
	D	G	-0.00003	-0.00003	-0.00002
	D	G	0.00151	0.00156	0.00160
	G	-	0.00178	0.00184	0.00189
	G	-	0.00003	0.00004	0.00006
	G	-	-0.00004	-0.00003	-0.00002
	G	-	0.00227	0.00234	0.00239

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHX0P5H7H	D	G	0.00142	0.00148	0.00152
	D	G	-0.00004	-0.00003	-0.00002
	D	G	0.00002	0.00003	0.00003
	D	G	0.00104	0.00109	0.00113
	G	-	0.00173	0.00181	0.00188
	G	-	-0.00004	-0.00003	-0.00002
	G	-	0.00002	0.00003	0.00005
	G	-	0.00204	0.00213	0.00220

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHX0P5H7H	D	G	0.00142	0.00148	0.00152
	D	G	-0.00004	-0.00003	-0.00003
	D	G	0.00003	0.00003	0.00003
	D	G	0.00104	0.00109	0.00113
	G	-	0.00173	0.00181	0.00188
	G	-	-0.00003	-0.00003	-0.00002
	G	-	0.00003	0.00003	0.00003
	G	-	0.00204	0.00213	0.00220

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHX0P5H7H	D	G	0.00112	0.00118	0.00121
	D	G	0.00003	0.00003	0.00004
	D	G	-0.00003	-0.00003	-0.00003
	D	G	0.00151	0.00156	0.00160
	G	-	0.00178	0.00184	0.00189
	G	-	0.00003	0.00004	0.00004
	G	-	-0.00003	-0.00003	-0.00002
	G	-	0.00228	0.00234	0.00239

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
LATHX0P5H7H	-0.00020	-0.00019	-0.00017
	-0.00003	-0.00003	-0.00003
	0.00001	0.00002	0.00002
	0.00028	0.00028	0.00028

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
LATHX0P5H7H	0.00020	0.00020	0.00020
	0.00003	0.00003	0.00003
	-0.00002	-0.00002	-0.00001
	-0.00028	-0.00027	-0.00026

Passive power(pJ) for G rising :

Cell Name	Power(pJ)		
	min	avg	max
LATHX0P5H7H	0.00110	0.00115	0.00122
	0.00001	0.00001	0.00002
	0.00000	0.00000	0.00001
	0.00194	0.00199	0.00206

Passive power(pJ) for G falling :

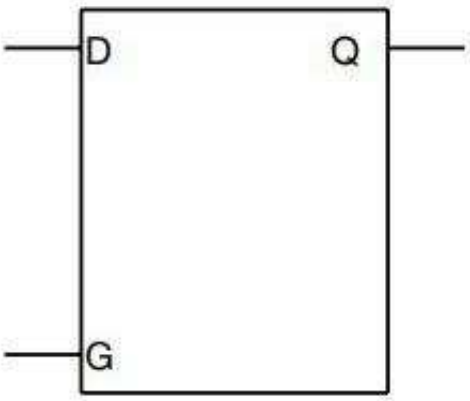
Cell Name	Power(pJ)		
	min	avg	max
LATHX0P5H7H	0.00191	0.00196	0.00202
	-0.00001	-0.00000	0.00001
	-0.00001	-0.00000	0.00000
	0.00112	0.00117	0.00124

LATHX1H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

High Enable Latch
Q = G ? D : pre_Q
QN = !Q



Truth Table

INPUT		OUTPUT	
D	G	Q	QN
x	0	IQ	IQN
0	1	0	1
1	1	1	0

Footprint

Cell Name	Area
LATHX1H7H	4.48000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)	
	D	G	Q	QN
LATHX1H7H	0.00074	0.00112	0.05049	0.05033

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
LATHX1H7H	0.00000	0.05525	0.05739

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHX1H7H	D->Q (RR)	G	0.09746	0.28569	0.74161
	G->Q (RR)	-	0.15684	0.34008	0.76375

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHX1H7H	D->Q (FF)	G	0.16066	0.34723	0.77280
	G->Q (RF)	-	0.16833	0.34264	0.71046

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHX1H7H	D->QN (FR)	G	0.22597	0.40149	0.86706
	G->QN (RR)	-	0.23417	0.39756	0.81416

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHX1H7H	D->QN (RF)	G	0.14780	0.29476	0.66303
	G->QN (RF)	-	0.20786	0.34994	0.69137

Constraint Information

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATHX1H7H	hold	G (F)	-0.19688	-0.01285	0.14645
	setup	G (F)	-0.11641	0.03752	0.23422

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATHX1H7H	hold	G (F)	-0.30555	-0.12366	-0.00955
	setup	G (F)	0.08298	0.17819	0.37582

Min Pulse Width (ns) for G:

Cell Name	High	Low
LATHX1H7H	0.9851	-

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHX1H7H	D	G	0.00118	0.00124	0.00127
	D	G	0.00001	0.00001	0.00002
	D	G	-0.00003	-0.00002	-0.00001
	D	G	0.00149	0.00155	0.00158
	G	-	0.00180	0.00186	0.00192
	G	-	0.00001	0.00002	0.00003
	G	-	-0.00003	-0.00002	-0.00001
	G	-	0.00227	0.00233	0.00239

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHX1H7H	D	G	0.00136	0.00142	0.00146
	D	G	-0.00002	-0.00001	-0.00001
	D	G	0.00001	0.00002	0.00003
	D	G	0.00105	0.00111	0.00115
	G	-	0.00171	0.00179	0.00187
	G	-	-0.00003	-0.00002	-0.00001
	G	-	0.00001	0.00002	0.00003
	G	-	0.00205	0.00213	0.00221

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHX1H7H	D	G	0.00136	0.00142	0.00146
	D	G	-0.00002	-0.00001	-0.00000
	D	G	0.00001	0.00002	0.00003
	D	G	0.00106	0.00111	0.00115
	G	-	0.00171	0.00179	0.00187
	G	-	-0.00002	-0.00002	-0.00001
	G	-	0.00001	0.00002	0.00002
	G	-	0.00205	0.00213	0.00221

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHX1H7H	D	G	0.00118	0.00124	0.00127
	D	G	0.00000	0.00001	0.00002
	D	G	-0.00003	-0.00002	-0.00001
	D	G	0.00149	0.00155	0.00158
	G	-	0.00180	0.00186	0.00192
	G	-	0.00002	0.00002	0.00002
	G	-	-0.00002	-0.00002	-0.00001
	G	-	0.00226	0.00233	0.00239

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
LATHX1H7H	-0.00016	-0.00015	-0.00014
	-0.00002	-0.00002	-0.00001
	0.00001	0.00001	0.00002
	0.00027	0.00027	0.00028

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
LATHX1H7H	0.00016	0.00016	0.00016
	0.00001	0.00002	0.00002
	-0.00002	-0.00001	-0.00001
	-0.00027	-0.00027	-0.00026

Passive power(pJ) for G rising :

Cell Name	Power(pJ)		
	min	avg	max
LATHX1H7H	0.00107	0.00112	0.00119
	-0.00000	-0.00000	0.00000
	-0.00000	0.00000	0.00001
	0.00190	0.00195	0.00202

Passive power(pJ) for G falling :

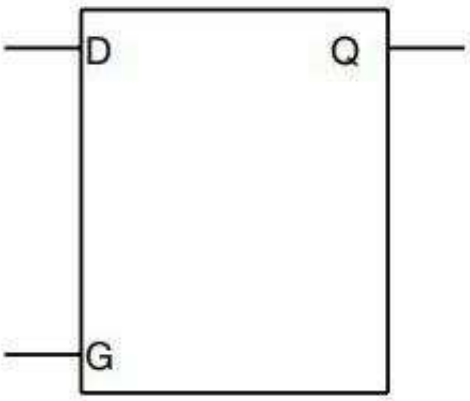
Cell Name	Power(pJ)		
	min	avg	max
LATHX1H7H	0.00190	0.00194	0.00201
	0.00000	0.00000	0.00001
	-0.00000	0.00000	0.00000
	0.00110	0.00114	0.00120

LATHX2H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

High Enable Latch
Q = G ? D : pre_Q
QN = !Q



Truth Table

INPUT		OUTPUT	
D	G	Q	QN
x	0	IQ	IQN
0	1	0	1
1	1	1	0

Footprint

Cell Name	Area
LATHX2H7H	4.76000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)	
	D	G	Q	QN
LATHX2H7H	0.00085	0.00112	0.05771	0.05720

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
LATHX2H7H	0.00000	0.06434	0.06434

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHX2H7H	D->Q (RR)	G	0.09267	0.28133	0.73968
	G->Q (RR)	-	0.15082	0.33384	0.75966

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHX2H7H	D->Q (FF)	G	0.11453	0.28796	0.69429
	G->Q (RF)	-	0.12988	0.29481	0.66023

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHX2H7H	D->QN (FR)	G	0.17098	0.34676	0.80028
	G->QN (RR)	-	0.18685	0.35431	0.77577

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHX2H7H	D->QN (RF)	G	0.14477	0.29383	0.66571
	G->QN (RF)	-	0.20353	0.34708	0.69180

Constraint Information

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATHX2H7H	hold	G (F)	-0.19443	-0.00740	0.15518
	setup	G (F)	-0.12362	0.03270	0.23435

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATHX2H7H	hold	G (F)	-0.25164	-0.08715	0.02172
	setup	G (F)	0.05009	0.13255	0.31259

Min Pulse Width (ns) for G:

Cell Name	High	Low
LATHX2H7H	0.9851	-

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHX2H7H	D	G	0.00129	0.00136	0.00141
	D	G	0.00003	0.00004	0.00004
	D	G	-0.00004	-0.00003	-0.00001
	D	G	0.00168	0.00175	0.00180
	G	-	0.00194	0.00202	0.00208
	G	-	0.00003	0.00004	0.00005
	G	-	-0.00004	-0.00003	-0.00002
	G	-	0.00245	0.00253	0.00259

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHX2H7H	D	G	0.00158	0.00165	0.00170
	D	G	-0.00004	-0.00004	-0.00003
	D	G	0.00001	0.00003	0.00004
	D	G	0.00119	0.00126	0.00132
	G	-	0.00188	0.00198	0.00206
	G	-	-0.00004	-0.00003	-0.00002
	G	-	0.00002	0.00003	0.00005
	G	-	0.00221	0.00230	0.00239

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHX2H7H	D	G	0.00158	0.00165	0.00170
	D	G	-0.00004	-0.00004	-0.00004
	D	G	0.00003	0.00003	0.00003
	D	G	0.00119	0.00126	0.00132
	G	-	0.00188	0.00198	0.00206
	G	-	-0.00004	-0.00003	-0.00003
	G	-	0.00002	0.00003	0.00003
	G	-	0.00221	0.00230	0.00239

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHX2H7H	D	G	0.00129	0.00136	0.00141
	D	G	0.00004	0.00004	0.00004
	D	G	-0.00003	-0.00003	-0.00003
	D	G	0.00168	0.00175	0.00180
	G	-	0.00194	0.00202	0.00208
	G	-	0.00004	0.00004	0.00004
	G	-	-0.00003	-0.00003	-0.00002
	G	-	0.00245	0.00253	0.00259

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
LATHX2H7H	-0.00021	-0.00020	-0.00018
	-0.00004	-0.00003	-0.00003
	0.00001	0.00002	0.00002
	0.00027	0.00027	0.00028

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
LATHX2H7H	0.00020	0.00020	0.00021
	0.00003	0.00003	0.00004
	-0.00002	-0.00002	-0.00001
	-0.00027	-0.00026	-0.00025

Passive power(pJ) for G rising :

Cell Name	Power(pJ)		
	min	avg	max
LATHX2H7H	0.00107	0.00112	0.00119
	0.00001	0.00001	0.00001
	0.00000	0.00000	0.00000
	0.00193	0.00198	0.00205

Passive power(pJ) for G falling :

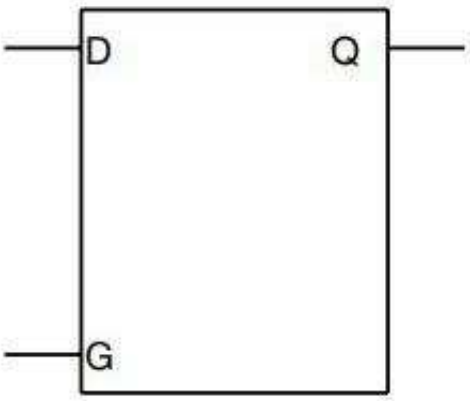
Cell Name	Power(pJ)		
	min	avg	max
LATHX2H7H	0.00191	0.00196	0.00203
	-0.00001	-0.00001	-0.00000
	-0.00000	-0.00000	0.00000
	0.00111	0.00115	0.00122

LATHX3H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

High Enable Latch
Q = G ? D : pre_Q
QN = !Q



Truth Table

INPUT		OUTPUT	
D	G	Q	QN
x	0	IQ	IQN
0	1	0	1
1	1	1	0

Footprint

Cell Name	Area
LATHX3H7H	5.32000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)	
	D	G	Q	QN
LATHX3H7H	0.00093	0.00111	0.09024	0.09023

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
LATHX3H7H	0.00000	0.07361	0.07361

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHX3H7H	D->Q (RR)	G	0.09114	0.28119	0.74145
	G->Q (RR)	-	0.14547	0.32985	0.75689

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHX3H7H	D->Q (FF)	G	0.11307	0.28724	0.69386
	G->Q (RF)	-	0.13413	0.30061	0.66827

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHX3H7H	D->QN (FR)	G	0.18054	0.35639	0.81197
	G->QN (RR)	-	0.20224	0.37016	0.79459

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHX3H7H	D->QN (RF)	G	0.15382	0.30462	0.67956
	G->QN (RF)	-	0.20861	0.35349	0.69985

Constraint Information

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATHX3H7H	hold	G (F)	-0.20119	-0.00683	0.16314
	setup	G (F)	-0.13397	0.03948	0.25369

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATHX3H7H	hold	G (F)	-0.25399	-0.08780	0.01980
	setup	G (F)	0.05845	0.14040	0.32572

Min Pulse Width (ns) for G:

Cell Name	High	Low
LATHX3H7H	0.9851	-

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHX3H7H	D	G	0.00157	0.00167	0.00174
	D	G	0.00003	0.00005	0.00006
	D	G	-0.00004	-0.00003	-0.00002
	D	G	0.00201	0.00210	0.00217
	G	-	0.00227	0.00237	0.00245
	G	-	0.00003	0.00005	0.00007
	G	-	-0.00004	-0.00003	-0.00002
	G	-	0.00278	0.00288	0.00296

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHX3H7H	D	G	0.00199	0.00207	0.00215
	D	G	-0.00006	-0.00005	-0.00003
	D	G	0.00002	0.00004	0.00005
	D	G	0.00155	0.00164	0.00171
	G	-	0.00230	0.00242	0.00253
	G	-	-0.00005	-0.00004	-0.00002
	G	-	0.00002	0.00004	0.00006
	G	-	0.00259	0.00272	0.00282

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHX3H7H	D	G	0.00199	0.00208	0.00215
	D	G	-0.00006	-0.00005	-0.00004
	D	G	0.00001	0.00004	0.00004
	D	G	0.00155	0.00164	0.00171
	G	-	0.00230	0.00243	0.00253
	G	-	-0.00006	-0.00004	-0.00002
	G	-	0.00003	0.00005	0.00006
	G	-	0.00259	0.00272	0.00282

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHX3H7H	D	G	0.00157	0.00167	0.00174
	D	G	0.00004	0.00005	0.00006
	D	G	-0.00004	-0.00004	-0.00001
	D	G	0.00200	0.00210	0.00217
	G	-	0.00227	0.00237	0.00245
	G	-	0.00005	0.00005	0.00007
	G	-	-0.00003	-0.00003	-0.00003
	G	-	0.00278	0.00288	0.00296

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
LATHX3H7H	-0.00022	-0.00020	-0.00019
	-0.00004	-0.00003	-0.00003
	0.00002	0.00002	0.00002
	0.00029	0.00029	0.00029

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
LATHX3H7H	0.00021	0.00021	0.00022
	0.00003	0.00003	0.00004
	-0.00002	-0.00002	-0.00002
	-0.00029	-0.00028	-0.00027

Passive power(pJ) for G rising :

Cell Name	Power(pJ)		
	min	avg	max
LATHX3H7H	0.00120	0.00125	0.00132
	0.00000	0.00000	0.00000
	0.00001	0.00002	0.00003
	0.00196	0.00201	0.00207

Passive power(pJ) for G falling :

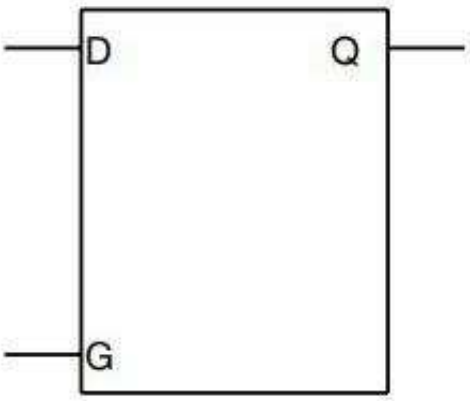
Cell Name	Power(pJ)		
	min	avg	max
LATHX3H7H	0.00202	0.00207	0.00214
	-0.00000	-0.00000	0.00000
	-0.00001	-0.00001	0.00000
	0.00120	0.00125	0.00130

LATHX4H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

High Enable Latch
Q = G ? D : pre_Q
QN = !Q



Truth Table

INPUT		OUTPUT	
D	G	Q	QN
x	0	IQ	IQN
0	1	0	1
1	1	1	0

Footprint

Cell Name	Area
LATHX4H7H	6.16000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)	
	D	G	Q	QN
LATHX4H7H	0.00093	0.00111	0.12201	0.12315

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
LATHX4H7H	0.00000	0.10432	0.10432

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHX4H7H	D->Q (RR)	G	0.10011	0.29456	0.76272
	G->Q (RR)	-	0.15506	0.34180	0.76968

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHX4H7H	D->Q (FF)	G	0.12764	0.31400	0.74760
	G->Q (RF)	-	0.14686	0.32359	0.71023

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHX4H7H	D->QN (FR)	G	0.20848	0.38445	0.84793
	G->QN (RR)	-	0.22835	0.39436	0.81854

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHX4H7H	D->QN (RF)	G	0.17852	0.33797	0.73862
	G->QN (RF)	-	0.23395	0.38521	0.74971

Constraint Information

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATHX4H7H	hold	G (F)	-0.21392	-0.01537	0.15610
	setup	G (F)	-0.12021	0.05766	0.27909

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATHX4H7H	hold	G (F)	-0.27824	-0.10159	0.00707
	setup	G (F)	0.07086	0.16245	0.36091

Min Pulse Width (ns) for G:

Cell Name	High	Low
LATHX4H7H	0.9851	-

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHX4H7H	D	G	0.00199	0.00211	0.00220
	D	G	0.00003	0.00005	0.00007
	D	G	-0.00004	-0.00003	-0.00001
	D	G	0.00242	0.00254	0.00263
	G	-	0.00267	0.00281	0.00291
	G	-	0.00002	0.00005	0.00008
	G	-	-0.00005	-0.00003	-0.00002
	G	-	0.00319	0.00332	0.00342

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHX4H7H	D	G	0.00236	0.00247	0.00257
	D	G	-0.00006	-0.00005	-0.00003
	D	G	0.00001	0.00003	0.00006
	D	G	0.00192	0.00204	0.00214
	G	-	0.00266	0.00282	0.00295
	G	-	-0.00004	-0.00004	-0.00002
	G	-	0.00002	0.00005	0.00007
	G	-	0.00296	0.00311	0.00324

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHX4H7H	D	G	0.00236	0.00248	0.00258
	D	G	-0.00006	-0.00005	-0.00003
	D	G	0.00004	0.00004	0.00004
	D	G	0.00192	0.00204	0.00214
	G	-	0.00266	0.00282	0.00295
	G	-	-0.00004	-0.00004	-0.00004
	G	-	0.00003	0.00004	0.00006
	G	-	0.00296	0.00311	0.00324

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHX4H7H	D	G	0.00199	0.00211	0.00220
	D	G	0.00003	0.00005	0.00007
	D	G	-0.00004	-0.00004	-0.00004
	D	G	0.00242	0.00254	0.00263
	G	-	0.00267	0.00281	0.00291
	G	-	0.00004	0.00005	0.00006
	G	-	-0.00004	-0.00003	-0.00003
	G	-	0.00319	0.00332	0.00342

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
LATHX4H7H	-0.00021	-0.00020	-0.00019
	-0.00003	-0.00003	-0.00002
	0.00002	0.00002	0.00002
	0.00029	0.00030	0.00030

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
LATHX4H7H	0.00021	0.00021	0.00022
	0.00002	0.00003	0.00003
	-0.00002	-0.00002	-0.00002
	-0.00030	-0.00029	-0.00028

Passive power(pJ) for G rising :

Cell Name	Power(pJ)		
	min	avg	max
LATHX4H7H	0.00114	0.00120	0.00127
	0.00001	0.00002	0.00002
	0.00001	0.00001	0.00002
	0.00197	0.00202	0.00208

Passive power(pJ) for G falling :

Cell Name	Power(pJ)		
	min	avg	max
LATHX4H7H	0.00200	0.00204	0.00211
	-0.00002	-0.00001	-0.00001
	-0.00002	-0.00001	-0.00001
	0.00117	0.00122	0.00129

LATLRX0P5H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Latch

Q = !RN ? 0 : !EN ? D : pre_Q

QN = !Q

Truth Table

INPUT			OUTPUT	
D	GN	RN	Q	QN
0	0	x	0	1
x	1	0	0	1
x	1	1	IQ	IQN
1	x	0	0	1
1	0	1	1	0

Footprint

Cell Name	Area
LATLRX0P5H7H	5.60000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)	
	D	GN	RN	Q	QN
LATLRX0P5H7H	0.00089	0.00109	0.00115	0.04259	0.04269

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
LATLRX0P5H7H	0.00000	0.05731	0.07257

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLRX0P5H7H	D->Q (RR)	-	0.12897	0.32341	0.78833
	GN->Q (FR)	RN	0.15155	0.34618	0.79478
	RN->Q (RR)	-	0.13207	0.32694	0.79101

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLRX0P5H7H	D->Q (FF)	-	0.11015	0.28211	0.68258
	GN->Q (FF)	RN	0.16037	0.32614	0.69117
	RN->Q (FF)	-	0.09550	0.27210	0.69373

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLRX0P5H7H	D->QN (FR)	-	0.16603	0.34651	0.80122
	GN->QN (FR)	RN	0.21637	0.39115	0.82169
	RN->QN (FR)	-	0.14856	0.33654	0.81041

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLRX0P5H7H	D->QN (RF)	-	0.18609	0.33577	0.70647
	GN->QN (FF)	RN	0.20975	0.35956	0.71976
	RN->QN (RF)	-	0.18921	0.33921	0.71019

Constraint Information

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATLRX0P5H7H	hold	GN (R)	-0.24592	-0.09964	-0.00890
	setup	GN (R)	0.07339	0.14673	0.30248

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATLRX0P5H7H	hold	GN (R)	-0.24331	-0.04375	0.11857
	setup	GN (R)	-0.03854	0.08303	0.28547

Min Pulse Width (ns) for GN:

Cell Name	High	Low
LATLRX0P5H7H	-	0.9851

Constraints(ns) for RN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATLRX0P5H7H	recovery	GN (R)	0.07864	0.15282	0.30690
	removal	GN (R)	-0.26312	-0.10705	-0.01638

Min Pulse Width (ns) for RN:

Cell Name	High	Low
LATLRX0P5H7H	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLRX0P5H7H	D	-	0.00127	0.00131	0.00136
	D	-	0.00006	0.00006	0.00007
	D	-	-0.00004	-0.00004	-0.00004
	D	-	0.00170	0.00175	0.00179
	GN	RN	0.00219	0.00227	0.00234
	GN	RN	0.00002	0.00003	0.00003
	GN	RN	-0.00002	-0.00001	-0.00000
	GN	RN	0.00188	0.00195	0.00202
	RN	-	0.00129	0.00134	0.00138
	RN	-	0.00006	0.00006	0.00007
	RN	-	-0.00006	-0.00005	-0.00003
	RN	-	0.00193	0.00198	0.00202

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLRX0P5H7H	D	-	0.00161	0.00166	0.00170
	D	-	-0.00007	-0.00006	-0.00006
	D	-	0.00004	0.00004	0.00004
	D	-	0.00117	0.00122	0.00127
	GN	RN	0.00237	0.00242	0.00247
	GN	RN	-0.00003	-0.00003	-0.00002
	GN	RN	0.00000	0.00001	0.00002
	GN	RN	0.00188	0.00193	0.00198
	RN	-	0.00169	0.00176	0.00182
	RN	-	-0.00005	-0.00005	-0.00003
	RN	-	0.00003	0.00005	0.00006
	RN	-	0.00108	0.00115	0.00121

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLRX0P5H7H	D	-	0.00161	0.00166	0.00170
	D	-	-0.00007	-0.00006	-0.00006
	D	-	0.00004	0.00004	0.00005
	D	-	0.00117	0.00122	0.00127
	GN	RN	0.00237	0.00243	0.00248
	GN	RN	-0.00004	-0.00003	-0.00003
	GN	RN	0.00001	0.00001	0.00002
	GN	RN	0.00188	0.00193	0.00198
	RN	-	0.00169	0.00176	0.00182
	RN	-	-0.00006	-0.00005	-0.00004
	RN	-	0.00005	0.00005	0.00005
	RN	-	0.00108	0.00115	0.00121

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLRX0P5H7H	D	-	0.00127	0.00131	0.00135
	D	-	0.00006	0.00006	0.00007
	D	-	-0.00005	-0.00004	-0.00004
	D	-	0.00170	0.00175	0.00179
	GN	RN	0.00219	0.00226	0.00234
	GN	RN	0.00003	0.00003	0.00004
	GN	RN	-0.00002	-0.00001	-0.00001
	GN	RN	0.00188	0.00195	0.00202
	RN	-	0.00129	0.00134	0.00138
	RN	-	0.00006	0.00006	0.00007
	RN	-	-0.00005	-0.00005	-0.00005
	RN	-	0.00193	0.00198	0.00202

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
LATLRX0P5H7H	-0.00004	-0.00002	0.00001
	0.00007	0.00007	0.00008
	-0.00006	-0.00006	-0.00006
	0.00069	0.00071	0.00074

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
LATLRX0P5H7H	0.00071	0.00073	0.00077
	-0.00007	-0.00007	-0.00007
	0.00006	0.00006	0.00006
	-0.00003	-0.00001	0.00003

Passive power(pJ) for GN rising :

Cell Name	Power(pJ)		
	min	avg	max
LATLRX0P5H7H	0.00125	0.00129	0.00136
	0.00000	0.00000	0.00000
	0.00002	0.00002	0.00002
	0.00201	0.00206	0.00212

Passive power(pJ) for GN falling :

Cell Name	Power(pJ)		
	min	avg	max
LATLRX0P5H7H	0.00191	0.00196	0.00201
	0.00000	0.00000	0.00000
	-0.00001	0.00000	0.00001
	0.00109	0.00114	0.00119

Passive power(pJ) for RN rising :

Cell Name	Power(pJ)		
	min	avg	max
LATLRX0P5H7H	-0.00019	-0.00019	-0.00019
	-0.00001	-0.00001	0.00000
	0.00001	0.00002	0.00003
	0.00045	0.00046	0.00047

Passive power(pJ) for RN falling :

Cell Name	Power(pJ)		
	min	avg	max
LATLRX0P5H7H	0.00019	0.00019	0.00021
	0.00000	0.00001	0.00001
	-0.00003	-0.00002	-0.00001
	-0.00045	-0.00044	-0.00041

LATLRX1H7H

Cell Description

Latch

Q = !RN ? 0 : !EN ? D : pre_Q

QN = !Q

Truth Table

INPUT			OUTPUT	
D	GN	RN	Q	QN
0	0	x	0	1
x	1	0	0	1
x	1	1	IQ	IQN
1	x	0	0	1
1	0	1	1	0

Footprint

Cell Name	Area
LATLRX1H7H	5.60000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)	
	D	GN	RN	Q	QN
LATLRX1H7H	0.00089	0.00109	0.00115	0.04996	0.05033

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
LATLRX1H7H	0.00000	0.06385	0.07918

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLRX1H7H	D->Q (RR)	-	0.12873	0.32518	0.79252
	GN->Q (FR)	RN	0.15116	0.34743	0.79713
	RN->Q (RR)	-	0.13187	0.32868	0.79497

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLRX1H7H	D->Q (FF)	-	0.10814	0.28266	0.68797
	GN->Q (FF)	RN	0.15867	0.32699	0.69678
	RN->Q (FF)	-	0.09570	0.27577	0.70395

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLRX1H7H	D->QN (FR)	-	0.16515	0.34608	0.80231
	GN->QN (FR)	RN	0.21576	0.39100	0.82288
	RN->QN (FR)	-	0.15026	0.33916	0.81605

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLRX1H7H	D->QN (RF)	-	0.18882	0.34092	0.71831
	GN->QN (FF)	RN	0.21228	0.36418	0.73009
	RN->QN (RF)	-	0.19195	0.34434	0.72202

Constraint Information

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATLRX1H7H	hold	GN (R)	-0.25065	-0.10106	-0.00953
	setup	GN (R)	0.07959	0.14944	0.30725

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATLRX1H7H	hold	GN (R)	-0.24112	-0.04296	0.12257
	setup	GN (R)	-0.03811	0.08217	0.28740

Min Pulse Width (ns) for GN:

Cell Name	High	Low
LATLRX1H7H	-	0.9851

Constraints(ns) for RN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATLRX1H7H	recovery	GN (R)	0.08049	0.15568	0.31167
	removal	GN (R)	-0.26566	-0.10829	-0.01670

Min Pulse Width (ns) for RN:

Cell Name	High	Low
LATLRX1H7H	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLRX1H7H	D	-	0.00130	0.00135	0.00140
	D	-	0.00006	0.00006	0.00007
	D	-	-0.00004	-0.00004	-0.00003
	D	-	0.00174	0.00179	0.00184
	GN	RN	0.00223	0.00231	0.00238
	GN	RN	0.00003	0.00003	0.00003
	GN	RN	-0.00001	-0.00001	-0.00000
	GN	RN	0.00191	0.00199	0.00206
	RN	-	0.00132	0.00138	0.00142
	RN	-	0.00006	0.00007	0.00007
	RN	-	-0.00006	-0.00005	-0.00002
	RN	-	0.00197	0.00202	0.00207

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLRX1H7H	D	-	0.00166	0.00171	0.00177
	D	-	-0.00007	-0.00006	-0.00006
	D	-	0.00003	0.00004	0.00005
	D	-	0.00122	0.00127	0.00133
	GN	RN	0.00242	0.00248	0.00253
	GN	RN	-0.00003	-0.00003	-0.00003
	GN	RN	0.00000	0.00001	0.00001
	GN	RN	0.00192	0.00198	0.00204
	RN	-	0.00174	0.00181	0.00188
	RN	-	-0.00005	-0.00005	-0.00002
	RN	-	0.00002	0.00005	0.00006
	RN	-	0.00113	0.00120	0.00127

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLRX1H7H	D	-	0.00166	0.00171	0.00177
	D	-	-0.00007	-0.00006	-0.00006
	D	-	0.00004	0.00004	0.00004
	D	-	0.00122	0.00128	0.00133
	GN	RN	0.00242	0.00248	0.00253
	GN	RN	-0.00003	-0.00003	-0.00003
	GN	RN	0.00001	0.00001	0.00002
	GN	RN	0.00192	0.00198	0.00204
	RN	-	0.00174	0.00182	0.00188
	RN	-	-0.00005	-0.00005	-0.00004
	RN	-	0.00002	0.00005	0.00006
	RN	-	0.00113	0.00121	0.00127

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLRX1H7H	D	-	0.00130	0.00135	0.00140
	D	-	0.00006	0.00006	0.00007
	D	-	-0.00004	-0.00004	-0.00004
	D	-	0.00174	0.00179	0.00184
	GN	RN	0.00223	0.00231	0.00238
	GN	RN	0.00003	0.00003	0.00003
	GN	RN	-0.00002	-0.00001	-0.00001
	GN	RN	0.00191	0.00199	0.00206
	RN	-	0.00132	0.00138	0.00142
	RN	-	0.00006	0.00007	0.00007
	RN	-	-0.00006	-0.00005	-0.00002
	RN	-	0.00197	0.00202	0.00207

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
LATLRX1H7H	-0.00004	-0.00003	0.00001
	0.00007	0.00007	0.00008
	-0.00006	-0.00006	-0.00006
	0.00069	0.00071	0.00075

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
LATLRX1H7H	0.00071	0.00073	0.00078
	-0.00007	-0.00007	-0.00007
	0.00006	0.00006	0.00006
	-0.00002	-0.00000	0.00004

Passive power(pJ) for GN rising :

Cell Name	Power(pJ)		
	min	avg	max
LATLRX1H7H	0.00121	0.00125	0.00131
	0.00000	0.00000	0.00001
	0.00001	0.00002	0.00002
	0.00200	0.00205	0.00211

Passive power(pJ) for GN falling :

Cell Name	Power(pJ)		
	min	avg	max
LATLRX1H7H	0.00192	0.00196	0.00201
	-0.00000	-0.00000	0.00000
	-0.00001	0.00000	0.00001
	0.00110	0.00114	0.00120

Passive power(pJ) for RN rising :

Cell Name	Power(pJ)		
	min	avg	max
LATLRX1H7H	-0.00019	-0.00019	-0.00019
	-0.00001	-0.00001	0.00000
	0.00001	0.00002	0.00003
	0.00045	0.00046	0.00047

Passive power(pJ) for RN falling :

Cell Name	Power(pJ)		
	min	avg	max
LATLRX1H7H	0.00019	0.00019	0.00021
	0.00000	0.00001	0.00002
	-0.00003	-0.00002	-0.00001
	-0.00045	-0.00044	-0.00041

LATLRX2H7H

Cell Description

Latch

Q = !RN ? 0 : !EN ? D : pre_Q

QN = !Q

Truth Table

INPUT			OUTPUT	
D	GN	RN	Q	QN
0	0	x	0	1
x	1	0	0	1
x	1	1	IQ	IQN
1	x	0	0	1
1	0	1	1	0

Footprint

Cell Name	Area
LATLRX2H7H	5.88000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)	
	D	GN	RN	Q	QN
LATLRX2H7H	0.00089	0.00109	0.00115	0.06335	0.06356

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
LATLRX2H7H	0.00000	0.06920	0.09403

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLRX2H7H	D->Q (RR)	-	0.12853	0.32845	0.79996
	GN->Q (FR)	RN	0.15131	0.35069	0.80262
	RN->Q (RR)	-	0.13174	0.33194	0.80200

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLRX2H7H	D->Q (FF)	-	0.11180	0.29996	0.73656
	GN->Q (FF)	RN	0.16199	0.34341	0.74252
	RN->Q (FF)	-	0.09873	0.29194	0.75117

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLRX2H7H	D->QN (FR)	-	0.18137	0.36227	0.82063
	GN->QN (FR)	RN	0.23157	0.40602	0.83700
	RN->QN (FR)	-	0.16482	0.35426	0.83413

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLRX2H7H	D->QN (RF)	-	0.20638	0.35454	0.72248
	GN->QN (FF)	RN	0.23019	0.37740	0.73089
	RN->QN (RF)	-	0.20959	0.35781	0.72556

Constraint Information

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATLRX2H7H	hold	GN (R)	-0.25222	-0.10145	-0.00972
	setup	GN (R)	0.08779	0.15954	0.32398

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATLRX2H7H	hold	GN (R)	-0.24719	-0.04620	0.11703
	setup	GN (R)	-0.03674	0.08888	0.30200

Min Pulse Width (ns) for GN:

Cell Name	High	Low
LATLRX2H7H	-	0.9851

Constraints(ns) for RN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATLRX2H7H	recovery	GN (R)	0.08908	0.16469	0.32859
	removal	GN (R)	-0.26772	-0.10823	-0.01394

Min Pulse Width (ns) for RN:

Cell Name	High	Low
LATLRX2H7H	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLRX2H7H	D	-	0.00155	0.00162	0.00168
	D	-	0.00006	0.00006	0.00007
	D	-	-0.00005	-0.00004	-0.00003
	D	-	0.00199	0.00206	0.00212
	GN	RN	0.00249	0.00258	0.00267
	GN	RN	0.00002	0.00003	0.00004
	GN	RN	-0.00002	-0.00001	-0.00000
	GN	RN	0.00217	0.00227	0.00235
	RN	-	0.00158	0.00165	0.00171
	RN	-	0.00006	0.00007	0.00008
	RN	-	-0.00007	-0.00005	-0.00003
	RN	-	0.00222	0.00229	0.00236

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLRX2H7H	D	-	0.00188	0.00196	0.00203
	D	-	-0.00007	-0.00006	-0.00006
	D	-	0.00003	0.00004	0.00005
	D	-	0.00144	0.00152	0.00159
	GN	RN	0.00264	0.00272	0.00279
	GN	RN	-0.00004	-0.00003	-0.00002
	GN	RN	0.00000	0.00001	0.00002
	GN	RN	0.00214	0.00223	0.00230
	RN	-	0.00197	0.00206	0.00214
	RN	-	-0.00006	-0.00005	-0.00004
	RN	-	0.00003	0.00005	0.00007
	RN	-	0.00135	0.00145	0.00153

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLRX2H7H	D	-	0.00188	0.00196	0.00203
	D	-	-0.00007	-0.00006	-0.00006
	D	-	0.00003	0.00004	0.00005
	D	-	0.00144	0.00152	0.00159
	GN	RN	0.00264	0.00272	0.00279
	GN	RN	-0.00004	-0.00003	-0.00002
	GN	RN	0.00001	0.00001	0.00002
	GN	RN	0.00215	0.00223	0.00230
	RN	-	0.00197	0.00206	0.00215
	RN	-	-0.00005	-0.00005	-0.00004
	RN	-	0.00003	0.00003	0.00006
	RN	-	0.00135	0.00145	0.00153

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLRX2H7H	D	-	0.00155	0.00162	0.00168
	D	-	0.00006	0.00006	0.00007
	D	-	-0.00005	-0.00004	-0.00003
	D	-	0.00199	0.00206	0.00212
	GN	RN	0.00249	0.00258	0.00267
	GN	RN	0.00002	0.00003	0.00004
	GN	RN	-0.00002	-0.00001	-0.00001
	GN	RN	0.00217	0.00227	0.00235
	RN	-	0.00158	0.00165	0.00171
	RN	-	0.00006	0.00007	0.00007
	RN	-	-0.00005	-0.00003	-0.00003
	RN	-	0.00222	0.00230	0.00236

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
LATLRX2H7H	-0.00004	-0.00002	0.00001
	0.00007	0.00007	0.00007
	-0.00006	-0.00006	-0.00006
	0.00069	0.00071	0.00075

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
LATLRX2H7H	0.00072	0.00073	0.00077
	-0.00007	-0.00007	-0.00007
	0.00006	0.00006	0.00006
	-0.00002	-0.00000	0.00004

Passive power(pJ) for GN rising :

Cell Name	Power(pJ)		
	min	avg	max
LATLRX2H7H	0.00121	0.00126	0.00133
	-0.00000	-0.00000	0.00000
	0.00001	0.00002	0.00002
	0.00200	0.00205	0.00211

Passive power(pJ) for GN falling :

Cell Name	Power(pJ)		
	min	avg	max
LATLRX2H7H	0.00192	0.00196	0.00201
	-0.00000	0.00000	0.00000
	-0.00001	-0.00000	0.00001
	0.00110	0.00114	0.00120

Passive power(pJ) for RN rising :

Cell Name	Power(pJ)		
	min	avg	max
LATLRX2H7H	-0.00019	-0.00019	-0.00019
	-0.00001	-0.00001	-0.00001
	0.00001	0.00002	0.00003
	0.00045	0.00046	0.00047

Passive power(pJ) for RN falling :

Cell Name	Power(pJ)		
	min	avg	max
LATLRX2H7H	0.00019	0.00019	0.00019
	0.00001	0.00001	0.00003
	-0.00003	-0.00002	-0.00001
	-0.00045	-0.00044	-0.00042

LATLSRX0P5H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Low Enable Latch with Clear and Set
Q = !SN ? 1 : !RN ? 0 : !EN ? D : pre_Q
QN = !Q

Truth Table

INPUT				OUTPUT	
D	GN	RN	SN	Q	QN
x	x	x	x	-	-

Footprint

Cell Name	Area
LATLSRX0P5H7H	9.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)	
	D	GN	RN	SN	Q	QN
LATLSRX0P5H7H	0.00148	0.00089	0.00086	0.00085	0.04248	0.04266

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
LATLSRX0P5H7H	0.00000	0.07281	0.09829

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLSRX0P5H7H	D->Q (RR)	-	0.14067	0.33144	0.78748
	GN->Q (RR)	-	-0.46632	-0.01306	0.41154
	RN->Q (RR)	(D * GN)	-0.46634	-0.01220	0.41327
	SN->Q (FR)	(D * !GN * RN)	-0.46632	-0.01204	0.41352
	SN->Q (FR)	(!D * !GN * RN)	0.11288	0.29163	0.70116
	SN->Q (FR)	(D * GN * !RN)	0.10551	0.28229	0.69627
	SN->Q (FR)	(D * !GN * !RN)	0.11575	0.29900	0.71276
	SN->Q (FR)	(!D * GN * RN)	0.10357	0.27565	0.68171
	SN->Q (FR)	(!D * GN * !RN)	0.11095	0.28589	0.69530
	SN->Q (FR)	(!D * !GN * !RN)	0.11646	0.29395	0.70280

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLSRX0P5H7H	D->Q (FF)	-	0.18488	0.36505	0.77998
	GN->Q (RF)	-	-0.46893	-0.04281	0.31011
	RN->Q (FF)	(D * !GN)	0.19764	0.40247	0.86947
	RN->Q (FF)	(!D * !GN)	-0.46893	-0.04318	0.30631
	RN->Q (FF)	(D * GN)	0.18474	0.37267	0.81476
	SN->Q (RF)	(D * GN * !RN)	0.22071	0.38004	0.70757
	SN->Q (RF)	(D * !GN * !RN)	0.23353	0.40947	0.75699
	SN->Q (RF)	(!D * GN * RN)	0.22329	0.38308	0.71269
	SN->Q (RF)	(!D * GN * !RN)	0.22329	0.38308	0.71269
	SN->Q (RF)	(!D * !GN * !RN)	0.17819	0.33046	0.65659

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLSRX0P5H7H	D->QN (FR)	-	0.25135	0.42984	0.89131
	GN->QN (RR)	-	-0.46643	-0.01207	0.41471
	RN->QN (FR)	(D * !GN)	0.27337	0.46375	0.96344
	RN->QN (FR)	(!D * !GN)	-0.46643	-0.01217	0.41432
	RN->QN (FR)	(D * GN)	0.25290	0.44153	0.93889
	SN->QN (RR)	(D * GN * !RN)	0.28894	0.44885	0.83582
	SN->QN (RR)	(D * !GN * !RN)	0.30928	0.47090	0.85823
	SN->QN (RR)	(!D * GN * RN)	0.29080	0.45122	0.83966
	SN->QN (RR)	(!D * GN * !RN)	0.29080	0.45122	0.83966
	SN->QN (RR)	(!D * !GN * !RN)	0.23566	0.39692	0.78665

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLSRX0P5H7H	D->QN (RF)	-	0.20008	0.34796	0.71164
	GN->QN (RF)	-	-0.46900	-0.04376	0.30516
	RN->QN (RF)	(D * GN)	-0.46900	-0.04379	0.30494
	SN->QN (FF)	(D * !GN * RN)	-0.46900	-0.04382	0.30490
	SN->QN (FF)	(!D * !GN * RN)	0.16982	0.30997	0.63719
	SN->QN (FF)	(D * GN * !RN)	0.15638	0.29674	0.62449
	SN->QN (FF)	(D * !GN * !RN)	0.17560	0.31687	0.64481
	SN->QN (FF)	(!D * GN * RN)	0.15475	0.29460	0.62202
	SN->QN (FF)	(!D * GN * !RN)	0.16322	0.30338	0.63077
	SN->QN (FF)	(!D * !GN * !RN)	0.17127	0.31122	0.63883

Constraint Information

Min Pulse Width (ns) for GN:

Cell Name	High	Low
LATLSRX0P5H7H	0.9851	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

LATLSRX0P5H7H	**D**	**-**	0.00130	0.00133	0.00136
	D	**-**	0.00006	0.00008	0.00008
	D	**-**	-0.00008	-0.00007	-0.00005
	D	**-**	0.00235	0.00239	0.00243
	GN	**-**	0.00156	0.00159	0.00168
	GN	**-**	-0.00004	-0.00003	-0.00002
	GN	**-**	0.00000	0.00003	0.00006
	GN	**-**	0.00227	0.00229	0.00232
	RN	**(D * GN)**	0.00036	0.00039	0.00053
	RN	**(D * GN)**	0.00000	0.00000	0.00000
	RN	**(D * GN)**	0.00003	0.00004	0.00004
	RN	**(D * GN)**	0.00033	0.00033	0.00034
	SN	**(D * GN * !RN)**	0.00195	0.00199	0.00202
	SN	**(D * GN * !RN)**	0.00009	0.00010	0.00011
	SN	**(D * GN * !RN)**	-0.00008	-0.00007	-0.00006
	SN	**(D * GN * !RN)**	0.00253	0.00256	0.00260
	SN	**(D * !GN * RN)**	0.00134	0.00137	0.00150
	SN	**(D * !GN * RN)**	-0.00013	-0.00011	-0.00010
	SN	**(D * !GN * RN)**	0.00006	0.00006	0.00007
	SN	**(D * !GN * RN)**	0.00014	0.00016	0.00020
	SN	**(D * !GN * !RN)**	0.00197	0.00200	0.00204
	SN	**(D * !GN * !RN)**	0.00012	0.00013	0.00014
	SN	**(D * !GN * !RN)**	-0.00011	-0.00010	-0.00009
	SN	**(D * !GN * !RN)**	0.00293	0.00296	0.00300
	SN	**(!D * GN * RN)**	0.00192	0.00195	0.00198
	SN	**(!D * GN * RN)**	0.00003	0.00006	0.00006
	SN	**(!D * GN * RN)**	-0.00006	-0.00005	-0.00004
	SN	**(!D * GN * RN)**	0.00201	0.00205	0.00209
	SN	**(!D * GN * !RN)**	0.00195	0.00198	0.00201
	SN	**(!D * GN * !RN)**	0.00011	0.00012	0.00014
	SN	**(!D * GN * !RN)**	-0.00008	-0.00006	-0.00005
	SN	**(!D * GN * !RN)**	0.00244	0.00248	0.00252
	SN	**(!D * !GN * RN)**	0.00195	0.00199	0.00202
	SN	**(!D * !GN * RN)**	0.00013	0.00013	0.00015
	SN	**(!D * !GN * RN)**	-0.00006	-0.00006	-0.00004
	SN	**(!D * !GN * RN)**	0.00261	0.00265	0.00268
	SN	**(!D * !GN * !RN)**	0.00193	0.00197	0.00200
	SN	**(!D * !GN * !RN)**	0.00013	0.00013	0.00015
	SN	**(!D * !GN * !RN)**	-0.00005	-0.00005	-0.00004
	SN	**(!D * !GN * !RN)**	0.00256	0.00260	0.00263

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

LATLSRX0P5H7H	**D**	**-**	0.00231	0.00235	0.00238
	D	**-**	-0.00008	-0.00008	-0.00006
	D	**-**	0.00005	0.00007	0.00008
	D	**-**	0.00125	0.00129	0.00132
	GN	**-**	0.00138	0.00141	0.00144
	GN	**-**	0.00002	0.00004	0.00006
	GN	**-**	-0.00002	-0.00002	0.00000
	GN	**-**	0.00253	0.00256	0.00263
	RN	**(D * GN)**	0.00214	0.00217	0.00220
	RN	**(D * GN)**	0.00000	0.00000	0.00000
	RN	**(D * GN)**	0.00007	0.00008	0.00009
	RN	**(D * GN)**	0.00135	0.00138	0.00141
	RN	**(D * !GN)**	0.00258	0.00261	0.00265
	RN	**(D * !GN)**	-0.00009	-0.00009	-0.00008
	RN	**(D * !GN)**	0.00011	0.00012	0.00013
	RN	**(D * !GN)**	0.00134	0.00137	0.00141
	RN	**(!D * !GN)**	0.00022	0.00023	0.00023
	RN	**(!D * !GN)**	0.00004	0.00005	0.00006
	RN	**(!D * !GN)**	-0.00006	-0.00006	-0.00005
	RN	**(!D * !GN)**	0.00023	0.00026	0.00040
	SN	**(D * GN * !RN)**	0.00246	0.00249	0.00253
	SN	**(D * GN * !RN)**	-0.00011	-0.00010	-0.00009
	SN	**(D * GN * !RN)**	0.00006	0.00007	0.00008
	SN	**(D * GN * !RN)**	0.00194	0.00197	0.00201
	SN	**(D * !GN * !RN)**	0.00290	0.00294	0.00297
	SN	**(D * !GN * !RN)**	-0.00014	-0.00013	-0.00012
	SN	**(D * !GN * !RN)**	0.00010	0.00011	0.00011
	SN	**(D * !GN * !RN)**	0.00194	0.00197	0.00200
	SN	**(!D * GN * !RN)**	0.00276	0.00279	0.00282
	SN	**(!D * GN * !RN)**	-0.00014	-0.00012	-0.00011
	SN	**(!D * GN * !RN)**	0.00007	0.00009	0.00010
	SN	**(!D * GN * !RN)**	0.00196	0.00199	0.00203
	SN	**(!D * !GN * !RN)**	0.00262	0.00265	0.00269
	SN	**(!D * !GN * !RN)**	-0.00014	-0.00013	-0.00013
	SN	**(!D * !GN * !RN)**	0.00004	0.00005	0.00006
	SN	**(!D * !GN * !RN)**	0.00192	0.00195	0.00199

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

LATLSRX0P5H7H	**D**	**-**	0.00231	0.00235	0.00238
	D	**-**	-0.00008	-0.00008	-0.00007
	D	**-**	0.00006	0.00007	0.00008
	D	**-**	0.00125	0.00129	0.00132
	GN	**-**	0.00166	0.00169	0.00175
	GN	**-**	-0.00007	-0.00006	-0.00004
	GN	**-**	0.00004	0.00006	0.00007
	GN	**-**	0.00227	0.00229	0.00234
	RN	**(D * GN)**	0.00214	0.00217	0.00220
	RN	**(D * GN)**	-0.00004	-0.00002	-0.00002
	RN	**(D * GN)**	0.00008	0.00008	0.00010
	RN	**(D * GN)**	0.00134	0.00138	0.00141
	RN	**(D * !GN)**	0.00258	0.00261	0.00265
	RN	**(D * !GN)**	-0.00010	-0.00009	-0.00008
	RN	**(D * !GN)**	0.00011	0.00012	0.00012
	RN	**(D * !GN)**	0.00134	0.00137	0.00141
	RN	**(!D * !GN)**	0.00047	0.00048	0.00063
	RN	**(!D * !GN)**	-0.00005	-0.00004	-0.00003
	RN	**(!D * !GN)**	0.00000	0.00002	0.00002
	RN	**(!D * !GN)**	-0.00004	-0.00002	0.00002
	SN	**(D * GN * !RN)**	0.00246	0.00249	0.00253
	SN	**(D * GN * !RN)**	-0.00011	-0.00010	-0.00009
	SN	**(D * GN * !RN)**	0.00005	0.00007	0.00009
	SN	**(D * GN * !RN)**	0.00194	0.00197	0.00201
	SN	**(D * !GN * !RN)**	0.00291	0.00294	0.00297
	SN	**(D * !GN * !RN)**	-0.00014	-0.00013	-0.00011
	SN	**(D * !GN * !RN)**	0.00009	0.00011	0.00011
	SN	**(D * !GN * !RN)**	0.00194	0.00197	0.00200
	SN	**(!D * GN * !RN)**	0.00276	0.00279	0.00282
	SN	**(!D * GN * !RN)**	-0.00013	-0.00012	-0.00011
	SN	**(!D * GN * !RN)**	0.00007	0.00009	0.00010
	SN	**(!D * GN * !RN)**	0.00196	0.00200	0.00203
	SN	**(!D * !GN * !RN)**	0.00262	0.00265	0.00269
	SN	**(!D * !GN * !RN)**	-0.00014	-0.00013	-0.00012
	SN	**(!D * !GN * !RN)**	0.00005	0.00005	0.00005
	SN	**(!D * !GN * !RN)**	0.00192	0.00195	0.00199

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

LATLSRX0P5H7H	**D**	**-**	0.00130	0.00133	0.00136
	D	**-**	0.00007	0.00008	0.00008
	D	**-**	-0.00008	-0.00007	-0.00006
	D	**-**	0.00236	0.00239	0.00243
	GN	**-**	0.00129	0.00132	0.00135
	GN	**-**	0.00005	0.00006	0.00010
	GN	**-**	-0.00006	-0.00005	-0.00003
	GN	**-**	0.00252	0.00255	0.00259
	RN	**(D * GN)**	0.00010	0.00011	0.00011
	RN	**(D * GN)**	0.00002	0.00002	0.00004
	RN	**(D * GN)**	-0.00004	-0.00003	-0.00003
	RN	**(D * GN)**	0.00058	0.00060	0.00081
	SN	**(D * GN * !RN)**	0.00195	0.00199	0.00202
	SN	**(D * GN * !RN)**	0.00009	0.00010	0.00011
	SN	**(D * GN * !RN)**	-0.00009	-0.00007	-0.00005
	SN	**(D * GN * !RN)**	0.00253	0.00256	0.00259
	SN	**(D * !GN * RN)**	0.00108	0.00110	0.00113
	SN	**(D * !GN * RN)**	-0.00002	-0.00002	-0.00001
	SN	**(D * !GN * RN)**	-0.00001	-0.00001	0.00001
	SN	**(D * !GN * RN)**	0.00040	0.00042	0.00054
	SN	**(D * !GN * !RN)**	0.00196	0.00200	0.00204
	SN	**(D * !GN * !RN)**	0.00011	0.00013	0.00014
	SN	**(D * !GN * !RN)**	-0.00011	-0.00011	-0.00009
	SN	**(D * !GN * !RN)**	0.00292	0.00296	0.00299
	SN	**(!D * GN * RN)**	0.00192	0.00195	0.00198
	SN	**(!D * GN * RN)**	0.00005	0.00006	0.00006
	SN	**(!D * GN * RN)**	-0.00005	-0.00005	-0.00004
	SN	**(!D * GN * RN)**	0.00201	0.00205	0.00209
	SN	**(!D * GN * !RN)**	0.00194	0.00198	0.00201
	SN	**(!D * GN * !RN)**	0.00011	0.00012	0.00013
	SN	**(!D * GN * !RN)**	-0.00007	-0.00006	-0.00005
	SN	**(!D * GN * !RN)**	0.00244	0.00247	0.00251
	SN	**(!D * !GN * RN)**	0.00194	0.00199	0.00202
	SN	**(!D * !GN * RN)**	0.00011	0.00013	0.00014
	SN	**(!D * !GN * RN)**	-0.00008	-0.00006	-0.00006
	SN	**(!D * !GN * RN)**	0.00261	0.00265	0.00268
	SN	**(!D * !GN * !RN)**	0.00194	0.00197	0.00200
	SN	**(!D * !GN * !RN)**	0.00012	0.00013	0.00014
	SN	**(!D * !GN * !RN)**	-0.00005	-0.00005	-0.00003
	SN	**(!D * !GN * !RN)**	0.00256	0.00260	0.00263

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

LATLSRX0P5H7H	**(GN * RN * SN)**	-0.00009	-0.00006	-0.00002
	(GN * RN * SN)	0.00009	0.00009	0.00010
	(GN * RN * SN)	-0.00008	-0.00007	-0.00007
	(GN * RN * SN)	0.00136	0.00138	0.00142
	(GN * RN * !SN)	-0.00001	-0.00001	-0.00001
	(GN * RN * !SN)	-0.00004	-0.00004	-0.00004
	(GN * RN * !SN)	0.00001	0.00001	0.00002
	(GN * RN * !SN)	0.00027	0.00027	0.00027
	(GN * !RN * SN)	-0.00021	-0.00016	-0.00012
	(GN * !RN * SN)	-0.00002	-0.00001	0.00000
	(GN * !RN * SN)	0.00003	0.00004	0.00004
	(GN * !RN * SN)	0.00002	0.00002	0.00002
	(GN * !RN * !SN)	-0.00001	-0.00001	-0.00001
	(GN * !RN * !SN)	-0.00005	-0.00005	-0.00004
	(GN * !RN * !SN)	0.00002	0.00002	0.00002
	(GN * !RN * !SN)	0.00023	0.00024	0.00024
	(!GN * RN * SN)	0.00257	0.00263	0.00272
	(!GN * RN * SN)	0.00006	0.00015	0.00023
	(!GN * RN * SN)	-0.00022	-0.00013	0.00000
	(!GN * RN * SN)	0.00470	0.00476	0.00488
	(!GN * RN * !SN)	-0.00001	-0.00001	-0.00001
	(!GN * RN * !SN)	-0.00004	-0.00004	-0.00004
	(!GN * RN * !SN)	-0.00000	0.00001	0.00002
	(!GN * RN * !SN)	0.00033	0.00033	0.00033
	(!GN * !RN * SN)	-0.00029	-0.00029	-0.00029
	(!GN * !RN * SN)	-0.00003	-0.00002	-0.00001
	(!GN * !RN * SN)	0.00003	0.00003	0.00003
	(!GN * !RN * SN)	0.00001	0.00001	0.00001
	(!GN * !RN * !SN)	-0.00002	-0.00002	-0.00002
	(!GN * !RN * !SN)	-0.00004	-0.00004	-0.00003
	(!GN * !RN * !SN)	0.00002	0.00002	0.00003
	(!GN * !RN * !SN)	0.00027	0.00027	0.00027

Passive power(pJ) for D falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

LATLSRX0P5H7H	**(GN * RN * SN)**	0.00135	0.00138	0.00144
	(GN * RN * SN)	-0.00009	-0.00009	-0.00008
	(GN * RN * SN)	0.00007	0.00007	0.00008
	(GN * RN * SN)	-0.00010	-0.00006	-0.00001
	(GN * RN * !SN)	0.00001	0.00002	0.00002
	(GN * RN * !SN)	0.00005	0.00005	0.00006
	(GN * RN * !SN)	-0.00002	-0.00001	-0.00001
	(GN * RN * !SN)	-0.00025	-0.00021	-0.00016
	(GN * !RN * SN)	0.00037	0.00037	0.00037
	(GN * !RN * SN)	0.00000	0.00001	0.00002
	(GN * !RN * SN)	-0.00003	-0.00002	-0.00002
	(GN * !RN * SN)	-0.00000	-0.00000	0.00000
	(GN * !RN * !SN)	0.00001	0.00002	0.00002
	(GN * !RN * !SN)	0.00004	0.00005	0.00005
	(GN * !RN * !SN)	-0.00002	-0.00002	-0.00001
	(GN * !RN * !SN)	-0.00024	-0.00020	-0.00015
	(!GN * RN * SN)	0.00464	0.00467	0.00469
	(!GN * RN * SN)	-0.00022	-0.00014	-0.00006
	(!GN * RN * SN)	0.00000	0.00015	0.00027
	(!GN * RN * SN)	0.00249	0.00258	0.00267
	(!GN * RN * !SN)	0.00001	0.00001	0.00001
	(!GN * RN * !SN)	0.00004	0.00004	0.00004
	(!GN * RN * !SN)	-0.00001	-0.00000	0.00000
	(!GN * RN * !SN)	-0.00033	-0.00033	-0.00032
	(!GN * !RN * SN)	0.00029	0.00029	0.00029
	(!GN * !RN * SN)	0.00002	0.00002	0.00003
	(!GN * !RN * SN)	-0.00003	-0.00003	-0.00002
	(!GN * !RN * SN)	-0.00001	-0.00001	-0.00001
	(!GN * !RN * !SN)	0.00002	0.00002	0.00003
	(!GN * !RN * !SN)	0.00003	0.00004	0.00004
	(!GN * !RN * !SN)	-0.00003	-0.00002	-0.00002
	(!GN * !RN * !SN)	-0.00027	-0.00024	-0.00021

Passive power(pJ) for GN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

LATLSRX0P5H7H	**(D * RN * SN)**	0.00117	0.00119	0.00121
	(D * RN * SN)	0.00000	0.00000	0.00001
	(D * RN * SN)	-0.00001	0.00000	0.00001
	(D * RN * SN)	0.00212	0.00214	0.00217
	(D * RN * !SN)	0.00117	0.00119	0.00122
	(D * RN * !SN)	0.00000	0.00000	0.00000
	(D * RN * !SN)	-0.00000	-0.00000	0.00000
	(D * RN * !SN)	0.00212	0.00215	0.00217
	(D * !RN * SN)	0.00124	0.00127	0.00130
	(D * !RN * SN)	-0.00001	-0.00000	-0.00000
	(D * !RN * SN)	0.00001	0.00001	0.00002
	(D * !RN * SN)	0.00214	0.00216	0.00218
	(D * !RN * !SN)	0.00117	0.00119	0.00122
	(D * !RN * !SN)	0.00000	0.00000	0.00001
	(D * !RN * !SN)	-0.00000	-0.00000	0.00001
	(D * !RN * !SN)	0.00212	0.00214	0.00216
	(!D * RN * SN)	0.00122	0.00124	0.00127
	(!D * RN * SN)	-0.00001	-0.00001	-0.00000
	(!D * RN * SN)	0.00001	0.00001	0.00001
	(!D * RN * SN)	0.00214	0.00216	0.00219
	(!D * RN * !SN)	0.00117	0.00119	0.00122
	(!D * RN * !SN)	0.00000	0.00001	0.00001
	(!D * RN * !SN)	-0.00001	-0.00000	0.00000
	(!D * RN * !SN)	0.00213	0.00217	0.00221
	(!D * !RN * SN)	0.00122	0.00124	0.00126
	(!D * !RN * SN)	-0.00000	-0.00000	0.00000
	(!D * !RN * SN)	0.00001	0.00001	0.00002
	(!D * !RN * SN)	0.00214	0.00216	0.00219
	(!D * !RN * !SN)	0.00116	0.00118	0.00121
	(!D * !RN * !SN)	0.00000	0.00001	0.00001
	(!D * !RN * !SN)	0.00000	0.00001	0.00001
	(!D * !RN * !SN)	0.00209	0.00213	0.00217

Passive power(pJ) for GN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

LATLSRX0P5H7H	**(D * RN * SN)**	0.00214	0.00216	0.00219
	(D * RN * SN)	-0.00000	-0.00000	0.00000
	(D * RN * SN)	-0.00000	0.00000	0.00001
	(D * RN * SN)	0.00119	0.00121	0.00123
	(D * RN * !SN)	0.00214	0.00216	0.00219
	(D * RN * !SN)	-0.00000	-0.00000	-0.00000
	(D * RN * !SN)	-0.00000	0.00000	0.00001
	(D * RN * !SN)	0.00119	0.00121	0.00124
	(D * !RN * SN)	0.00206	0.00209	0.00212
	(D * !RN * SN)	0.00000	0.00000	0.00001
	(D * !RN * SN)	-0.00001	-0.00001	-0.00001
	(D * !RN * SN)	0.00115	0.00117	0.00120
	(D * !RN * !SN)	0.00214	0.00216	0.00219
	(D * !RN * !SN)	-0.00000	-0.00000	0.00000
	(D * !RN * !SN)	0.00000	0.00000	0.00001
	(D * !RN * !SN)	0.00119	0.00121	0.00123
	(!D * RN * SN)	0.00207	0.00209	0.00210
	(!D * RN * SN)	0.00000	0.00001	0.00002
	(!D * RN * SN)	-0.00001	-0.00001	-0.00001
	(!D * RN * SN)	0.00115	0.00117	0.00119
	(!D * RN * !SN)	0.00214	0.00216	0.00219
	(!D * RN * !SN)	-0.00001	-0.00000	-0.00000
	(!D * RN * !SN)	0.00000	0.00000	0.00001
	(!D * RN * !SN)	0.00119	0.00121	0.00124
	(!D * !RN * SN)	0.00207	0.00209	0.00212
	(!D * !RN * SN)	-0.00000	0.00000	0.00001
	(!D * !RN * SN)	-0.00001	-0.00001	-0.00000
	(!D * !RN * SN)	0.00115	0.00117	0.00120
	(!D * !RN * !SN)	0.00214	0.00217	0.00219
	(!D * !RN * !SN)	-0.00001	-0.00000	0.00000
	(!D * !RN * !SN)	-0.00001	-0.00000	0.00000
	(!D * !RN * !SN)	0.00121	0.00123	0.00126

Passive power(pJ) for RN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

LATLSRX0P5H7H	**(D * GN * SN)**	-0.00011	-0.00011	-0.00011
	(D * GN * SN)	-0.00001	-0.00001	-0.00000
	(D * GN * SN)	0.00001	0.00001	0.00002
	(D * GN * SN)	0.00014	0.00014	0.00014
	(D * GN * !SN)	-0.00000	-0.00000	-0.00000
	(D * GN * !SN)	-0.00002	-0.00002	-0.00002
	(D * GN * !SN)	0.00001	0.00001	0.00001
	(D * GN * !SN)	0.00022	0.00022	0.00022
	(D * !GN * SN)	0.00255	0.00266	0.00274
	(D * !GN * SN)	0.00005	0.00017	0.00029
	(D * !GN * SN)	-0.00031	-0.00021	-0.00006
	(D * !GN * SN)	0.00520	0.00524	0.00529
	(D * !GN * !SN)	-0.00000	-0.00000	-0.00000
	(D * !GN * !SN)	-0.00002	-0.00002	-0.00002
	(D * !GN * !SN)	-0.00000	0.00001	0.00001
	(D * !GN * !SN)	0.00022	0.00022	0.00022
	(!D * GN * SN)	-0.00011	-0.00011	-0.00011
	(!D * GN * SN)	-0.00001	-0.00001	-0.00000
	(!D * GN * SN)	0.00001	0.00001	0.00001
	(!D * GN * SN)	0.00014	0.00015	0.00015
	(!D * GN * !SN)	-0.00000	-0.00000	-0.00000
	(!D * GN * !SN)	-0.00002	-0.00002	-0.00002
	(!D * GN * !SN)	0.00001	0.00001	0.00001
	(!D * GN * !SN)	0.00022	0.00022	0.00022
	(!D * !GN * SN)	-0.00011	-0.00011	-0.00011
	(!D * !GN * SN)	-0.00001	-0.00001	0.00000
	(!D * !GN * SN)	0.00001	0.00001	0.00001
	(!D * !GN * SN)	0.00014	0.00015	0.00015
	(!D * !GN * !SN)	-0.00001	-0.00001	-0.00001
	(!D * !GN * !SN)	-0.00002	-0.00002	-0.00002
	(!D * !GN * !SN)	0.00001	0.00001	0.00001
	(!D * !GN * !SN)	0.00018	0.00018	0.00018

Passive power(pJ) for RN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

LATLSRX0P5H7H	**(D * GN * SN)**	0.00011	0.00011	0.00011
	(D * GN * SN)	0.00000	0.00001	0.00001
	(D * GN * SN)	-0.00002	-0.00001	-0.00001
	(D * GN * SN)	-0.00014	-0.00013	-0.00011
	(D * GN * !SN)	0.00000	0.00001	0.00001
	(D * GN * !SN)	0.00002	0.00002	0.00002
	(D * GN * !SN)	-0.00001	-0.00001	-0.00000
	(D * GN * !SN)	-0.00022	-0.00021	-0.00021
	(D * !GN * SN)	0.00525	0.00527	0.00530
	(D * !GN * SN)	-0.00021	-0.00015	-0.00005
	(D * !GN * SN)	0.00006	0.00027	0.00040
	(D * !GN * SN)	0.00266	0.00273	0.00284
	(D * !GN * !SN)	0.00000	0.00001	0.00001
	(D * !GN * !SN)	0.00002	0.00002	0.00002
	(D * !GN * !SN)	-0.00001	-0.00000	0.00001
	(D * !GN * !SN)	-0.00022	-0.00021	-0.00021
	(!D * GN * SN)	0.00011	0.00011	0.00011
	(!D * GN * SN)	0.00001	0.00001	0.00001
	(!D * GN * SN)	-0.00001	-0.00001	-0.00001
	(!D * GN * SN)	-0.00015	-0.00013	-0.00011
	(!D * GN * !SN)	0.00000	0.00000	0.00001
	(!D * GN * !SN)	0.00002	0.00002	0.00003
	(!D * GN * !SN)	-0.00001	-0.00001	-0.00001
	(!D * GN * !SN)	-0.00022	-0.00022	-0.00022
	(!D * !GN * SN)	0.00011	0.00011	0.00011
	(!D * !GN * SN)	0.00001	0.00001	0.00002
	(!D * !GN * SN)	-0.00001	-0.00001	-0.00001
	(!D * !GN * SN)	-0.00015	-0.00013	-0.00011
	(!D * !GN * !SN)	0.00001	0.00001	0.00002
	(!D * !GN * !SN)	0.00002	0.00002	0.00002
	(!D * !GN * !SN)	-0.00001	-0.00001	-0.00001
	(!D * !GN * !SN)	-0.00018	-0.00017	-0.00014

Passive power(pJ) for SN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

LATLSRX0P5H7H	**(D * GN * RN)**	0.00001	0.00002	0.00005
	(D * GN * RN)	0.00005	0.00006	0.00006
	(D * GN * RN)	-0.00003	-0.00003	-0.00003
	(D * GN * RN)	0.00093	0.00095	0.00098
	(D * GN * !RN)	0.00484	0.00495	0.00510
	(D * GN * !RN)	-0.00023	-0.00018	-0.00011
	(D * GN * !RN)	0.00002	0.00013	0.00030
	(D * GN * !RN)	0.00382	0.00388	0.00394
	(D * !GN * RN)	0.00001	0.00003	0.00005
	(D * !GN * RN)	0.00005	0.00006	0.00006
	(D * !GN * RN)	-0.00003	-0.00003	-0.00003
	(D * !GN * RN)	0.00093	0.00095	0.00098
	(D * !GN * !RN)	0.00577	0.00587	0.00593
	(D * !GN * !RN)	-0.00027	-0.00019	-0.00004
	(D * !GN * !RN)	0.00011	0.00030	0.00045
	(D * !GN * !RN)	0.00381	0.00388	0.00395
	(!D * GN * RN)	-0.00000	0.00002	0.00004
	(!D * GN * RN)	0.00005	0.00005	0.00006
	(!D * GN * RN)	-0.00003	-0.00003	-0.00003
	(!D * GN * RN)	0.00093	0.00095	0.00098
	(!D * GN * !RN)	0.00548	0.00556	0.00577
	(!D * GN * !RN)	-0.00034	-0.00027	-0.00018
	(!D * GN * !RN)	0.00002	0.00022	0.00036
	(!D * GN * !RN)	0.00384	0.00395	0.00408
	(!D * !GN * RN)	0.00520	0.00526	0.00539
	(!D * !GN * RN)	-0.00035	-0.00026	-0.00014
	(!D * !GN * RN)	-0.00001	0.00017	0.00026
	(!D * !GN * RN)	0.00366	0.00373	0.00380
	(!D * !GN * !RN)	0.00519	0.00526	0.00531
	(!D * !GN * !RN)	-0.00028	-0.00024	-0.00019
	(!D * !GN * !RN)	0.00002	0.00009	0.00013
	(!D * !GN * !RN)	0.00378	0.00389	0.00397

Passive power(pJ) for SN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

LATLSRX0P5H7H	**(D * GN * RN)**	0.00096	0.00098	0.00101
	(D * GN * RN)	-0.00006	-0.00006	-0.00005
	(D * GN * RN)	0.00003	0.00003	0.00003
	(D * GN * RN)	0.00003	0.00005	0.00008
	(D * GN * !RN)	0.00384	0.00394	0.00411
	(D * GN * !RN)	0.00013	0.00022	0.00031
	(D * GN * !RN)	-0.00014	-0.00004	0.00012
	(D * GN * !RN)	0.00499	0.00516	0.00528
	(D * !GN * RN)	0.00096	0.00098	0.00101
	(D * !GN * RN)	-0.00006	-0.00006	-0.00005
	(D * !GN * RN)	0.00003	0.00003	0.00003
	(D * !GN * RN)	0.00003	0.00005	0.00008
	(D * !GN * !RN)	0.00393	0.00400	0.00412
	(D * !GN * !RN)	0.00005	0.00022	0.00034
	(D * !GN * !RN)	-0.00040	-0.00023	-0.00010
	(D * !GN * !RN)	0.00580	0.00597	0.00614
	(!D * GN * RN)	0.00097	0.00099	0.00102
	(!D * GN * RN)	-0.00006	-0.00005	-0.00005
	(!D * GN * RN)	0.00003	0.00003	0.00003
	(!D * GN * RN)	0.00003	0.00005	0.00008
	(!D * GN * !RN)	0.00378	0.00390	0.00402
	(!D * GN * !RN)	0.00021	0.00030	0.00037
	(!D * GN * !RN)	-0.00030	-0.00014	-0.00002
	(!D * GN * !RN)	0.00509	0.00517	0.00530
	(!D * !GN * RN)	0.00381	0.00394	0.00411
	(!D * !GN * RN)	0.00014	0.00026	0.00036
	(!D * !GN * RN)	-0.00019	-0.00007	0.00016
	(!D * !GN * RN)	0.00523	0.00532	0.00552
	(!D * !GN * !RN)	0.00368	0.00384	0.00391
	(!D * !GN * !RN)	0.00019	0.00033	0.00052
	(!D * !GN * !RN)	-0.00013	-0.00007	0.00002
	(!D * !GN * !RN)	0.00514	0.00525	0.00538

LATLSRX1H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Low Enable Latch with Clear and Set
Q = !SN ? 1 : !RN ? 0 : !EN ? D : pre_Q
QN = !Q

Truth Table

INPUT				OUTPUT	
D	GN	RN	SN	Q	QN
x	x	x	x	-	-

Footprint

Cell Name	Area
LATLSRX1H7H	9.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)	
	D	GN	RN	SN	Q	QN
LATLSRX1H7H	0.00148	0.00089	0.00086	0.00085	0.04997	0.05012

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
LATLSRX1H7H	0.00000	0.07921	0.10437

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLSRX1H7H	D->Q (RR)	-	0.13998	0.33265	0.79083
	GN->Q (RR)	-	-0.46748	-0.01367	0.41223
	RN->Q (RR)	(D * GN)	-0.46750	-0.01290	0.41370
	SN->Q (FR)	(D * !GN * RN)	-0.46748	-0.01270	0.41395
	SN->Q (FR)	(!D * !GN * RN)	0.11167	0.29184	0.70275
	SN->Q (FR)	(D * GN * !RN)	0.10459	0.28251	0.69827
	SN->Q (FR)	(D * !GN * !RN)	0.11452	0.29920	0.71457
	SN->Q (FR)	(!D * GN * !RN)	0.10999	0.28615	0.69710
	SN->Q (FR)	(!D * !GN * !RN)	0.11527	0.29414	0.70455
	SN->Q (FR)	(!D * GN * RN)	0.10265	0.27594	0.68343

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLSRX1H7H	D->Q (FF)	-	0.18508	0.36929	0.79105
	GN->Q (RF)	-	-0.46966	-0.04145	0.31698
	RN->Q (FF)	(D * !GN)	0.19779	0.40680	0.88031
	RN->Q (FF)	(!D * !GN)	-0.46966	-0.04187	0.31281
	RN->Q (FF)	(D * GN)	0.18506	0.37692	0.82563
	SN->Q (RF)	(D * GN * !RN)	0.22103	0.38421	0.71746
	SN->Q (RF)	(D * !GN * !RN)	0.23369	0.41377	0.76748
	SN->Q (RF)	(!D * GN * !RN)	0.22354	0.38716	0.72284
	SN->Q (RF)	(!D * !GN * !RN)	0.17819	0.33376	0.66545

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLSRX1H7H	D->QN (FR)	-	0.25463	0.43345	0.89576
	GN->QN (RR)	-	-0.46748	-0.01280	0.41471
	RN->QN (FR)	(D * !GN)	0.27685	0.46772	0.96871
	RN->QN (FR)	(!D * !GN)	-0.46748	-0.01289	0.41430
	RN->QN (FR)	(D * GN)	0.25634	0.44521	0.94379
	SN->QN (RR)	(D * GN * !RN)	0.29238	0.45247	0.83987
	SN->QN (RR)	(D * !GN * !RN)	0.31278	0.47478	0.86264
	SN->QN (RR)	(!D * GN * !RN)	0.29411	0.45471	0.84356
	SN->QN (RR)	(!D * !GN * !RN)	0.23795	0.39954	0.78988

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLSRX1H7H	D->QN (RF)	-	0.20289	0.35299	0.72210
	GN->QN (RF)	-	-0.46965	-0.04252	0.31129
	RN->QN (RF)	(D * GN)	-0.46965	-0.04257	0.31101
	SN->QN (FF)	(D * !GN * RN)	-0.46965	-0.04258	0.31098
	SN->QN (FF)	(!D * !GN * RN)	0.17160	0.31394	0.64602
	SN->QN (FF)	(D * GN * !RN)	0.15804	0.30061	0.63320
	SN->QN (FF)	(D * !GN * !RN)	0.17747	0.32101	0.65382
	SN->QN (FF)	(!D * GN * !RN)	0.16494	0.30730	0.64034
	SN->QN (FF)	(!D * !GN * !RN)	0.17304	0.31513	0.64739
	SN->QN (FF)	(!D * GN * RN)	0.15648	0.29851	0.63089

Constraint Information

Min Pulse Width (ns) for GN:

Cell Name	High	Low
LATLSRX1H7H	0.9851	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

LATLSRX1H7H	**D**	**-**	0.00135	0.00139	0.00143
	D	**-**	0.00006	0.00008	0.00008
	D	**-**	-0.00008	-0.00007	-0.00006
	D	**-**	0.00241	0.00245	0.00249
	GN	**-**	0.00159	0.00161	0.00166
	GN	**-**	-0.00005	-0.00004	-0.00003
	GN	**-**	0.00000	0.00004	0.00006
	GN	**-**	0.00228	0.00231	0.00236
	RN	**(D * GN)**	0.00040	0.00042	0.00062
	RN	**(D * GN)**	0.00000	0.00000	0.00000
	RN	**(D * GN)**	0.00002	0.00004	0.00006
	RN	**(D * GN)**	0.00034	0.00035	0.00035
	SN	**(D * GN * !RN)**	0.00199	0.00204	0.00208
	SN	**(D * GN * !RN)**	0.00010	0.00011	0.00013
	SN	**(D * GN * !RN)**	-0.00008	-0.00007	-0.00005
	SN	**(D * GN * !RN)**	0.00258	0.00262	0.00266
	SN	**(D * !GN * RN)**	0.00137	0.00140	0.00151
	SN	**(D * !GN * RN)**	-0.00013	-0.00012	-0.00011
	SN	**(D * !GN * RN)**	0.00007	0.00007	0.00008
	SN	**(D * !GN * RN)**	0.00016	0.00018	0.00021
	SN	**(D * !GN * !RN)**	0.00203	0.00206	0.00210
	SN	**(D * !GN * !RN)**	0.00011	0.00013	0.00013
	SN	**(D * !GN * !RN)**	-0.00011	-0.00010	-0.00009
	SN	**(D * !GN * !RN)**	0.00297	0.00302	0.00306
	SN	**(!D * GN * RN)**	0.00197	0.00201	0.00205
	SN	**(!D * GN * RN)**	0.00004	0.00006	0.00006
	SN	**(!D * GN * RN)**	-0.00006	-0.00005	-0.00003
	SN	**(!D * GN * RN)**	0.00206	0.00211	0.00216
	SN	**(!D * GN * !RN)**	0.00200	0.00204	0.00207
	SN	**(!D * GN * !RN)**	0.00010	0.00012	0.00013
	SN	**(!D * GN * !RN)**	-0.00007	-0.00006	-0.00004
	SN	**(!D * GN * !RN)**	0.00249	0.00254	0.00258
	SN	**(!D * !GN * RN)**	0.00200	0.00204	0.00208
	SN	**(!D * !GN * RN)**	0.00011	0.00013	0.00015
	SN	**(!D * !GN * RN)**	-0.00007	-0.00006	-0.00005
	SN	**(!D * !GN * RN)**	0.00267	0.00271	0.00275
	SN	**(!D * !GN * !RN)**	0.00199	0.00203	0.00207
	SN	**(!D * !GN * !RN)**	0.00012	0.00013	0.00013
	SN	**(!D * !GN * !RN)**	-0.00005	-0.00005	-0.00004
	SN	**(!D * !GN * !RN)**	0.00262	0.00266	0.00270

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

LATLSRX1H7H	**D**	**-**	0.00237	0.00240	0.00244
	D	**-**	-0.00008	-0.00008	-0.00006
	D	**-**	0.00006	0.00007	0.00008
	D	**-**	0.00131	0.00134	0.00138
	GN	**-**	0.00140	0.00143	0.00145
	GN	**-**	0.00003	0.00005	0.00005
	GN	**-**	-0.00002	-0.00002	-0.00000
	GN	**-**	0.00256	0.00259	0.00267
	RN	**(D * GN)**	0.00220	0.00223	0.00227
	RN	**(D * GN)**	0.00000	0.00000	0.00000
	RN	**(D * GN)**	0.00007	0.00008	0.00010
	RN	**(D * GN)**	0.00140	0.00144	0.00147
	RN	**(D * !GN)**	0.00263	0.00267	0.00271
	RN	**(D * !GN)**	-0.00009	-0.00009	-0.00009
	RN	**(D * !GN)**	0.00011	0.00012	0.00014
	RN	**(D * !GN)**	0.00139	0.00143	0.00147
	RN	**(!D * !GN)**	0.00024	0.00024	0.00025
	RN	**(!D * !GN)**	0.00005	0.00006	0.00008
	RN	**(!D * !GN)**	-0.00007	-0.00006	-0.00005
	RN	**(!D * !GN)**	0.00026	0.00029	0.00041
	SN	**(D * GN * !RN)**	0.00252	0.00255	0.00259
	SN	**(D * GN * !RN)**	-0.00012	-0.00010	-0.00010
	SN	**(D * GN * !RN)**	0.00005	0.00007	0.00008
	SN	**(D * GN * !RN)**	0.00200	0.00203	0.00207
	SN	**(D * !GN * !RN)**	0.00296	0.00299	0.00303
	SN	**(D * !GN * !RN)**	-0.00013	-0.00013	-0.00011
	SN	**(D * !GN * !RN)**	0.00009	0.00010	0.00011
	SN	**(D * !GN * !RN)**	0.00199	0.00203	0.00206
	SN	**(!D * GN * !RN)**	0.00281	0.00285	0.00289
	SN	**(!D * GN * !RN)**	-0.00013	-0.00012	-0.00010
	SN	**(!D * GN * !RN)**	0.00007	0.00008	0.00010
	SN	**(!D * GN * !RN)**	0.00202	0.00205	0.00209
	SN	**(!D * !GN * !RN)**	0.00267	0.00271	0.00275
	SN	**(!D * !GN * !RN)**	-0.00013	-0.00013	-0.00012
	SN	**(!D * !GN * !RN)**	0.00004	0.00005	0.00005
	SN	**(!D * !GN * !RN)**	0.00198	0.00201	0.00205

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

LATLSRX1H7H	**D**	**-**	0.00237	0.00240	0.00244
	D	**-**	-0.00008	-0.00008	-0.00007
	D	**-**	0.00007	0.00007	0.00008
	D	**-**	0.00130	0.00134	0.00138
	GN	**-**	0.00167	0.00170	0.00178
	GN	**-**	-0.00007	-0.00007	-0.00002
	GN	**-**	0.00003	0.00006	0.00008
	GN	**-**	0.00228	0.00231	0.00236
	RN	**(D * GN)**	0.00220	0.00223	0.00227
	RN	**(D * GN)**	-0.00003	-0.00003	-0.00003
	RN	**(D * GN)**	0.00006	0.00008	0.00010
	RN	**(D * GN)**	0.00140	0.00144	0.00147
	RN	**(D * !GN)**	0.00264	0.00267	0.00271
	RN	**(D * !GN)**	-0.00009	-0.00009	-0.00009
	RN	**(D * !GN)**	0.00012	0.00012	0.00013
	RN	**(D * !GN)**	0.00139	0.00143	0.00147
	RN	**(!D * !GN)**	0.00051	0.00052	0.00068
	RN	**(!D * !GN)**	-0.00006	-0.00005	-0.00003
	RN	**(!D * !GN)**	-0.00002	0.00002	0.00003
	RN	**(!D * !GN)**	-0.00002	0.00000	0.00004
	SN	**(D * GN * !RN)**	0.00252	0.00255	0.00259
	SN	**(D * GN * !RN)**	-0.00011	-0.00010	-0.00009
	SN	**(D * GN * !RN)**	0.00005	0.00007	0.00007
	SN	**(D * GN * !RN)**	0.00200	0.00203	0.00207
	SN	**(D * !GN * !RN)**	0.00296	0.00300	0.00303
	SN	**(D * !GN * !RN)**	-0.00014	-0.00013	-0.00011
	SN	**(D * !GN * !RN)**	0.00009	0.00011	0.00012
	SN	**(D * !GN * !RN)**	0.00199	0.00202	0.00206
	SN	**(!D * GN * !RN)**	0.00281	0.00285	0.00289
	SN	**(!D * GN * !RN)**	-0.00012	-0.00012	-0.00010
	SN	**(!D * GN * !RN)**	0.00008	0.00009	0.00010
	SN	**(!D * GN * !RN)**	0.00202	0.00205	0.00209
	SN	**(!D * !GN * !RN)**	0.00268	0.00271	0.00275
	SN	**(!D * !GN * !RN)**	-0.00015	-0.00013	-0.00012
	SN	**(!D * !GN * !RN)**	0.00005	0.00005	0.00005
	SN	**(!D * !GN * !RN)**	0.00198	0.00201	0.00205

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

LATLSRX1H7H	**D**	**-**	0.00135	0.00139	0.00142
	D	**-**	0.00007	0.00008	0.00008
	D	**-**	-0.00008	-0.00007	-0.00007
	D	**-**	0.00241	0.00245	0.00249
	GN	**-**	0.00132	0.00134	0.00142
	GN	**-**	0.00002	0.00007	0.00008
	GN	**-**	-0.00006	-0.00005	-0.00001
	GN	**-**	0.00259	0.00263	0.00268
	RN	**(D * GN)**	0.00013	0.00013	0.00013
	RN	**(D * GN)**	0.00003	0.00003	0.00003
	RN	**(D * GN)**	-0.00005	-0.00004	-0.00004
	RN	**(D * GN)**	0.00062	0.00064	0.00088
	SN	**(D * GN * !RN)**	0.00200	0.00204	0.00208
	SN	**(D * GN * !RN)**	0.00009	0.00010	0.00011
	SN	**(D * GN * !RN)**	-0.00007	-0.00007	-0.00005
	SN	**(D * GN * !RN)**	0.00258	0.00262	0.00266
	SN	**(D * !GN * RN)**	0.00110	0.00112	0.00114
	SN	**(D * !GN * RN)**	-0.00002	-0.00001	0.00000
	SN	**(D * !GN * RN)**	-0.00002	-0.00002	-0.00001
	SN	**(D * !GN * RN)**	0.00043	0.00046	0.00058
	SN	**(D * !GN * !RN)**	0.00202	0.00206	0.00210
	SN	**(D * !GN * !RN)**	0.00011	0.00013	0.00014
	SN	**(D * !GN * !RN)**	-0.00012	-0.00011	-0.00009
	SN	**(D * !GN * !RN)**	0.00298	0.00302	0.00306
	SN	**(!D * GN * RN)**	0.00196	0.00201	0.00204
	SN	**(!D * GN * RN)**	0.00004	0.00006	0.00006
	SN	**(!D * GN * RN)**	-0.00005	-0.00005	-0.00004
	SN	**(!D * GN * RN)**	0.00207	0.00211	0.00215
	SN	**(!D * GN * !RN)**	0.00200	0.00204	0.00208
	SN	**(!D * GN * !RN)**	0.00010	0.00012	0.00012
	SN	**(!D * GN * !RN)**	-0.00008	-0.00006	-0.00005
	SN	**(!D * GN * !RN)**	0.00249	0.00253	0.00257
	SN	**(!D * !GN * RN)**	0.00201	0.00204	0.00208
	SN	**(!D * !GN * RN)**	0.00012	0.00013	0.00014
	SN	**(!D * !GN * RN)**	-0.00008	-0.00006	-0.00005
	SN	**(!D * !GN * RN)**	0.00266	0.00271	0.00274
	SN	**(!D * !GN * !RN)**	0.00199	0.00203	0.00206
	SN	**(!D * !GN * !RN)**	0.00012	0.00013	0.00015
	SN	**(!D * !GN * !RN)**	-0.00005	-0.00005	-0.00004
	SN	**(!D * !GN * !RN)**	0.00261	0.00265	0.00269

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

LATLSRX1H7H	**(GN * RN * SN)**	-0.00009	-0.00006	-0.00002
	(GN * RN * SN)	0.00009	0.00009	0.00009
	(GN * RN * SN)	-0.00008	-0.00007	-0.00007
	(GN * RN * SN)	0.00136	0.00138	0.00143
	(GN * RN * !SN)	-0.00001	-0.00001	-0.00001
	(GN * RN * !SN)	-0.00005	-0.00004	-0.00004
	(GN * RN * !SN)	0.00001	0.00001	0.00001
	(GN * RN * !SN)	0.00027	0.00027	0.00027
	(GN * !RN * SN)	-0.00021	-0.00016	-0.00012
	(GN * !RN * SN)	-0.00002	-0.00001	-0.00001
	(GN * !RN * SN)	0.00003	0.00004	0.00004
	(GN * !RN * SN)	0.00002	0.00002	0.00002
	(GN * !RN * !SN)	-0.00001	-0.00001	-0.00001
	(GN * !RN * !SN)	-0.00005	-0.00005	-0.00004
	(GN * !RN * !SN)	0.00002	0.00002	0.00002
	(GN * !RN * !SN)	0.00023	0.00024	0.00024
	(!GN * RN * SN)	0.00271	0.00273	0.00280
	(!GN * RN * SN)	0.00007	0.00014	0.00022
	(!GN * RN * SN)	-0.00021	-0.00012	0.00000
	(!GN * RN * SN)	0.00482	0.00485	0.00490
	(!GN * RN * !SN)	-0.00001	-0.00001	-0.00001
	(!GN * RN * !SN)	-0.00004	-0.00004	-0.00004
	(!GN * RN * !SN)	0.00000	0.00001	0.00002
	(!GN * RN * !SN)	0.00033	0.00033	0.00033
	(!GN * !RN * SN)	-0.00029	-0.00029	-0.00029
	(!GN * !RN * SN)	-0.00002	-0.00002	-0.00000
	(!GN * !RN * SN)	0.00002	0.00003	0.00003
	(!GN * !RN * SN)	0.00001	0.00001	0.00001
	(!GN * !RN * !SN)	-0.00002	-0.00002	-0.00002
	(!GN * !RN * !SN)	-0.00004	-0.00004	-0.00003
	(!GN * !RN * !SN)	0.00001	0.00002	0.00002
	(!GN * !RN * !SN)	0.00027	0.00027	0.00027

Passive power(pJ) for D falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

LATLSRX1H7H	**(GN * RN * SN)**	0.00135	0.00138	0.00144
	(GN * RN * SN)	-0.00009	-0.00009	-0.00007
	(GN * RN * SN)	0.00007	0.00008	0.00008
	(GN * RN * SN)	-0.00010	-0.00007	-0.00001
	(GN * RN * !SN)	0.00001	0.00002	0.00002
	(GN * RN * !SN)	0.00005	0.00005	0.00006
	(GN * RN * !SN)	-0.00001	-0.00001	-0.00001
	(GN * RN * !SN)	-0.00025	-0.00021	-0.00016
	(GN * !RN * SN)	0.00037	0.00037	0.00037
	(GN * !RN * SN)	0.00001	0.00001	0.00002
	(GN * !RN * SN)	-0.00003	-0.00003	-0.00002
	(GN * !RN * SN)	-0.00000	0.00000	0.00000
	(GN * !RN * !SN)	0.00001	0.00002	0.00002
	(GN * !RN * !SN)	0.00004	0.00005	0.00005
	(GN * !RN * !SN)	-0.00002	-0.00002	-0.00001
	(GN * !RN * !SN)	-0.00024	-0.00020	-0.00015
	(!GN * RN * SN)	0.00476	0.00478	0.00481
	(!GN * RN * SN)	-0.00019	-0.00014	-0.00007
	(!GN * RN * SN)	0.00000	0.00016	0.00028
	(!GN * RN * SN)	0.00259	0.00267	0.00274
	(!GN * RN * !SN)	0.00001	0.00001	0.00001
	(!GN * RN * !SN)	0.00004	0.00004	0.00004
	(!GN * RN * !SN)	-0.00002	-0.00001	0.00000
	(!GN * RN * !SN)	-0.00033	-0.00032	-0.00031
	(!GN * !RN * SN)	0.00029	0.00029	0.00029
	(!GN * !RN * SN)	0.00002	0.00002	0.00004
	(!GN * !RN * SN)	-0.00003	-0.00003	-0.00002
	(!GN * !RN * SN)	-0.00001	-0.00001	-0.00001
	(!GN * !RN * !SN)	0.00002	0.00002	0.00003
	(!GN * !RN * !SN)	0.00003	0.00004	0.00005
	(!GN * !RN * !SN)	-0.00002	-0.00002	-0.00001
	(!GN * !RN * !SN)	-0.00027	-0.00024	-0.00021

Passive power(pJ) for GN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

LATLSRX1H7H	**(D * RN * SN)**	0.00117	0.00119	0.00122
	(D * RN * SN)	0.00000	0.00000	0.00000
	(D * RN * SN)	-0.00001	0.00000	0.00001
	(D * RN * SN)	0.00212	0.00214	0.00217
	(D * RN * !SN)	0.00117	0.00119	0.00122
	(D * RN * !SN)	0.00000	0.00000	0.00000
	(D * RN * !SN)	-0.00000	-0.00000	0.00000
	(D * RN * !SN)	0.00212	0.00215	0.00217
	(D * !RN * SN)	0.00124	0.00127	0.00130
	(D * !RN * SN)	-0.00001	-0.00000	-0.00000
	(D * !RN * SN)	0.00001	0.00001	0.00002
	(D * !RN * SN)	0.00214	0.00216	0.00218
	(D * !RN * !SN)	0.00117	0.00119	0.00122
	(D * !RN * !SN)	-0.00000	0.00000	0.00001
	(D * !RN * !SN)	-0.00000	-0.00000	0.00001
	(D * !RN * !SN)	0.00212	0.00214	0.00216
	(!D * RN * SN)	0.00122	0.00124	0.00127
	(!D * RN * SN)	-0.00001	-0.00001	-0.00000
	(!D * RN * SN)	0.00001	0.00001	0.00001
	(!D * RN * SN)	0.00214	0.00216	0.00219
	(!D * RN * !SN)	0.00117	0.00119	0.00122
	(!D * RN * !SN)	0.00000	0.00001	0.00001
	(!D * RN * !SN)	-0.00000	-0.00000	0.00000
	(!D * RN * !SN)	0.00213	0.00217	0.00221
	(!D * !RN * SN)	0.00122	0.00124	0.00126
	(!D * !RN * SN)	-0.00001	-0.00000	0.00001
	(!D * !RN * SN)	0.00000	0.00001	0.00002
	(!D * !RN * SN)	0.00214	0.00216	0.00219
	(!D * !RN * !SN)	0.00116	0.00118	0.00121
	(!D * !RN * !SN)	0.00000	0.00001	0.00001
	(!D * !RN * !SN)	0.00000	0.00001	0.00001
	(!D * !RN * !SN)	0.00209	0.00213	0.00217

Passive power(pJ) for GN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

LATLSRX1H7H	**(D * RN * SN)**	0.00214	0.00216	0.00219
	(D * RN * SN)	-0.00000	-0.00000	0.00000
	(D * RN * SN)	-0.00000	0.00000	0.00001
	(D * RN * SN)	0.00119	0.00121	0.00123
	(D * RN * !SN)	0.00214	0.00216	0.00219
	(D * RN * !SN)	-0.00000	-0.00000	0.00000
	(D * RN * !SN)	-0.00000	0.00000	0.00001
	(D * RN * !SN)	0.00119	0.00121	0.00124
	(D * !RN * SN)	0.00206	0.00209	0.00212
	(D * !RN * SN)	0.00000	0.00001	0.00001
	(D * !RN * SN)	-0.00001	-0.00001	-0.00000
	(D * !RN * SN)	0.00115	0.00117	0.00120
	(D * !RN * !SN)	0.00214	0.00216	0.00219
	(D * !RN * !SN)	-0.00000	-0.00000	0.00000
	(D * !RN * !SN)	0.00000	0.00000	0.00001
	(D * !RN * !SN)	0.00119	0.00121	0.00123
	(!D * RN * SN)	0.00207	0.00209	0.00211
	(!D * RN * SN)	0.00000	0.00001	0.00001
	(!D * RN * SN)	-0.00001	-0.00001	-0.00001
	(!D * RN * SN)	0.00115	0.00117	0.00119
	(!D * RN * !SN)	0.00214	0.00216	0.00219
	(!D * RN * !SN)	-0.00001	-0.00000	0.00000
	(!D * RN * !SN)	0.00000	0.00000	0.00001
	(!D * RN * !SN)	0.00119	0.00121	0.00124
	(!D * !RN * SN)	0.00207	0.00209	0.00212
	(!D * !RN * SN)	-0.00000	0.00001	0.00001
	(!D * !RN * SN)	-0.00001	-0.00001	-0.00000
	(!D * !RN * SN)	0.00115	0.00117	0.00120
	(!D * !RN * !SN)	0.00214	0.00217	0.00219
	(!D * !RN * !SN)	-0.00001	-0.00000	0.00000
	(!D * !RN * !SN)	-0.00001	-0.00000	0.00000
	(!D * !RN * !SN)	0.00121	0.00123	0.00126

Passive power(pJ) for RN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

LATLSRX1H7H	**(D * GN * SN)**	-0.00011	-0.00011	-0.00011
	(D * GN * SN)	-0.00001	-0.00001	-0.00001
	(D * GN * SN)	0.00001	0.00001	0.00002
	(D * GN * SN)	0.00014	0.00014	0.00014
	(D * GN * !SN)	-0.00000	-0.00000	-0.00000
	(D * GN * !SN)	-0.00002	-0.00002	-0.00002
	(D * GN * !SN)	0.00001	0.00001	0.00001
	(D * GN * !SN)	0.00022	0.00022	0.00022
	(D * !GN * SN)	0.00276	0.00280	0.00289
	(D * !GN * SN)	0.00000	0.00012	0.00020
	(D * !GN * SN)	-0.00032	-0.00024	-0.00018
	(D * !GN * SN)	0.00534	0.00537	0.00543
	(D * !GN * !SN)	-0.00001	-0.00001	-0.00000
	(D * !GN * !SN)	-0.00002	-0.00002	-0.00002
	(D * !GN * !SN)	0.00000	0.00001	0.00001
	(D * !GN * !SN)	0.00022	0.00022	0.00022
	(!D * GN * SN)	-0.00011	-0.00011	-0.00011
	(!D * GN * SN)	-0.00001	-0.00001	-0.00001
	(!D * GN * SN)	0.00001	0.00001	0.00001
	(!D * GN * SN)	0.00014	0.00015	0.00015
	(!D * GN * !SN)	-0.00001	-0.00001	-0.00000
	(!D * GN * !SN)	-0.00002	-0.00002	-0.00002
	(!D * GN * !SN)	0.00001	0.00001	0.00001
	(!D * GN * !SN)	0.00022	0.00022	0.00022
	(!D * !GN * SN)	-0.00011	-0.00011	-0.00011
	(!D * !GN * SN)	-0.00001	-0.00001	-0.00001
	(!D * !GN * SN)	0.00001	0.00001	0.00001
	(!D * !GN * SN)	0.00014	0.00015	0.00015
	(!D * !GN * !SN)	-0.00001	-0.00001	-0.00001
	(!D * !GN * !SN)	-0.00002	-0.00002	-0.00002
	(!D * !GN * !SN)	0.00001	0.00001	0.00001
	(!D * !GN * !SN)	0.00018	0.00018	0.00018

Passive power(pJ) for RN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

LATLSRX1H7H	**(D * GN * SN)**	0.00011	0.00011	0.00011
	(D * GN * SN)	0.00001	0.00001	0.00001
	(D * GN * SN)	-0.00001	-0.00001	-0.00001
	(D * GN * SN)	-0.00014	-0.00013	-0.00011
	(D * GN * !SN)	0.00000	0.00001	0.00001
	(D * GN * !SN)	0.00002	0.00002	0.00002
	(D * GN * !SN)	-0.00001	-0.00001	-0.00000
	(D * GN * !SN)	-0.00022	-0.00021	-0.00021
	(D * !GN * SN)	0.00535	0.00538	0.00543
	(D * !GN * SN)	-0.00017	-0.00011	0.00000
	(D * !GN * SN)	0.00019	0.00030	0.00043
	(D * !GN * SN)	0.00273	0.00280	0.00288
	(D * !GN * !SN)	0.00000	0.00001	0.00001
	(D * !GN * !SN)	0.00002	0.00002	0.00002
	(D * !GN * !SN)	-0.00001	-0.00000	0.00000
	(D * !GN * !SN)	-0.00022	-0.00021	-0.00021
	(!D * GN * SN)	0.00011	0.00011	0.00011
	(!D * GN * SN)	0.00001	0.00001	0.00001
	(!D * GN * SN)	-0.00001	-0.00001	-0.00001
	(!D * GN * SN)	-0.00015	-0.00013	-0.00011
	(!D * GN * !SN)	0.00000	0.00001	0.00001
	(!D * GN * !SN)	0.00002	0.00002	0.00002
	(!D * GN * !SN)	-0.00001	-0.00001	-0.00001
	(!D * GN * !SN)	-0.00022	-0.00022	-0.00022
	(!D * !GN * SN)	0.00011	0.00011	0.00011
	(!D * !GN * SN)	0.00001	0.00001	0.00002
	(!D * !GN * SN)	-0.00001	-0.00001	-0.00001
	(!D * !GN * SN)	-0.00015	-0.00013	-0.00011
	(!D * !GN * !SN)	0.00001	0.00001	0.00002
	(!D * !GN * !SN)	0.00002	0.00002	0.00002
	(!D * !GN * !SN)	-0.00001	-0.00001	-0.00001
	(!D * !GN * !SN)	-0.00018	-0.00017	-0.00014

Passive power(pJ) for SN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

LATLSRX1H7H	**(D * GN * RN)**	0.00001	0.00002	0.00005
	(D * GN * RN)	0.00005	0.00006	0.00006
	(D * GN * RN)	-0.00003	-0.00003	-0.00003
	(D * GN * RN)	0.00093	0.00095	0.00098
	(D * GN * !RN)	0.00498	0.00508	0.00522
	(D * GN * !RN)	-0.00023	-0.00017	-0.00006
	(D * GN * !RN)	0.00006	0.00013	0.00019
	(D * GN * !RN)	0.00387	0.00400	0.00414
	(D * !GN * RN)	0.00001	0.00003	0.00005
	(D * !GN * RN)	0.00005	0.00006	0.00006
	(D * !GN * RN)	-0.00003	-0.00003	-0.00003
	(D * !GN * RN)	0.00093	0.00095	0.00098
	(D * !GN * !RN)	0.00590	0.00603	0.00618
	(D * !GN * !RN)	-0.00027	-0.00020	-0.00004
	(D * !GN * !RN)	0.00011	0.00022	0.00034
	(D * !GN * !RN)	0.00390	0.00399	0.00405
	(!D * GN * RN)	-0.00000	0.00002	0.00004
	(!D * GN * RN)	0.00005	0.00005	0.00006
	(!D * GN * RN)	-0.00003	-0.00003	-0.00003
	(!D * GN * RN)	0.00093	0.00095	0.00098
	(!D * GN * !RN)	0.00544	0.00564	0.00569
	(!D * GN * !RN)	-0.00038	-0.00029	-0.00021
	(!D * GN * !RN)	0.00007	0.00019	0.00038
	(!D * GN * !RN)	0.00392	0.00404	0.00422
	(!D * !GN * RN)	0.00528	0.00534	0.00554
	(!D * !GN * RN)	-0.00033	-0.00024	-0.00011
	(!D * !GN * RN)	0.00003	0.00011	0.00017
	(!D * !GN * RN)	0.00378	0.00391	0.00401
	(!D * !GN * !RN)	0.00523	0.00536	0.00545
	(!D * !GN * !RN)	-0.00029	-0.00024	-0.00016
	(!D * !GN * !RN)	-0.00002	0.00006	0.00019
	(!D * !GN * !RN)	0.00386	0.00400	0.00411

Passive power(pJ) for SN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

LATLSRX1H7H	**(D * GN * RN)**	0.00096	0.00098	0.00101
	(D * GN * RN)	-0.00006	-0.00006	-0.00005
	(D * GN * RN)	0.00003	0.00003	0.00003
	(D * GN * RN)	0.00003	0.00005	0.00008
	(D * GN * !RN)	0.00395	0.00405	0.00424
	(D * GN * !RN)	0.00012	0.00020	0.00026
	(D * GN * !RN)	-0.00019	-0.00006	0.00013
	(D * GN * !RN)	0.00500	0.00521	0.00528
	(D * !GN * RN)	0.00096	0.00098	0.00101
	(D * !GN * RN)	-0.00006	-0.00006	-0.00005
	(D * !GN * RN)	0.00003	0.00003	0.00003
	(D * !GN * RN)	0.00003	0.00005	0.00008
	(D * !GN * !RN)	0.00396	0.00408	0.00419
	(D * !GN * !RN)	0.00004	0.00022	0.00037
	(D * !GN * !RN)	-0.00034	-0.00020	-0.00011
	(D * !GN * !RN)	0.00594	0.00606	0.00622
	(!D * GN * RN)	0.00097	0.00099	0.00101
	(!D * GN * RN)	-0.00006	-0.00005	-0.00005
	(!D * GN * RN)	0.00003	0.00003	0.00003
	(!D * GN * RN)	0.00003	0.00005	0.00008
	(!D * GN * !RN)	0.00396	0.00405	0.00421
	(!D * GN * !RN)	0.00021	0.00030	0.00040
	(!D * GN * !RN)	-0.00026	-0.00016	-0.00007
	(!D * GN * !RN)	0.00511	0.00529	0.00544
	(!D * !GN * RN)	0.00382	0.00399	0.00417
	(!D * !GN * RN)	0.00011	0.00032	0.00053
	(!D * !GN * RN)	-0.00013	-0.00002	0.00011
	(!D * !GN * RN)	0.00523	0.00537	0.00544
	(!D * !GN * !RN)	0.00392	0.00401	0.00420
	(!D * !GN * !RN)	0.00016	0.00030	0.00046
	(!D * !GN * !RN)	-0.00019	-0.00005	0.00010
	(!D * !GN * !RN)	0.00521	0.00531	0.00546

LATLSRX2H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Low Enable Latch with Clear and Set
Q = !SN ? 1 : !RN ? 0 : !EN ? D : pre_Q
QN = !Q

Truth Table

INPUT				OUTPUT	
D	GN	RN	SN	Q	QN
x	x	x	x	-	-

Footprint

Cell Name	Area
LATLSRX2H7H	9.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)	
	D	GN	RN	SN	Q	QN
LATLSRX2H7H	0.00148	0.00089	0.00086	0.00084	0.05689	0.05696

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
LATLSRX2H7H	0.00000	0.09076	0.11609

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLSRX2H7H	D->Q (RR)	-	0.14155	0.33587	0.79632
	GN->Q (RR)	-	-0.46828	-0.01442	0.41161
	RN->Q (RR)	(D * GN)	-0.46830	-0.01365	0.41299
	SN->Q (FR)	(D * !GN * RN)	-0.46828	-0.01342	0.41323
	SN->Q (FR)	(!D * !GN * RN)	0.11216	0.29396	0.70586
	SN->Q (FR)	(D * GN * !RN)	0.10644	0.28539	0.70182
	SN->Q (FR)	(D * !GN * !RN)	0.11547	0.30157	0.71780
	SN->Q (FR)	(!D * GN * !RN)	0.11228	0.28944	0.70116
	SN->Q (FR)	(!D * !GN * !RN)	0.11623	0.29655	0.70799
	SN->Q (FR)	(!D * GN * RN)	0.10688	0.28110	0.68890

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLSRX2H7H	D->Q (FF)	-	0.18721	0.37504	0.80203
	GN->Q (RF)	-	-0.47021	-0.04100	0.31968
	RN->Q (FF)	(D * !GN)	0.19999	0.41262	0.89108
	RN->Q (FF)	(!D * !GN)	-0.47021	-0.04164	0.31501
	RN->Q (FF)	(D * GN)	0.18785	0.38478	0.83820
	SN->Q (RF)	(D * GN * !RN)	0.22460	0.39276	0.73014
	SN->Q (RF)	(D * !GN * !RN)	0.23665	0.42036	0.77873
	SN->Q (RF)	(!D * GN * !RN)	0.22714	0.39555	0.73511
	SN->Q (RF)	(!D * !GN * !RN)	0.18060	0.33889	0.67409

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLSRX2H7H	D->QN (FR)	-	0.26181	0.44104	0.90417
	GN->QN (RR)	-	-0.46828	-0.01373	0.41331
	RN->QN (FR)	(D * !GN)	0.28458	0.47590	0.97749
	RN->QN (FR)	(!D * !GN)	-0.46828	-0.01382	0.41291
	RN->QN (FR)	(D * GN)	0.26714	0.45627	0.95557
	SN->QN (RR)	(D * GN * !RN)	0.30394	0.46412	0.85094
	SN->QN (RR)	(D * !GN * !RN)	0.32129	0.48368	0.87108
	SN->QN (RR)	(!D * GN * !RN)	0.30551	0.46620	0.85442
	SN->QN (RR)	(!D * !GN * !RN)	0.24443	0.40621	0.79624

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLSRX2H7H	D->QN (RF)	-	0.20917	0.36062	0.73279
	GN->QN (RF)	-	-0.47019	-0.04240	0.31307
	RN->QN (RF)	(D * GN)	-0.47019	-0.04249	0.31259
	SN->QN (FF)	(D * !GN * RN)	-0.47020	-0.04251	0.31254
	SN->QN (FF)	(!D * !GN * RN)	0.17703	0.32049	0.65423
	SN->QN (FF)	(D * GN * !RN)	0.16387	0.30762	0.64186
	SN->QN (FF)	(D * !GN * !RN)	0.18329	0.32793	0.66234
	SN->QN (FF)	(!D * GN * !RN)	0.17124	0.31474	0.64871
	SN->QN (FF)	(!D * !GN * !RN)	0.17863	0.32180	0.65571
	SN->QN (FF)	(!D * GN * RN)	0.16473	0.30778	0.64219

Constraint Information

Min Pulse Width (ns) for GN:

Cell Name	High	Low
LATLSRX2H7H	0.9851	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

LATLSRX2H7H	**D**	**-**	0.00142	0.00146	0.00150
	D	**-**	0.00007	0.00008	0.00009
	D	**-**	-0.00007	-0.00007	-0.00005
	D	**-**	0.00250	0.00253	0.00258
	GN	**-**	0.00168	0.00171	0.00179
	GN	**-**	-0.00004	-0.00003	-0.00003
	GN	**-**	0.00001	0.00005	0.00007
	GN	**-**	0.00242	0.00245	0.00249
	RN	**(D * GN)**	0.00043	0.00045	0.00066
	RN	**(D * GN)**	0.00000	0.00000	0.00000
	RN	**(D * GN)**	0.00004	0.00005	0.00006
	RN	**(D * GN)**	0.00036	0.00037	0.00037
	SN	**(D * GN * !RN)**	0.00209	0.00214	0.00218
	SN	**(D * GN * !RN)**	0.00012	0.00013	0.00015
	SN	**(D * GN * !RN)**	-0.00009	-0.00007	-0.00006
	SN	**(D * GN * !RN)**	0.00270	0.00275	0.00279
	SN	**(D * !GN * RN)**	0.00140	0.00143	0.00155
	SN	**(D * !GN * RN)**	-0.00015	-0.00013	-0.00012
	SN	**(D * !GN * RN)**	0.00007	0.00008	0.00009
	SN	**(D * !GN * RN)**	0.00018	0.00020	0.00023
	SN	**(D * !GN * !RN)**	0.00212	0.00217	0.00221
	SN	**(D * !GN * !RN)**	0.00012	0.00014	0.00015
	SN	**(D * !GN * !RN)**	-0.00012	-0.00011	-0.00009
	SN	**(D * !GN * !RN)**	0.00311	0.00315	0.00319
	SN	**(!D * GN * RN)**	0.00205	0.00211	0.00215
	SN	**(!D * GN * RN)**	0.00007	0.00009	0.00011
	SN	**(!D * GN * RN)**	-0.00005	-0.00005	-0.00004
	SN	**(!D * GN * RN)**	0.00222	0.00227	0.00231
	SN	**(!D * GN * !RN)**	0.00208	0.00214	0.00217
	SN	**(!D * GN * !RN)**	0.00013	0.00015	0.00016
	SN	**(!D * GN * !RN)**	-0.00008	-0.00006	-0.00005
	SN	**(!D * GN * !RN)**	0.00262	0.00267	0.00271
	SN	**(!D * !GN * RN)**	0.00211	0.00215	0.00219
	SN	**(!D * !GN * RN)**	0.00013	0.00014	0.00016
	SN	**(!D * !GN * RN)**	-0.00007	-0.00006	-0.00005
	SN	**(!D * !GN * RN)**	0.00279	0.00284	0.00288
	SN	**(!D * !GN * !RN)**	0.00209	0.00214	0.00217
	SN	**(!D * !GN * !RN)**	0.00013	0.00015	0.00017
	SN	**(!D * !GN * !RN)**	-0.00005	-0.00005	-0.00004
	SN	**(!D * !GN * !RN)**	0.00274	0.00279	0.00283

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

LATLSRX2H7H	**D**	**-**	0.00247	0.00251	0.00255
	D	**-**	-0.00009	-0.00008	-0.00007
	D	**-**	0.00005	0.00007	0.00008
	D	**-**	0.00139	0.00144	0.00148
	GN	**-**	0.00153	0.00156	0.00159
	GN	**-**	0.00005	0.00005	0.00005
	GN	**-**	-0.00002	-0.00002	-0.00001
	GN	**-**	0.00273	0.00277	0.00290
	RN	**(D * GN)**	0.00234	0.00238	0.00242
	RN	**(D * GN)**	0.00000	0.00000	0.00000
	RN	**(D * GN)**	0.00007	0.00008	0.00010
	RN	**(D * GN)**	0.00152	0.00156	0.00160
	RN	**(D * !GN)**	0.00274	0.00278	0.00282
	RN	**(D * !GN)**	-0.00010	-0.00010	-0.00008
	RN	**(D * !GN)**	0.00010	0.00012	0.00013
	RN	**(D * !GN)**	0.00148	0.00152	0.00156
	RN	**(!D * !GN)**	0.00026	0.00026	0.00026
	RN	**(!D * !GN)**	0.00006	0.00007	0.00009
	RN	**(!D * !GN)**	-0.00007	-0.00007	-0.00006
	RN	**(!D * !GN)**	0.00029	0.00032	0.00042
	SN	**(D * GN * !RN)**	0.00268	0.00271	0.00275
	SN	**(D * GN * !RN)**	-0.00015	-0.00013	-0.00012
	SN	**(D * GN * !RN)**	0.00006	0.00007	0.00009
	SN	**(D * GN * !RN)**	0.00211	0.00216	0.00220
	SN	**(D * !GN * !RN)**	0.00307	0.00311	0.00315
	SN	**(D * !GN * !RN)**	-0.00015	-0.00014	-0.00012
	SN	**(D * !GN * !RN)**	0.00009	0.00011	0.00012
	SN	**(D * !GN * !RN)**	0.00208	0.00212	0.00216
	SN	**(!D * GN * !RN)**	0.00297	0.00301	0.00305
	SN	**(!D * GN * !RN)**	-0.00016	-0.00015	-0.00013
	SN	**(!D * GN * !RN)**	0.00007	0.00008	0.00010
	SN	**(!D * GN * !RN)**	0.00213	0.00218	0.00222
	SN	**(!D * !GN * !RN)**	0.00279	0.00283	0.00287
	SN	**(!D * !GN * !RN)**	-0.00016	-0.00015	-0.00013
	SN	**(!D * !GN * !RN)**	0.00004	0.00005	0.00006
	SN	**(!D * !GN * !RN)**	0.00206	0.00211	0.00215

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

LATLSRX2H7H	**D**	**-**	0.00247	0.00251	0.00255
	D	**-**	-0.00008	-0.00008	-0.00007
	D	**-**	0.00007	0.00007	0.00007
	D	**-**	0.00139	0.00144	0.00148
	GN	**-**	0.00184	0.00186	0.00198
	GN	**-**	-0.00010	-0.00009	-0.00007
	GN	**-**	0.00005	0.00008	0.00011
	GN	**-**	0.00244	0.00247	0.00252
	RN	**(D * GN)**	0.00234	0.00238	0.00242
	RN	**(D * GN)**	-0.00004	-0.00004	-0.00004
	RN	**(D * GN)**	0.00007	0.00008	0.00010
	RN	**(D * GN)**	0.00152	0.00156	0.00160
	RN	**(D * !GN)**	0.00274	0.00278	0.00282
	RN	**(D * !GN)**	-0.00011	-0.00010	-0.00009
	RN	**(D * !GN)**	0.00011	0.00012	0.00012
	RN	**(D * !GN)**	0.00148	0.00152	0.00156
	RN	**(!D * !GN)**	0.00054	0.00055	0.00064
	RN	**(!D * !GN)**	-0.00008	-0.00006	-0.00004
	RN	**(!D * !GN)**	0.00001	0.00003	0.00004
	RN	**(!D * !GN)**	-0.00000	0.00002	0.00004
	SN	**(D * GN * !RN)**	0.00267	0.00271	0.00276
	SN	**(D * GN * !RN)**	-0.00015	-0.00013	-0.00011
	SN	**(D * GN * !RN)**	0.00005	0.00007	0.00008
	SN	**(D * GN * !RN)**	0.00212	0.00216	0.00220
	SN	**(D * !GN * !RN)**	0.00308	0.00311	0.00316
	SN	**(D * !GN * !RN)**	-0.00015	-0.00014	-0.00013
	SN	**(D * !GN * !RN)**	0.00009	0.00011	0.00013
	SN	**(D * !GN * !RN)**	0.00208	0.00212	0.00216
	SN	**(!D * GN * !RN)**	0.00297	0.00301	0.00305
	SN	**(!D * GN * !RN)**	-0.00016	-0.00015	-0.00014
	SN	**(!D * GN * !RN)**	0.00008	0.00009	0.00010
	SN	**(!D * GN * !RN)**	0.00213	0.00218	0.00222
	SN	**(!D * !GN * !RN)**	0.00279	0.00283	0.00288
	SN	**(!D * !GN * !RN)**	-0.00015	-0.00015	-0.00014
	SN	**(!D * !GN * !RN)**	0.00004	0.00005	0.00005
	SN	**(!D * !GN * !RN)**	0.00206	0.00211	0.00215

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

LATLSRX2H7H	**D**	**-**	0.00142	0.00146	0.00150
	D	**-**	0.00007	0.00008	0.00008
	D	**-**	-0.00007	-0.00007	-0.00007
	D	**-**	0.00249	0.00253	0.00258
	GN	**-**	0.00140	0.00143	0.00145
	GN	**-**	0.00008	0.00010	0.00012
	GN	**-**	-0.00009	-0.00006	-0.00003
	GN	**-**	0.00274	0.00278	0.00285
	RN	**(D * GN)**	0.00015	0.00015	0.00015
	RN	**(D * GN)**	0.00004	0.00004	0.00004
	RN	**(D * GN)**	-0.00006	-0.00005	-0.00004
	RN	**(D * GN)**	0.00065	0.00068	0.00096
	SN	**(D * GN * !RN)**	0.00210	0.00214	0.00218
	SN	**(D * GN * !RN)**	0.00011	0.00013	0.00015
	SN	**(D * GN * !RN)**	-0.00008	-0.00007	-0.00005
	SN	**(D * GN * !RN)**	0.00270	0.00275	0.00279
	SN	**(D * !GN * RN)**	0.00111	0.00113	0.00116
	SN	**(D * !GN * RN)**	-0.00001	0.00000	0.00001
	SN	**(D * !GN * RN)**	-0.00003	-0.00002	-0.00001
	SN	**(D * !GN * RN)**	0.00046	0.00049	0.00063
	SN	**(D * !GN * !RN)**	0.00211	0.00217	0.00221
	SN	**(D * !GN * !RN)**	0.00013	0.00014	0.00015
	SN	**(D * !GN * !RN)**	-0.00012	-0.00011	-0.00009
	SN	**(D * !GN * !RN)**	0.00311	0.00315	0.00319
	SN	**(!D * GN * RN)**	0.00206	0.00211	0.00215
	SN	**(!D * GN * RN)**	0.00007	0.00009	0.00010
	SN	**(!D * GN * RN)**	-0.00005	-0.00005	-0.00003
	SN	**(!D * GN * RN)**	0.00223	0.00227	0.00233
	SN	**(!D * GN * !RN)**	0.00209	0.00214	0.00217
	SN	**(!D * GN * !RN)**	0.00014	0.00015	0.00016
	SN	**(!D * GN * !RN)**	-0.00006	-0.00006	-0.00005
	SN	**(!D * GN * !RN)**	0.00261	0.00266	0.00270
	SN	**(!D * !GN * RN)**	0.00211	0.00215	0.00219
	SN	**(!D * !GN * RN)**	0.00014	0.00014	0.00016
	SN	**(!D * !GN * RN)**	-0.00007	-0.00006	-0.00005
	SN	**(!D * !GN * RN)**	0.00279	0.00283	0.00288
	SN	**(!D * !GN * !RN)**	0.00209	0.00213	0.00217
	SN	**(!D * !GN * !RN)**	0.00014	0.00015	0.00015
	SN	**(!D * !GN * !RN)**	-0.00005	-0.00005	-0.00004
	SN	**(!D * !GN * !RN)**	0.00274	0.00278	0.00282

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

LATLSRX2H7H	**(GN * RN * SN)**	-0.00009	-0.00006	-0.00003
	(GN * RN * SN)	0.00008	0.00009	0.00009
	(GN * RN * SN)	-0.00009	-0.00008	-0.00007
	(GN * RN * SN)	0.00139	0.00141	0.00145
	(GN * RN * !SN)	-0.00001	-0.00001	-0.00001
	(GN * RN * !SN)	-0.00005	-0.00005	-0.00004
	(GN * RN * !SN)	0.00001	0.00001	0.00001
	(GN * RN * !SN)	0.00027	0.00027	0.00027
	(GN * !RN * SN)	-0.00021	-0.00016	-0.00012
	(GN * !RN * SN)	-0.00002	-0.00001	-0.00000
	(GN * !RN * SN)	0.00003	0.00004	0.00004
	(GN * !RN * SN)	0.00002	0.00002	0.00002
	(GN * !RN * !SN)	-0.00001	-0.00001	-0.00001
	(GN * !RN * !SN)	-0.00005	-0.00005	-0.00004
	(GN * !RN * !SN)	0.00001	0.00002	0.00002
	(GN * !RN * !SN)	0.00024	0.00024	0.00024
	(!GN * RN * SN)	0.00282	0.00289	0.00298
	(!GN * RN * SN)	0.00005	0.00015	0.00023
	(!GN * RN * SN)	-0.00014	-0.00006	0.00000
	(!GN * RN * SN)	0.00497	0.00502	0.00509
	(!GN * RN * !SN)	-0.00001	-0.00001	-0.00001
	(!GN * RN * !SN)	-0.00004	-0.00004	-0.00004
	(!GN * RN * !SN)	0.00000	0.00001	0.00001
	(!GN * RN * !SN)	0.00033	0.00033	0.00033
	(!GN * !RN * SN)	-0.00029	-0.00029	-0.00029
	(!GN * !RN * SN)	-0.00003	-0.00002	-0.00002
	(!GN * !RN * SN)	0.00002	0.00003	0.00003
	(!GN * !RN * SN)	0.00001	0.00001	0.00001
	(!GN * !RN * !SN)	-0.00002	-0.00002	-0.00002
	(!GN * !RN * !SN)	-0.00004	-0.00004	-0.00003
	(!GN * !RN * !SN)	0.00001	0.00002	0.00003
	(!GN * !RN * !SN)	0.00027	0.00027	0.00027

Passive power(pJ) for D falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

LATLSRX2H7H	**(GN * RN * SN)**	0.00138	0.00141	0.00147
	(GN * RN * SN)	-0.00009	-0.00008	-0.00008
	(GN * RN * SN)	0.00007	0.00008	0.00009
	(GN * RN * SN)	-0.00010	-0.00007	-0.00001
	(GN * RN * !SN)	0.00001	0.00002	0.00002
	(GN * RN * !SN)	0.00005	0.00005	0.00006
	(GN * RN * !SN)	-0.00001	-0.00001	-0.00001
	(GN * RN * !SN)	-0.00025	-0.00021	-0.00016
	(GN * !RN * SN)	0.00037	0.00037	0.00037
	(GN * !RN * SN)	0.00000	0.00001	0.00002
	(GN * !RN * SN)	-0.00003	-0.00002	-0.00002
	(GN * !RN * SN)	-0.00000	-0.00000	0.00000
	(GN * !RN * !SN)	0.00001	0.00002	0.00002
	(GN * !RN * !SN)	0.00004	0.00005	0.00005
	(GN * !RN * !SN)	-0.00002	-0.00002	-0.00001
	(GN * !RN * !SN)	-0.00024	-0.00020	-0.00015
	(!GN * RN * SN)	0.00493	0.00498	0.00500
	(!GN * RN * SN)	-0.00020	-0.00014	-0.00005
	(!GN * RN * SN)	0.00000	0.00006	0.00014
	(!GN * RN * SN)	0.00279	0.00289	0.00297
	(!GN * RN * !SN)	0.00001	0.00001	0.00001
	(!GN * RN * !SN)	0.00004	0.00004	0.00004
	(!GN * RN * !SN)	-0.00001	-0.00000	0.00000
	(!GN * RN * !SN)	-0.00033	-0.00032	-0.00032
	(!GN * !RN * SN)	0.00029	0.00029	0.00029
	(!GN * !RN * SN)	0.00002	0.00002	0.00003
	(!GN * !RN * SN)	-0.00003	-0.00003	-0.00002
	(!GN * !RN * SN)	-0.00001	-0.00001	-0.00001
	(!GN * !RN * !SN)	0.00002	0.00002	0.00003
	(!GN * !RN * !SN)	0.00003	0.00004	0.00004
	(!GN * !RN * !SN)	-0.00003	-0.00002	-0.00001
	(!GN * !RN * !SN)	-0.00027	-0.00024	-0.00020

Passive power(pJ) for GN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

LATLSRX2H7H	**(D * RN * SN)**	0.00123	0.00125	0.00128
	(D * RN * SN)	0.00001	0.00001	0.00001
	(D * RN * SN)	-0.00000	0.00000	0.00001
	(D * RN * SN)	0.00222	0.00224	0.00227
	(D * RN * !SN)	0.00123	0.00126	0.00128
	(D * RN * !SN)	0.00001	0.00001	0.00001
	(D * RN * !SN)	0.00000	0.00000	0.00001
	(D * RN * !SN)	0.00222	0.00225	0.00227
	(D * !RN * SN)	0.00136	0.00138	0.00140
	(D * !RN * SN)	-0.00001	-0.00001	-0.00000
	(D * !RN * SN)	0.00001	0.00002	0.00002
	(D * !RN * SN)	0.00228	0.00230	0.00233
	(D * !RN * !SN)	0.00123	0.00125	0.00128
	(D * !RN * !SN)	0.00001	0.00001	0.00001
	(D * !RN * !SN)	0.00000	0.00000	0.00001
	(D * !RN * !SN)	0.00222	0.00225	0.00227
	(!D * RN * SN)	0.00134	0.00136	0.00139
	(!D * RN * SN)	-0.00001	-0.00001	-0.00000
	(!D * RN * SN)	0.00001	0.00001	0.00002
	(!D * RN * SN)	0.00227	0.00230	0.00233
	(!D * RN * !SN)	0.00123	0.00126	0.00128
	(!D * RN * !SN)	0.00001	0.00001	0.00002
	(!D * RN * !SN)	-0.00000	0.00000	0.00000
	(!D * RN * !SN)	0.00224	0.00227	0.00231
	(!D * !RN * SN)	0.00134	0.00136	0.00138
	(!D * !RN * SN)	-0.00001	-0.00001	-0.00000
	(!D * !RN * SN)	0.00001	0.00001	0.00002
	(!D * !RN * SN)	0.00228	0.00230	0.00233
	(!D * !RN * !SN)	0.00122	0.00125	0.00127
	(!D * !RN * !SN)	0.00001	0.00001	0.00002
	(!D * !RN * !SN)	0.00000	0.00001	0.00001
	(!D * !RN * !SN)	0.00219	0.00223	0.00226

Passive power(pJ) for GN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

LATLSRX2H7H	**(D * RN * SN)**	0.00225	0.00227	0.00231
	(D * RN * SN)	-0.00001	-0.00001	-0.00001
	(D * RN * SN)	-0.00001	-0.00000	0.00000
	(D * RN * SN)	0.00126	0.00128	0.00131
	(D * RN * !SN)	0.00225	0.00227	0.00230
	(D * RN * !SN)	-0.00001	-0.00001	-0.00000
	(D * RN * !SN)	-0.00001	-0.00000	-0.00000
	(D * RN * !SN)	0.00126	0.00128	0.00131
	(D * !RN * SN)	0.00214	0.00216	0.00220
	(D * !RN * SN)	0.00000	0.00001	0.00001
	(D * !RN * SN)	-0.00002	-0.00001	-0.00001
	(D * !RN * SN)	0.00120	0.00122	0.00125
	(D * !RN * !SN)	0.00225	0.00227	0.00231
	(D * !RN * !SN)	-0.00001	-0.00001	-0.00001
	(D * !RN * !SN)	-0.00000	-0.00000	0.00000
	(D * !RN * !SN)	0.00126	0.00128	0.00131
	(!D * RN * SN)	0.00214	0.00216	0.00220
	(!D * RN * SN)	0.00000	0.00001	0.00001
	(!D * RN * SN)	-0.00001	-0.00001	-0.00001
	(!D * RN * SN)	0.00120	0.00122	0.00125
	(!D * RN * !SN)	0.00225	0.00227	0.00230
	(!D * RN * !SN)	-0.00001	-0.00001	-0.00000
	(!D * RN * !SN)	-0.00000	0.00000	0.00000
	(!D * RN * !SN)	0.00126	0.00128	0.00131
	(!D * !RN * SN)	0.00214	0.00216	0.00219
	(!D * !RN * SN)	0.00000	0.00001	0.00001
	(!D * !RN * SN)	-0.00001	-0.00001	-0.00001
	(!D * !RN * SN)	0.00120	0.00122	0.00124
	(!D * !RN * !SN)	0.00225	0.00228	0.00230
	(!D * !RN * !SN)	-0.00001	-0.00001	-0.00001
	(!D * !RN * !SN)	-0.00001	-0.00001	-0.00000
	(!D * !RN * !SN)	0.00129	0.00131	0.00133

Passive power(pJ) for RN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

LATLSRX2H7H	**(D * GN * SN)**	-0.00011	-0.00011	-0.00011
	(D * GN * SN)	-0.00001	-0.00001	-0.00001
	(D * GN * SN)	0.00001	0.00001	0.00001
	(D * GN * SN)	0.00014	0.00014	0.00014
	(D * GN * !SN)	-0.00001	-0.00001	-0.00000
	(D * GN * !SN)	-0.00002	-0.00002	-0.00002
	(D * GN * !SN)	0.00000	0.00001	0.00001
	(D * GN * !SN)	0.00022	0.00022	0.00022
	(D * !GN * SN)	0.00286	0.00298	0.00310
	(D * !GN * SN)	0.00001	0.00014	0.00025
	(D * !GN * SN)	-0.00029	-0.00020	-0.00009
	(D * !GN * SN)	0.00545	0.00554	0.00559
	(D * !GN * !SN)	-0.00001	-0.00001	-0.00000
	(D * !GN * !SN)	-0.00002	-0.00002	-0.00002
	(D * !GN * !SN)	0.00000	0.00001	0.00001
	(D * !GN * !SN)	0.00022	0.00022	0.00022
	(!D * GN * SN)	-0.00011	-0.00011	-0.00010
	(!D * GN * SN)	-0.00001	-0.00001	-0.00001
	(!D * GN * SN)	0.00001	0.00001	0.00001
	(!D * GN * SN)	0.00014	0.00015	0.00015
	(!D * GN * !SN)	-0.00001	-0.00001	-0.00001
	(!D * GN * !SN)	-0.00002	-0.00002	-0.00002
	(!D * GN * !SN)	0.00000	0.00001	0.00001
	(!D * GN * !SN)	0.00022	0.00022	0.00022
	(!D * !GN * SN)	-0.00011	-0.00011	-0.00011
	(!D * !GN * SN)	-0.00001	-0.00001	-0.00001
	(!D * !GN * SN)	0.00001	0.00001	0.00001
	(!D * !GN * SN)	0.00014	0.00015	0.00015
	(!D * !GN * !SN)	-0.00001	-0.00001	-0.00001
	(!D * !GN * !SN)	-0.00002	-0.00002	-0.00002
	(!D * !GN * !SN)	0.00001	0.00001	0.00001
	(!D * !GN * !SN)	0.00018	0.00018	0.00018

Passive power(pJ) for RN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

LATLSRX2H7H	**(D * GN * SN)**	0.00011	0.00011	0.00011
	(D * GN * SN)	0.00001	0.00001	0.00002
	(D * GN * SN)	-0.00001	-0.00001	-0.00001
	(D * GN * SN)	-0.00014	-0.00013	-0.00011
	(D * GN * !SN)	0.00001	0.00001	0.00001
	(D * GN * !SN)	0.00002	0.00002	0.00002
	(D * GN * !SN)	-0.00001	-0.00001	-0.00000
	(D * GN * !SN)	-0.00022	-0.00021	-0.00021
	(D * !GN * SN)	0.00554	0.00558	0.00563
	(D * !GN * SN)	-0.00025	-0.00014	-0.00001
	(D * !GN * SN)	0.00014	0.00028	0.00040
	(D * !GN * SN)	0.00293	0.00298	0.00305
	(D * !GN * !SN)	0.00001	0.00001	0.00001
	(D * !GN * !SN)	0.00002	0.00002	0.00003
	(D * !GN * !SN)	-0.00001	-0.00000	0.00000
	(D * !GN * !SN)	-0.00022	-0.00021	-0.00021
	(!D * GN * SN)	0.00011	0.00011	0.00011
	(!D * GN * SN)	0.00001	0.00001	0.00001
	(!D * GN * SN)	-0.00001	-0.00001	-0.00001
	(!D * GN * SN)	-0.00015	-0.00013	-0.00011
	(!D * GN * !SN)	0.00001	0.00001	0.00001
	(!D * GN * !SN)	0.00002	0.00002	0.00002
	(!D * GN * !SN)	-0.00001	-0.00001	-0.00000
	(!D * GN * !SN)	-0.00022	-0.00022	-0.00022
	(!D * !GN * SN)	0.00011	0.00011	0.00011
	(!D * !GN * SN)	0.00001	0.00001	0.00002
	(!D * !GN * SN)	-0.00001	-0.00001	-0.00001
	(!D * !GN * SN)	-0.00015	-0.00013	-0.00011
	(!D * !GN * !SN)	0.00001	0.00001	0.00002
	(!D * !GN * !SN)	0.00002	0.00002	0.00002
	(!D * !GN * !SN)	-0.00001	-0.00001	-0.00001
	(!D * !GN * !SN)	-0.00018	-0.00017	-0.00014

Passive power(pJ) for SN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

LATLSRX2H7H	**(D * GN * RN)**	0.00001	0.00002	0.00005
	(D * GN * RN)	0.00005	0.00006	0.00007
	(D * GN * RN)	-0.00003	-0.00003	-0.00003
	(D * GN * RN)	0.00093	0.00095	0.00098
	(D * GN * !RN)	0.00532	0.00539	0.00556
	(D * GN * !RN)	-0.00029	-0.00020	-0.00012
	(D * GN * !RN)	0.00003	0.00015	0.00034
	(D * GN * !RN)	0.00413	0.00429	0.00444
	(D * !GN * RN)	0.00001	0.00003	0.00005
	(D * !GN * RN)	0.00005	0.00006	0.00006
	(D * !GN * RN)	-0.00003	-0.00003	-0.00003
	(D * !GN * RN)	0.00093	0.00095	0.00098
	(D * !GN * !RN)	0.00621	0.00626	0.00638
	(D * !GN * !RN)	-0.00038	-0.00026	-0.00015
	(D * !GN * !RN)	0.00012	0.00021	0.00037
	(D * !GN * !RN)	0.00411	0.00422	0.00427
	(!D * GN * RN)	-0.00000	0.00002	0.00004
	(!D * GN * RN)	0.00005	0.00005	0.00006
	(!D * GN * RN)	-0.00003	-0.00003	-0.00003
	(!D * GN * RN)	0.00093	0.00095	0.00098
	(!D * GN * !RN)	0.00592	0.00600	0.00618
	(!D * GN * !RN)	-0.00033	-0.00024	0.00000
	(!D * GN * !RN)	0.00007	0.00021	0.00033
	(!D * GN * !RN)	0.00422	0.00429	0.00441
	(!D * !GN * RN)	0.00548	0.00552	0.00557
	(!D * !GN * RN)	-0.00037	-0.00030	-0.00022
	(!D * !GN * RN)	-0.00005	0.00007	0.00026
	(!D * !GN * RN)	0.00395	0.00408	0.00417
	(!D * !GN * !RN)	0.00557	0.00564	0.00571
	(!D * !GN * !RN)	-0.00039	-0.00031	-0.00020
	(!D * !GN * !RN)	0.00000	0.00010	0.00020
	(!D * !GN * !RN)	0.00402	0.00415	0.00429

Passive power(pJ) for SN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

LATLSRX2H7H	**(D * GN * RN)**	0.00096	0.00098	0.00101
	(D * GN * RN)	-0.00007	-0.00006	-0.00005
	(D * GN * RN)	0.00003	0.00003	0.00003
	(D * GN * RN)	0.00003	0.00005	0.00008
	(D * GN * !RN)	0.00418	0.00424	0.00431
	(D * GN * !RN)	0.00013	0.00023	0.00034
	(D * GN * !RN)	-0.00024	-0.00011	-0.00003
	(D * GN * !RN)	0.00542	0.00552	0.00562
	(D * !GN * RN)	0.00096	0.00098	0.00101
	(D * !GN * RN)	-0.00006	-0.00006	-0.00005
	(D * !GN * RN)	0.00003	0.00003	0.00003
	(D * !GN * RN)	0.00003	0.00005	0.00008
	(D * !GN * !RN)	0.00406	0.00428	0.00438
	(D * !GN * !RN)	0.00015	0.00035	0.00076
	(D * !GN * !RN)	-0.00031	-0.00018	-0.00006
	(D * !GN * !RN)	0.00621	0.00633	0.00644
	(!D * GN * RN)	0.00097	0.00099	0.00102
	(!D * GN * RN)	-0.00006	-0.00005	-0.00005
	(!D * GN * RN)	0.00003	0.00003	0.00003
	(!D * GN * RN)	0.00003	0.00005	0.00008
	(!D * GN * !RN)	0.00408	0.00423	0.00445
	(!D * GN * !RN)	0.00000	0.00028	0.00047
	(!D * GN * !RN)	-0.00033	-0.00012	-0.00004
	(!D * GN * !RN)	0.00532	0.00547	0.00566
	(!D * !GN * RN)	0.00388	0.00422	0.00437
	(!D * !GN * RN)	0.00022	0.00037	0.00073
	(!D * !GN * RN)	-0.00024	-0.00006	0.00005
	(!D * !GN * RN)	0.00562	0.00567	0.00576
	(!D * !GN * !RN)	0.00397	0.00415	0.00424
	(!D * !GN * !RN)	0.00020	0.00036	0.00078
	(!D * !GN * !RN)	-0.00018	-0.00007	0.00000
	(!D * !GN * !RN)	0.00552	0.00564	0.00581

LATLSX0P5H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Latch
Q = !SN ? 1 : !EN ? D : pre_Q
QN = !Q

Truth Table

INPUT			OUTPUT	
D	GN	SN	Q	QN
0	x	0	1	0
0	0	1	0	1
x	1	1	IQ	IQN
1	0	x	1	0
1	1	0	1	0

Footprint

Cell Name	Area
LATLSX0P5H7H	8.12000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)	
	D	GN	SN	Q	QN
LATLSX0P5H7H	0.00123	0.00102	0.00106	0.04249	0.04270

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
LATLSX0P5H7H	0.00000	0.06815	0.07155

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLSX0P5H7H	D->Q (RR)	-	0.10041	0.29098	0.75040
	GN->Q (FR)	SN	0.13748	0.32800	0.77573
	SN->Q (FR)	-	0.11392	0.29574	0.72471

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLSX0P5H7H	D->Q (FF)	-	0.16306	0.34452	0.75920
	GN->Q (FF)	SN	0.18598	0.36341	0.73778
	SN->Q (RF)	-	0.19761	0.36635	0.71694

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLSX0P5H7H	D->QN (FR)	-	0.23659	0.41279	0.87147
	GN->QN (FR)	SN	0.25968	0.43211	0.86024
	SN->QN (RR)	-	0.27114	0.43468	0.83854

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLSX0P5H7H	D->QN (RF)	-	0.15942	0.31033	0.68004
	GN->QN (FF)	SN	0.19800	0.34847	0.71146
	SN->QN (FF)	-	0.16853	0.31518	0.66328

Constraint Information

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATLSX0P5H7H	hold	GN (R)	-0.22866	-0.07901	0.01912
	setup	GN (R)	0.05288	0.12204	0.27637

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATLSX0P5H7H	hold	GN (R)	-0.29269	-0.08778	0.08074
	setup	GN (R)	-0.03157	0.13182	0.34775

Min Pulse Width (ns) for GN:

Cell Name	High	Low
LATLSX0P5H7H	-	0.9851

Constraints(ns) for SN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATLSX0P5H7H	recovery	GN (R)	-0.00191	0.15347	0.31612
	removal	GN (R)	-0.27225	-0.11322	0.04220

Min Pulse Width (ns) for SN:

Cell Name	High	Low
LATLSX0P5H7H	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLSX0P5H7H	D	-	0.00129	0.00137	0.00143
	D	-	0.00005	0.00006	0.00006
	D	-	-0.00006	-0.00006	-0.00005
	D	-	0.00184	0.00192	0.00198
	GN	SN	0.00229	0.00238	0.00245
	GN	SN	0.00001	0.00002	0.00002
	GN	SN	-0.00003	-0.00003	-0.00002
	GN	SN	0.00199	0.00208	0.00215
	SN	-	0.00221	0.00229	0.00235
	SN	-	0.00005	0.00006	0.00008
	SN	-	-0.00004	-0.00003	-0.00002
	SN	-	0.00205	0.00213	0.00219

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLSX0P5H7H	D	-	0.00194	0.00201	0.00208
	D	-	-0.00006	-0.00006	-0.00005
	D	-	0.00005	0.00006	0.00006
	D	-	0.00140	0.00146	0.00153
	GN	SN	0.00261	0.00268	0.00274
	GN	SN	-0.00002	-0.00002	-0.00001
	GN	SN	0.00002	0.00003	0.00003
	GN	SN	0.00219	0.00226	0.00232
	SN	-	0.00208	0.00216	0.00223
	SN	-	-0.00008	-0.00006	-0.00005
	SN	-	0.00004	0.00004	0.00005
	SN	-	0.00220	0.00228	0.00235

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLSX0P5H7H	D	-	0.00195	0.00201	0.00208
	D	-	-0.00006	-0.00006	-0.00005
	D	-	0.00005	0.00006	0.00007
	D	-	0.00139	0.00146	0.00153
	GN	SN	0.00261	0.00268	0.00274
	GN	SN	-0.00002	-0.00002	-0.00001
	GN	SN	0.00002	0.00003	0.00003
	GN	SN	0.00220	0.00227	0.00232
	SN	-	0.00208	0.00216	0.00223
	SN	-	-0.00006	-0.00006	-0.00005
	SN	-	0.00003	0.00004	0.00005
	SN	-	0.00220	0.00228	0.00235

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLSX0P5H7H	D	-	0.00129	0.00137	0.00143
	D	-	0.00005	0.00006	0.00006
	D	-	-0.00006	-0.00006	-0.00005
	D	-	0.00184	0.00191	0.00197
	GN	SN	0.00229	0.00238	0.00245
	GN	SN	0.00001	0.00002	0.00002
	GN	SN	-0.00003	-0.00003	-0.00002
	GN	SN	0.00199	0.00208	0.00215
	SN	-	0.00221	0.00229	0.00235
	SN	-	0.00005	0.00006	0.00006
	SN	-	-0.00004	-0.00003	-0.00002
	SN	-	0.00205	0.00213	0.00219

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
LATLSX0P5H7H	-0.00003	0.00000	0.00004
	0.00008	0.00009	0.00009
	-0.00006	-0.00006	-0.00006
	0.00099	0.00102	0.00106

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
LATLSX0P5H7H	0.00088	0.00090	0.00094
	-0.00009	-0.00009	-0.00008
	0.00006	0.00006	0.00006
	-0.00014	-0.00012	-0.00009

Passive power(pJ) for GN rising :

Cell Name	Power(pJ)		
	min	avg	max
LATLSX0P5H7H	0.00105	0.00110	0.00115
	0.00001	0.00001	0.00002
	-0.00001	-0.00000	0.00000
	0.00179	0.00184	0.00190

Passive power(pJ) for GN falling :

Cell Name	Power(pJ)		
	min	avg	max
LATLSX0P5H7H	0.00196	0.00200	0.00205
	-0.00001	-0.00000	-0.00000
	0.00000	0.00000	0.00001
	0.00123	0.00127	0.00132

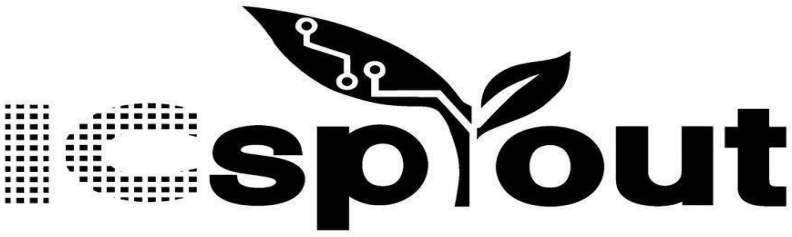
Passive power(pJ) for SN rising :

Cell Name	Power(pJ)		
	min	avg	max
LATLSX0P5H7H	0.00006	0.00009	0.00011
	0.00008	0.00008	0.00009
	-0.00003	-0.00003	-0.00003
	0.00103	0.00106	0.00109

Passive power(pJ) for SN falling :

Cell Name	Power(pJ)		
	min	avg	max
LATLSX0P5H7H	0.00135	0.00138	0.00143
	-0.00009	-0.00008	-0.00008
	0.00003	0.00003	0.00003
	0.00039	0.00042	0.00045

LATLSX1H7H



tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Latch

Q = !SN ? 1 : !EN ? D : pre_Q

QN = !Q

Truth Table

INPUT			OUTPUT	
D	GN	SN	Q	QN
0	x	0	1	0
0	0	1	0	1
x	1	1	IQ	IQN
1	0	x	1	0
1	1	0	1	0

Footprint

Cell Name	Area
LATLSX1H7H	8.12000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)	
	D	GN	SN	Q	QN
LATLSX1H7H	0.00123	0.00102	0.00106	0.04980	0.04997

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
LATLSX1H7H	0.00000	0.07455	0.07763

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLSX1H7H	D->Q (RR)	-	0.09977	0.29160	0.75254
	GN->Q (FR)	SN	0.13696	0.32849	0.77662
	SN->Q (FR)	-	0.11286	0.29541	0.72474

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLSX1H7H	D->Q (FF)	-	0.16357	0.34878	0.76960
	GN->Q (FF)	SN	0.18640	0.36742	0.74721
	SN->Q (RF)	-	0.19810	0.37044	0.72642

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLSX1H7H	D->QN (FR)	-	0.24055	0.41642	0.87509
	GN->QN (FR)	SN	0.26353	0.43544	0.86279
	SN->QN (RR)	-	0.27510	0.43808	0.84098

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLSX1H7H	D->QN (RF)	-	0.16224	0.31503	0.68947
	GN->QN (FF)	SN	0.20093	0.35309	0.72025
	SN->QN (FF)	-	0.17040	0.31886	0.67099

Constraint Information

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATLSX1H7H	hold	GN (R)	-0.23143	-0.07968	0.01834
	setup	GN (R)	0.05457	0.12417	0.27926

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATLSX1H7H	hold	GN (R)	-0.29326	-0.08912	0.07967
	setup	GN (R)	-0.02913	0.13660	0.35414

Min Pulse Width (ns) for GN:

Cell Name	High	Low
LATLSX1H7H	-	0.9851

Constraints(ns) for SN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATLSX1H7H	recovery	GN (R)	-0.00024	0.15822	0.32278
	removal	GN (R)	-0.27463	-0.11450	0.04204

Min Pulse Width (ns) for SN:

Cell Name	High	Low
LATLSX1H7H	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLSX1H7H	D	-	0.00135	0.00144	0.00150
	D	-	0.00005	0.00006	0.00006
	D	-	-0.00006	-0.00006	-0.00005
	D	-	0.00190	0.00198	0.00205
	GN	SN	0.00235	0.00245	0.00252
	GN	SN	0.00001	0.00002	0.00002
	GN	SN	-0.00003	-0.00003	-0.00002
	GN	SN	0.00206	0.00215	0.00223
	SN	-	0.00227	0.00236	0.00243
	SN	-	0.00004	0.00006	0.00007
	SN	-	-0.00004	-0.00003	-0.00002
	SN	-	0.00211	0.00220	0.00227

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLSX1H7H	D	-	0.00200	0.00207	0.00215
	D	-	-0.00006	-0.00006	-0.00005
	D	-	0.00005	0.00006	0.00006
	D	-	0.00145	0.00152	0.00159
	GN	SN	0.00266	0.00274	0.00281
	GN	SN	-0.00002	-0.00002	-0.00001
	GN	SN	0.00002	0.00003	0.00003
	GN	SN	0.00225	0.00233	0.00239
	SN	-	0.00213	0.00222	0.00230
	SN	-	-0.00007	-0.00006	-0.00004
	SN	-	0.00004	0.00004	0.00005
	SN	-	0.00225	0.00234	0.00242

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLSX1H7H	D	-	0.00200	0.00207	0.00214
	D	-	-0.00006	-0.00006	-0.00005
	D	-	0.00005	0.00006	0.00006
	D	-	0.00146	0.00152	0.00159
	GN	SN	0.00267	0.00274	0.00281
	GN	SN	-0.00002	-0.00002	-0.00001
	GN	SN	0.00002	0.00003	0.00004
	GN	SN	0.00226	0.00233	0.00239
	SN	-	0.00213	0.00222	0.00230
	SN	-	-0.00006	-0.00006	-0.00006
	SN	-	0.00004	0.00004	0.00005
	SN	-	0.00226	0.00234	0.00242

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLSX1H7H	D	-	0.00135	0.00144	0.00150
	D	-	0.00005	0.00006	0.00006
	D	-	-0.00006	-0.00006	-0.00005
	D	-	0.00190	0.00198	0.00205
	GN	SN	0.00235	0.00245	0.00252
	GN	SN	0.00001	0.00002	0.00002
	GN	SN	-0.00004	-0.00003	-0.00002
	GN	SN	0.00205	0.00215	0.00223
	SN	-	0.00227	0.00236	0.00243
	SN	-	0.00006	0.00006	0.00006
	SN	-	-0.00004	-0.00003	-0.00003
	SN	-	0.00211	0.00220	0.00226

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
LATLSX1H7H	-0.00003	0.00000	0.00004
	0.00008	0.00009	0.00009
	-0.00006	-0.00006	-0.00006
	0.00099	0.00102	0.00106

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
LATLSX1H7H	0.00088	0.00090	0.00094
	-0.00009	-0.00009	-0.00008
	0.00006	0.00006	0.00006
	-0.00014	-0.00012	-0.00009

Passive power(pJ) for GN rising :

Cell Name	Power(pJ)		
	min	avg	max
LATLSX1H7H	0.00105	0.00110	0.00115
	0.00001	0.00001	0.00002
	-0.00001	-0.00000	0.00000
	0.00179	0.00184	0.00190

Passive power(pJ) for GN falling :

Cell Name	Power(pJ)		
	min	avg	max
LATLSX1H7H	0.00196	0.00200	0.00205
	-0.00001	-0.00001	-0.00000
	0.00000	0.00000	0.00001
	0.00123	0.00128	0.00134

Passive power(pJ) for SN rising :

Cell Name	Power(pJ)		
	min	avg	max
LATLSX1H7H	0.00006	0.00009	0.00014
	0.00007	0.00008	0.00008
	-0.00003	-0.00003	-0.00003
	0.00103	0.00106	0.00110

Passive power(pJ) for SN falling :

Cell Name	Power(pJ)		
	min	avg	max
LATLSX1H7H	0.00135	0.00138	0.00143
	-0.00008	-0.00008	-0.00007
	0.00003	0.00003	0.00003
	0.00039	0.00042	0.00045

LATLSX2H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Latch
Q = !SN ? 1 : !EN ? D : pre_Q
QN = !Q

Truth Table

INPUT			OUTPUT	
D	GN	SN	Q	QN
0	x	0	1	0
0	0	1	0	1
x	1	1	IQ	IQN
1	0	x	1	0
1	1	0	1	0

Footprint

Cell Name	Area
LATLSX2H7H	8.12000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)	
	D	GN	SN	Q	QN
LATLSX2H7H	0.00123	0.00104	0.00106	0.05667	0.05681

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
LATLSX2H7H	0.00000	0.08580	0.09079

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLSX2H7H	D->Q (RR)	-	0.09940	0.29225	0.75439
	GN->Q (FR)	SN	0.13802	0.33105	0.78229
	SN->Q (FR)	-	0.11208	0.29529	0.72483

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLSX2H7H	D->Q (FF)	-	0.16357	0.35117	0.77550
	GN->Q (FF)	SN	0.18659	0.37028	0.75412
	SN->Q (RF)	-	0.19821	0.37270	0.73136

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLSX2H7H	D->QN (FR)	-	0.24369	0.41939	0.87795
	GN->QN (FR)	SN	0.26690	0.43892	0.86684
	SN->QN (RR)	-	0.27833	0.44094	0.84312

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLSX2H7H	D->QN (RF)	-	0.16450	0.31819	0.69476
	GN->QN (FF)	SN	0.20448	0.35804	0.72870
	SN->QN (FF)	-	0.17189	0.32121	0.67498

Constraint Information

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATLSX2H7H	hold	GN (R)	-0.23200	-0.07981	0.02001
	setup	GN (R)	0.05489	0.12492	0.28205

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATLSX2H7H	hold	GN (R)	-0.29731	-0.09031	0.07812
	setup	GN (R)	-0.03181	0.13954	0.35935

Min Pulse Width (ns) for GN:

Cell Name	High	Low
LATLSX2H7H	-	0.9851

Constraints(ns) for SN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATLSX2H7H	recovery	GN (R)	-0.00098	0.16130	0.32528
	removal	GN (R)	-0.27725	-0.11510	0.04021

Min Pulse Width (ns) for SN:

Cell Name	High	Low
LATLSX2H7H	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLSX2H7H	D	-	0.00140	0.00150	0.00157
	D	-	0.00005	0.00006	0.00006
	D	-	-0.00006	-0.00006	-0.00005
	D	-	0.00195	0.00204	0.00212
	GN	SN	0.00242	0.00253	0.00261
	GN	SN	0.00001	0.00002	0.00003
	GN	SN	-0.00003	-0.00003	-0.00001
	GN	SN	0.00213	0.00223	0.00231
	SN	-	0.00232	0.00242	0.00249
	SN	-	0.00006	0.00006	0.00007
	SN	-	-0.00004	-0.00003	-0.00002
	SN	-	0.00216	0.00226	0.00233

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLSX2H7H	D	-	0.00206	0.00214	0.00222
	D	-	-0.00006	-0.00006	-0.00005
	D	-	0.00005	0.00006	0.00007
	D	-	0.00150	0.00159	0.00167
	GN	SN	0.00274	0.00282	0.00289
	GN	SN	-0.00003	-0.00002	-0.00001
	GN	SN	0.00001	0.00003	0.00003
	GN	SN	0.00231	0.00241	0.00248
	SN	-	0.00219	0.00229	0.00237
	SN	-	-0.00007	-0.00006	-0.00006
	SN	-	0.00003	0.00004	0.00005
	SN	-	0.00231	0.00240	0.00249

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLSX2H7H	D	-	0.00206	0.00214	0.00221
	D	-	-0.00006	-0.00006	-0.00005
	D	-	0.00005	0.00006	0.00006
	D	-	0.00151	0.00159	0.00167
	GN	SN	0.00274	0.00283	0.00290
	GN	SN	-0.00002	-0.00002	-0.00002
	GN	SN	0.00002	0.00003	0.00003
	GN	SN	0.00233	0.00241	0.00248
	SN	-	0.00219	0.00229	0.00237
	SN	-	-0.00006	-0.00006	-0.00005
	SN	-	0.00004	0.00004	0.00005
	SN	-	0.00232	0.00241	0.00248

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLSX2H7H	D	-	0.00140	0.00150	0.00157
	D	-	0.00005	0.00006	0.00006
	D	-	-0.00006	-0.00006	-0.00005
	D	-	0.00195	0.00204	0.00212
	GN	SN	0.00242	0.00253	0.00261
	GN	SN	0.00002	0.00002	0.00002
	GN	SN	-0.00003	-0.00003	-0.00002
	GN	SN	0.00212	0.00223	0.00231
	SN	-	0.00232	0.00242	0.00249
	SN	-	0.00005	0.00006	0.00006
	SN	-	-0.00004	-0.00003	-0.00002
	SN	-	0.00216	0.00226	0.00233

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
LATLSX2H7H	-0.00003	0.00000	0.00004
	0.00008	0.00009	0.00009
	-0.00006	-0.00006	-0.00006
	0.00099	0.00102	0.00107

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
LATLSX2H7H	0.00088	0.00090	0.00094
	-0.00009	-0.00009	-0.00008
	0.00006	0.00006	0.00006
	-0.00014	-0.00012	-0.00008

Passive power(pJ) for GN rising :

Cell Name	Power(pJ)		
	min	avg	max
LATLSX2H7H	0.00110	0.00115	0.00121
	-0.00001	-0.00000	-0.00000
	0.00002	0.00002	0.00002
	0.00180	0.00185	0.00190

Passive power(pJ) for GN falling :

Cell Name	Power(pJ)		
	min	avg	max
LATLSX2H7H	0.00200	0.00204	0.00210
	0.00000	0.00000	0.00001
	-0.00000	-0.00000	0.00000
	0.00128	0.00132	0.00137

Passive power(pJ) for SN rising :

Cell Name	Power(pJ)		
	min	avg	max
LATLSX2H7H	0.00006	0.00009	0.00014
	0.00008	0.00008	0.00009
	-0.00003	-0.00003	-0.00003
	0.00103	0.00106	0.00110

Passive power(pJ) for SN falling :

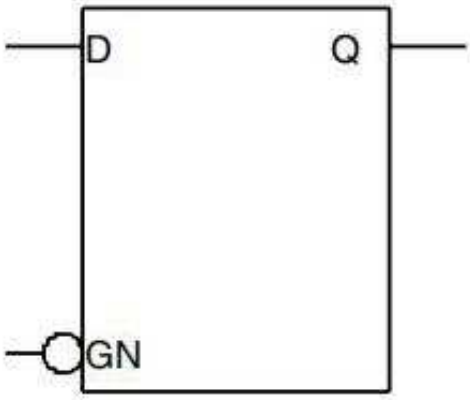
Cell Name	Power(pJ)		
	min	avg	max
LATLSX2H7H	0.00135	0.00138	0.00143
	-0.00009	-0.00008	-0.00008
	0.00003	0.00003	0.00003
	0.00039	0.00042	0.00046

LATLX0P5H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Low Enable Latch
Q = !EN ? D : pre_Q



Truth Table

INPUT		OUTPUT	
D	GN	Q	QN
0	0	0	1
x	1	IQ	IQN
1	0	1	0

Footprint

Cell Name	Area
LATLX0P5H7H	5.32000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)	
	D	GN	Q	QN
LATLX0P5H7H	0.00085	0.00110	0.04299	0.04319

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
LATLX0P5H7H	0.00000	0.05056	0.05056

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLX0P5H7H	D->Q (RR)	!GN	0.09299	0.27860	0.73244
	GN->Q (FR)	-	0.13242	0.32034	0.76910

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLX0P5H7H	D->Q (FF)	!GN	0.11367	0.28098	0.67662
	GN->Q (FF)	-	0.17181	0.33399	0.69460

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLX0P5H7H	D->QN (FR)	!GN	0.16542	0.34271	0.79785
	GN->QN (FR)	-	0.22396	0.39640	0.82551

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLX0P5H7H	D->QN (RF)	!GN	0.13970	0.28716	0.65320
	GN->QN (FF)	-	0.17996	0.32966	0.69513

Constraint Information

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATLX0P5H7H	hold	GN (R)	-0.21898	-0.07085	0.01860
	setup	GN (R)	0.04144	0.10698	0.25847

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATLX0P5H7H	hold	GN (R)	-0.24297	-0.04374	0.12068
	setup	GN (R)	-0.09506	0.07280	0.28641

Min Pulse Width (ns) for GN:

Cell Name	High	Low
LATLX0P5H7H	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLX0P5H7H	D	!GN	0.00116	0.00121	0.00125
	D	!GN	0.00003	0.00004	0.00005
	D	!GN	-0.00004	-0.00003	-0.00002
	D	!GN	0.00154	0.00160	0.00164
	GN	-	0.00215	0.00223	0.00230
	GN	-	0.00003	0.00004	0.00006
	GN	-	-0.00003	-0.00003	-0.00002
	GN	-	0.00185	0.00192	0.00199

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLX0P5H7H	D	!GN	0.00149	0.00155	0.00159
	D	!GN	-0.00005	-0.00004	-0.00003
	D	!GN	0.00002	0.00003	0.00005
	D	!GN	0.00111	0.00116	0.00120
	GN	-	0.00229	0.00235	0.00242
	GN	-	-0.00004	-0.00003	-0.00002
	GN	-	0.00003	0.00003	0.00005
	GN	-	0.00180	0.00187	0.00193

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLX0P5H7H	D	!GN	0.00149	0.00155	0.00159
	D	!GN	-0.00004	-0.00003	-0.00003
	D	!GN	0.00001	0.00003	0.00003
	D	!GN	0.00110	0.00116	0.00121
	GN	-	0.00229	0.00236	0.00242
	GN	-	-0.00004	-0.00003	-0.00002
	GN	-	0.00002	0.00003	0.00004
	GN	-	0.00180	0.00187	0.00193

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLX0P5H7H	D	!GN	0.00116	0.00121	0.00125
	D	!GN	0.00003	0.00003	0.00004
	D	!GN	-0.00003	-0.00003	-0.00001
	D	!GN	0.00154	0.00160	0.00164
	GN	-	0.00215	0.00223	0.00230
	GN	-	0.00004	0.00004	0.00004
	GN	-	-0.00003	-0.00003	-0.00002
	GN	-	0.00185	0.00192	0.00199

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
LATLX0P5H7H	-0.00019	-0.00018	-0.00016
	-0.00003	-0.00003	-0.00003
	0.00001	0.00002	0.00002
	0.00029	0.00029	0.00030

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
LATLX0P5H7H	0.00018	0.00019	0.00019
	0.00003	0.00003	0.00003
	-0.00002	-0.00002	-0.00001
	-0.00029	-0.00028	-0.00028

Passive power(pJ) for GN rising :

Cell Name	Power(pJ)		
	min	avg	max
LATLX0P5H7H	0.00105	0.00110	0.00116
	-0.00001	-0.00000	0.00001
	-0.00000	-0.00000	0.00000
	0.00188	0.00194	0.00200

Passive power(pJ) for GN falling :

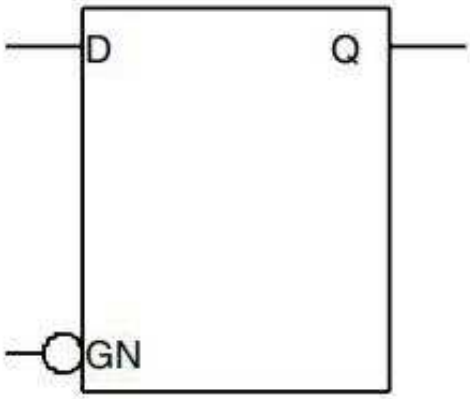
Cell Name	Power(pJ)		
	min	avg	max
LATLX0P5H7H	0.00188	0.00193	0.00199
	0.00001	0.00002	0.00002
	0.00000	0.00000	0.00000
	0.00111	0.00115	0.00122

LATLX1H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Low Enable Latch
Q = !EN ? D : pre_Q



Truth Table

INPUT		OUTPUT	
D	GN	Q	QN
0	0	0	1
x	1	IQ	IQN
1	0	1	0

Footprint

Cell Name	Area
LATLX1H7H	5.60000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)	
	D	GN	Q	QN
LATLX1H7H	0.00085	0.00110	0.05032	0.04981

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
LATLX1H7H	0.00000	0.05698	0.05698

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLX1H7H	D->Q (RR)	!GN	0.09611	0.28326	0.73978
	GN->Q (FR)	-	0.13579	0.32452	0.77339

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLX1H7H	D->Q (FF)	!GN	0.11840	0.28949	0.69270
	GN->Q (FF)	-	0.17593	0.34117	0.70664

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLX1H7H	D->QN (FR)	!GN	0.17168	0.34721	0.79949
	GN->QN (FR)	-	0.22959	0.39955	0.82318

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLX1H7H	D->QN (RF)	!GN	0.14480	0.29314	0.66222
	GN->QN (FF)	-	0.18528	0.33514	0.70131

Constraint Information

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATLX1H7H	hold	GN (R)	-0.22382	-0.07438	0.01759
	setup	GN (R)	0.04366	0.11186	0.26533

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATLX1H7H	hold	GN (R)	-0.25176	-0.04860	0.11723
	setup	GN (R)	-0.09113	0.07986	0.29530

Min Pulse Width (ns) for GN:

Cell Name	High	Low
LATLX1H7H	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLX1H7H	D	!GN	0.00124	0.00130	0.00135
	D	!GN	0.00002	0.00004	0.00005
	D	!GN	-0.00004	-0.00003	-0.00002
	D	!GN	0.00162	0.00169	0.00173
	GN	-	0.00223	0.00231	0.00239
	GN	-	0.00003	0.00004	0.00006
	GN	-	-0.00004	-0.00003	-0.00002
	GN	-	0.00193	0.00201	0.00209

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLX1H7H	D	!GN	0.00158	0.00164	0.00169
	D	!GN	-0.00005	-0.00004	-0.00002
	D	!GN	0.00002	0.00003	0.00004
	D	!GN	0.00119	0.00126	0.00131
	GN	-	0.00237	0.00244	0.00251
	GN	-	-0.00004	-0.00003	-0.00002
	GN	-	0.00002	0.00003	0.00004
	GN	-	0.00189	0.00196	0.00202

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLX1H7H	D	!GN	0.00158	0.00164	0.00169
	D	!GN	-0.00004	-0.00003	-0.00003
	D	!GN	0.00003	0.00003	0.00003
	D	!GN	0.00119	0.00126	0.00131
	GN	-	0.00237	0.00244	0.00251
	GN	-	-0.00003	-0.00003	-0.00003
	GN	-	0.00003	0.00003	0.00003
	GN	-	0.00189	0.00196	0.00203

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLX1H7H	D	!GN	0.00124	0.00130	0.00135
	D	!GN	0.00003	0.00003	0.00004
	D	!GN	-0.00003	-0.00003	-0.00003
	D	!GN	0.00162	0.00169	0.00173
	GN	-	0.00223	0.00231	0.00239
	GN	-	0.00004	0.00004	0.00004
	GN	-	-0.00003	-0.00003	-0.00003
	GN	-	0.00193	0.00201	0.00209

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
LATLX1H7H	-0.00019	-0.00018	-0.00016
	-0.00003	-0.00003	-0.00003
	0.00002	0.00002	0.00002
	0.00028	0.00028	0.00029

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
LATLX1H7H	0.00019	0.00019	0.00019
	0.00003	0.00003	0.00003
	-0.00002	-0.00002	-0.00002
	-0.00028	-0.00028	-0.00026

Passive power(pJ) for GN rising :

Cell Name	Power(pJ)		
	min	avg	max
LATLX1H7H	0.00105	0.00110	0.00116
	-0.00001	-0.00000	0.00000
	-0.00001	-0.00000	0.00000
	0.00188	0.00193	0.00199

Passive power(pJ) for GN falling :

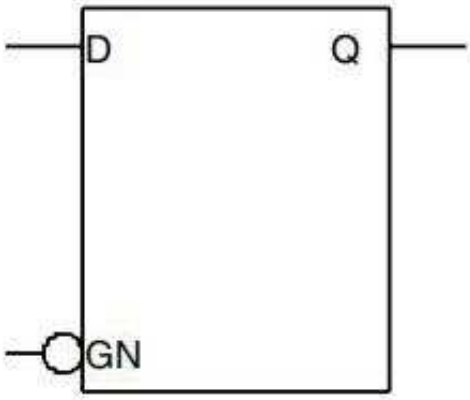
Cell Name	Power(pJ)		
	min	avg	max
LATLX1H7H	0.00187	0.00192	0.00198
	0.00001	0.00002	0.00002
	0.00000	0.00000	0.00001
	0.00111	0.00115	0.00122

LATLX2H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Low Enable Latch
Q = !EN ? D : pre_Q



Truth Table

INPUT		OUTPUT	
D	GN	Q	QN
0	0	0	1
x	1	IQ	IQN
1	0	1	0

Footprint

Cell Name	Area
LATLX2H7H	5.32000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)	
	D	GN	Q	QN
LATLX2H7H	0.00084	0.00111	0.05730	0.05657

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
LATLX2H7H	0.00000	0.06448	0.06448

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLX2H7H	D->Q (RR)	!GN	0.09596	0.28380	0.74111
	GN->Q (FR)	-	0.13632	0.32569	0.77521

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLX2H7H	D->Q (FF)	!GN	0.11848	0.29106	0.69696
	GN->Q (FF)	-	0.17581	0.34252	0.71072

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLX2H7H	D->QN (FR)	!GN	0.17376	0.34863	0.80024
	GN->QN (FR)	-	0.23143	0.40069	0.82339

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLX2H7H	D->QN (RF)	!GN	0.14682	0.29568	0.66637
	GN->QN (FF)	-	0.18800	0.33835	0.70587

Constraint Information

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATLX2H7H	hold	GN (R)	-0.22382	-0.07531	0.01525
	setup	GN (R)	0.04396	0.11388	0.26918

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATLX2H7H	hold	GN (R)	-0.25267	-0.04861	0.11904
	setup	GN (R)	-0.09300	0.08258	0.30025

Min Pulse Width (ns) for GN:

Cell Name	High	Low
LATLX2H7H	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLX2H7H	D	!GN	0.00133	0.00140	0.00145
	D	!GN	0.00002	0.00004	0.00004
	D	!GN	-0.00004	-0.00003	-0.00003
	D	!GN	0.00171	0.00178	0.00183
	GN	-	0.00231	0.00240	0.00248
	GN	-	0.00004	0.00004	0.00005
	GN	-	-0.00003	-0.00003	-0.00002
	GN	-	0.00202	0.00211	0.00219

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLX2H7H	D	!GN	0.00159	0.00166	0.00171
	D	!GN	-0.00004	-0.00003	-0.00002
	D	!GN	0.00003	0.00003	0.00004
	D	!GN	0.00121	0.00128	0.00133
	GN	-	0.00240	0.00248	0.00255
	GN	-	-0.00004	-0.00003	-0.00002
	GN	-	0.00002	0.00003	0.00005
	GN	-	0.00192	0.00200	0.00207

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLX2H7H	D	!GN	0.00159	0.00166	0.00171
	D	!GN	-0.00004	-0.00003	-0.00003
	D	!GN	0.00003	0.00003	0.00004
	D	!GN	0.00121	0.00128	0.00133
	GN	-	0.00240	0.00248	0.00255
	GN	-	-0.00004	-0.00003	-0.00002
	GN	-	0.00002	0.00003	0.00004
	GN	-	0.00192	0.00200	0.00207

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLX2H7H	D	!GN	0.00133	0.00140	0.00145
	D	!GN	0.00003	0.00003	0.00004
	D	!GN	-0.00004	-0.00003	-0.00003
	D	!GN	0.00171	0.00178	0.00183
	GN	-	0.00231	0.00240	0.00248
	GN	-	0.00004	0.00004	0.00005
	GN	-	-0.00003	-0.00003	-0.00002
	GN	-	0.00202	0.00211	0.00219

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
LATLX2H7H	-0.00019	-0.00019	-0.00017
	-0.00003	-0.00003	-0.00003
	0.00001	0.00002	0.00002
	0.00027	0.00027	0.00028

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
LATLX2H7H	0.00019	0.00019	0.00019
	0.00003	0.00003	0.00003
	-0.00002	-0.00002	-0.00001
	-0.00027	-0.00026	-0.00025

Passive power(pJ) for GN rising :

Cell Name	Power(pJ)		
	min	avg	max
LATLX2H7H	0.00108	0.00113	0.00119
	-0.00001	-0.00000	0.00001
	-0.00000	-0.00000	0.00000
	0.00189	0.00194	0.00201

Passive power(pJ) for GN falling :

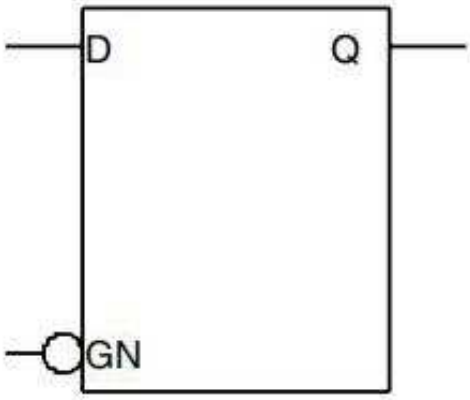
Cell Name	Power(pJ)		
	min	avg	max
LATLX2H7H	0.00190	0.00195	0.00202
	0.00001	0.00002	0.00002
	0.00000	0.00000	0.00001
	0.00114	0.00119	0.00126

LATLX3H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Low Enable Latch
Q = !EN ? D : pre_Q



Truth Table

INPUT		OUTPUT	
D	GN	Q	QN
0	0	0	1
x	1	IQ	IQN
1	0	1	0

Footprint

Cell Name	Area
LATLX3H7H	5.60000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)	
	D	GN	Q	QN
LATLX3H7H	0.00094	0.00110	0.09084	0.09013

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
LATLX3H7H	0.00000	0.07563	0.07563

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLX3H7H	D->Q (RR)	!GN	0.09435	0.28633	0.75060
	GN->Q (FR)	-	0.13640	0.32959	0.78492

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLX3H7H	D->Q (FF)	!GN	0.11614	0.29269	0.70399
	GN->Q (FF)	-	0.17294	0.34344	0.71580

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLX3H7H	D->QN (FR)	!GN	0.18635	0.36319	0.82149
	GN->QN (FR)	-	0.24342	0.41403	0.84104

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLX3H7H	D->QN (RF)	!GN	0.15968	0.31140	0.68839
	GN->QN (FF)	-	0.20242	0.35496	0.72674

Constraint Information

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATLX3H7H	hold	GN (R)	-0.23382	-0.07771	0.01573
	setup	GN (R)	0.04783	0.12294	0.28782

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATLX3H7H	hold	GN (R)	-0.25819	-0.04879	0.12294
	setup	GN (R)	-0.08440	0.09342	0.31838

Min Pulse Width (ns) for GN:

Cell Name	High	Low
LATLX3H7H	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLX3H7H	D	!GN	0.00163	0.00173	0.00179
	D	!GN	0.00003	0.00005	0.00006
	D	!GN	-0.00005	-0.00004	-0.00002
	D	!GN	0.00207	0.00216	0.00223
	GN	-	0.00266	0.00278	0.00287
	GN	-	0.00004	0.00006	0.00007
	GN	-	-0.00006	-0.00004	-0.00002
	GN	-	0.00239	0.00250	0.00260

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLX3H7H	D	!GN	0.00201	0.00209	0.00216
	D	!GN	-0.00006	-0.00005	-0.00003
	D	!GN	0.00002	0.00004	0.00005
	D	!GN	0.00157	0.00166	0.00173
	GN	-	0.00281	0.00291	0.00299
	GN	-	-0.00005	-0.00003	-0.00001
	GN	-	0.00002	0.00004	0.00006
	GN	-	0.00232	0.00242	0.00250

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLX3H7H	D	!GN	0.00201	0.00210	0.00217
	D	!GN	-0.00005	-0.00005	-0.00003
	D	!GN	0.00004	0.00004	0.00005
	D	!GN	0.00157	0.00166	0.00173
	GN	-	0.00281	0.00291	0.00299
	GN	-	-0.00003	-0.00003	-0.00003
	GN	-	0.00004	0.00004	0.00004
	GN	-	0.00232	0.00242	0.00250

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLX3H7H	D	!GN	0.00163	0.00172	0.00179
	D	!GN	0.00003	0.00005	0.00005
	D	!GN	-0.00005	-0.00004	-0.00004
	D	!GN	0.00207	0.00216	0.00222
	GN	-	0.00267	0.00278	0.00287
	GN	-	0.00006	0.00006	0.00007
	GN	-	-0.00004	-0.00004	-0.00004
	GN	-	0.00239	0.00250	0.00260

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
LATLX3H7H	-0.00021	-0.00020	-0.00018
	-0.00003	-0.00003	-0.00003
	0.00002	0.00002	0.00002
	0.00030	0.00030	0.00031

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
LATLX3H7H	0.00021	0.00021	0.00022
	0.00003	0.00003	0.00003
	-0.00002	-0.00002	-0.00002
	-0.00030	-0.00029	-0.00029

Passive power(pJ) for GN rising :

Cell Name	Power(pJ)		
	min	avg	max
LATLX3H7H	0.00112	0.00117	0.00123
	-0.00002	-0.00001	-0.00001
	-0.00000	-0.00000	0.00000
	0.00193	0.00198	0.00204

Passive power(pJ) for GN falling :

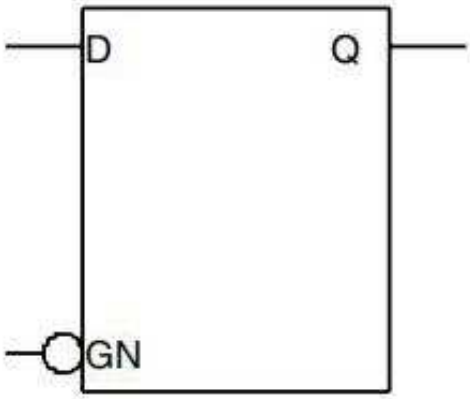
Cell Name	Power(pJ)		
	min	avg	max
LATLX3H7H	0.00199	0.00203	0.00209
	0.00003	0.00003	0.00003
	0.00000	0.00000	0.00000
	0.00124	0.00129	0.00135

LATLX4H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Low Enable Latch
Q = !EN ? D : pre_Q



Truth Table

INPUT		OUTPUT	
D	GN	Q	QN
0	0	0	1
x	1	IQ	IQN
1	0	1	0

Footprint

Cell Name	Area
LATLX4H7H	5.60000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)	
	D	GN	Q	QN
LATLX4H7H	0.00094	0.00111	0.11373	0.11455

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
LATLX4H7H	0.00000	0.10076	0.10076

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLX4H7H	D->Q (RR)	!GN	0.09594	0.28920	0.75494
	GN->Q (FR)	-	0.13737	0.33106	0.78486

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLX4H7H	D->Q (FF)	!GN	0.11893	0.29764	0.71178
	GN->Q (FF)	-	0.17511	0.34716	0.72015

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLX4H7H	D->QN (FR)	!GN	0.19706	0.37448	0.83596
	GN->QN (FR)	-	0.25349	0.42401	0.85224

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLX4H7H	D->QN (RF)	!GN	0.16866	0.32241	0.70419
	GN->QN (FF)	-	0.21074	0.36454	0.73864

Constraint Information

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATLX4H7H	hold	GN (R)	-0.23619	-0.08050	0.00953
	setup	GN (R)	0.05607	0.12932	0.30033

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATLX4H7H	hold	GN (R)	-0.25976	-0.05105	0.11900
	setup	GN (R)	-0.07897	0.10380	0.33019

Min Pulse Width (ns) for GN:

Cell Name	High	Low
LATLX4H7H	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLX4H7H	D	!GN	0.00183	0.00194	0.00203
	D	!GN	0.00003	0.00005	0.00009
	D	!GN	-0.00005	-0.00004	-0.00002
	D	!GN	0.00226	0.00237	0.00246
	GN	-	0.00284	0.00298	0.00309
	GN	-	0.00003	0.00006	0.00008
	GN	-	-0.00004	-0.00004	-0.00002
	GN	-	0.00257	0.00271	0.00282

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLX4H7H	D	!GN	0.00217	0.00228	0.00237
	D	!GN	-0.00006	-0.00005	-0.00003
	D	!GN	0.00002	0.00004	0.00006
	D	!GN	0.00174	0.00184	0.00193
	GN	-	0.00297	0.00308	0.00319
	GN	-	-0.00004	-0.00003	-0.00001
	GN	-	0.00002	0.00004	0.00007
	GN	-	0.00247	0.00260	0.00269

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLX4H7H	D	!GN	0.00217	0.00228	0.00237
	D	!GN	-0.00006	-0.00005	-0.00004
	D	!GN	0.00004	0.00004	0.00004
	D	!GN	0.00174	0.00184	0.00193
	GN	-	0.00297	0.00309	0.00319
	GN	-	-0.00006	-0.00003	-0.00001
	GN	-	0.00002	0.00004	0.00005
	GN	-	0.00248	0.00260	0.00269

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLX4H7H	D	!GN	0.00183	0.00194	0.00203
	D	!GN	0.00004	0.00005	0.00006
	D	!GN	-0.00004	-0.00004	-0.00004
	D	!GN	0.00226	0.00237	0.00246
	GN	-	0.00285	0.00298	0.00309
	GN	-	0.00005	0.00006	0.00007
	GN	-	-0.00004	-0.00004	-0.00002
	GN	-	0.00257	0.00271	0.00282

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
LATLX4H7H	-0.00021	-0.00020	-0.00019
	-0.00003	-0.00003	-0.00003
	0.00002	0.00002	0.00002
	0.00030	0.00030	0.00031

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
LATLX4H7H	0.00021	0.00021	0.00022
	0.00003	0.00003	0.00003
	-0.00002	-0.00002	-0.00002
	-0.00030	-0.00029	-0.00029

Passive power(pJ) for GN rising :

Cell Name	Power(pJ)		
	min	avg	max
LATLX4H7H	0.00110	0.00115	0.00120
	-0.00002	-0.00001	-0.00001
	-0.00000	-0.00000	0.00000
	0.00191	0.00196	0.00201

Passive power(pJ) for GN falling :

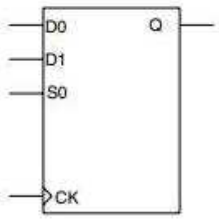
Cell Name	Power(pJ)		
	min	avg	max
LATLX4H7H	0.00196	0.00201	0.00206
	0.00002	0.00003	0.00004
	0.00000	0.00000	0.00000
	0.00122	0.00126	0.00132

MDFFQX0P5H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The MDFFQ cell is a positive edge-triggered, static D-type flip-flop with a 2-to-1 data-select control (S0) for the data inputs (D1, D0). The cell has a single output (Q).



Truth Table

INPUT				OUTPUT
CK	D0	D1	S0	Q
R	0	0	x	0
R	0	1	0	0
R	x	1	1	1
R	1	x	0	1
R	1	0	1	0
x	x	x	x	IQ

Footprint

Cell Name	Area
MDFFQX0P5H7H	8.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	CK	D0	D1	S0	Q
MDFFQX0P5H7H	0.00099	0.00084	0.00092	0.00224	0.04275

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
MDFFQX0P5H7H	0.00000	0.08234	0.09014

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MDFFQX0P5H7H	CK->Q (RR)	(D1 * !S0)	0.17409	0.35909	0.79856
	CK->Q (RR)	(D0 * S0)	0.17409	0.35908	0.79838
	CK->Q (RR)	(!D1 * !S0)	0.17406	0.35909	0.79857
	CK->Q (RR)	(!D0 * S0)	0.17409	0.35908	0.79838

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MDFFQX0P5H7H	CK->Q (RF)	(D1 * !S0)	0.13465	0.29706	0.66370
	CK->Q (RF)	(D0 * S0)	0.13458	0.29706	0.66371
	CK->Q (RF)	(!D1 * !S0)	0.13465	0.29706	0.66370
	CK->Q (RF)	(!D0 * S0)	0.13466	0.29706	0.66371

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
MDFFQX0P5H7H	0.9851	0.9851

Constraints(ns) for D0 rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
MDFFQX0P5H7H	**hold**	**CK (R)**	-0.27045	-0.10783	-0.00655
	setup	**CK (R)**	0.02782	0.12908	0.30118

Constraints(ns) for D0 falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
MDFFQX0P5H7H	**hold**	**CK (R)**	-0.31026	-0.08846	0.10869
	setup	**CK (R)**	-0.04501	0.14915	0.37330

Constraints(ns) for D1 rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
MDFFQX0P5H7H	**hold**	**CK (R)**	-0.26965	-0.10782	-0.00889
	setup	**CK (R)**	0.02382	0.12867	0.30118

Constraints(ns) for D1 falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
MDFFQX0P5H7H	**hold**	**CK (R)**	-0.31189	-0.09087	0.10291
	setup	**CK (R)**	-0.04275	0.15146	0.37509

Constraints(ns) for S0 rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
MDFFQX0P5H7H	hold	CK (R)	-0.22801	-0.07058	0.08883
	setup	CK (R)	0.01341	0.15629	0.30912

Constraints(ns) for S0 falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
MDFFQX0P5H7H	hold	CK (R)	-0.26615	-0.06702	0.12393
	setup	CK (R)	0.05149	0.15684	0.34377

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MDFFQX0P5H7H	CK	(D1 * !S0)	0.00362	0.00370	0.00379
	CK	(D1 * !S0)	0.00007	0.00008	0.00008
	CK	(D1 * !S0)	-0.00007	-0.00004	-0.00001
	CK	(D1 * !S0)	0.00440	0.00449	0.00458
	CK	(D0 * S0)	0.00362	0.00371	0.00380
	CK	(D0 * S0)	0.00004	0.00008	0.00008
	CK	(D0 * S0)	-0.00007	-0.00004	-0.00002
	CK	(D0 * S0)	0.00441	0.00450	0.00459
	CK	(!D1 * !S0)	0.00362	0.00370	0.00379
	CK	(!D1 * !S0)	0.00004	0.00008	0.00009
	CK	(!D1 * !S0)	-0.00006	-0.00004	-0.00001
	CK	(!D1 * !S0)	0.00440	0.00449	0.00460
	CK	(!D0 * S0)	0.00362	0.00371	0.00380
	CK	(!D0 * S0)	0.00007	0.00008	0.00008
	CK	(!D0 * S0)	-0.00007	-0.00004	-0.00002
	CK	(!D0 * S0)	0.00441	0.00450	0.00460

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MDFFQX0P5H7H	CK	(D1 * !S0)	0.00364	0.00375	0.00387
	CK	(D1 * !S0)	-0.00005	-0.00004	-0.00002
	CK	(D1 * !S0)	0.00007	0.00007	0.00007
	CK	(D1 * !S0)	0.00420	0.00432	0.00443
	CK	(D0 * S0)	0.00365	0.00376	0.00387
	CK	(D0 * S0)	-0.00006	-0.00004	-0.00003
	CK	(D0 * S0)	0.00007	0.00007	0.00007
	CK	(D0 * S0)	0.00421	0.00432	0.00443
	CK	(!D1 * !S0)	0.00364	0.00375	0.00386
	CK	(!D1 * !S0)	-0.00005	-0.00004	-0.00002
	CK	(!D1 * !S0)	0.00007	0.00007	0.00007
	CK	(!D1 * !S0)	0.00420	0.00432	0.00443
	CK	(!D0 * S0)	0.00365	0.00376	0.00387
	CK	(!D0 * S0)	-0.00006	-0.00004	-0.00003
	CK	(!D0 * S0)	0.00007	0.00007	0.00007
	CK	(!D0 * S0)	0.00421	0.00432	0.00443

Passive power(pJ) for CK rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

MDFFQX0P5H7H	**(D0 * D1 * S0)**	0.00162	0.00167	0.00171
	(D0 * D1 * S0)	0.00002	0.00002	0.00003
	(D0 * D1 * S0)	0.00000	0.00000	0.00001
	(D0 * D1 * S0)	0.00232	0.00236	0.00242
	(D0 * D1 * !S0)	0.00161	0.00166	0.00170
	(D0 * D1 * !S0)	0.00002	0.00003	0.00003
	(D0 * D1 * !S0)	0.00000	0.00000	0.00001
	(D0 * D1 * !S0)	0.00231	0.00235	0.00241
	(D0 * !D1 * S0)	0.00184	0.00189	0.00194
	(D0 * !D1 * S0)	0.00000	0.00000	0.00001
	(D0 * !D1 * S0)	0.00002	0.00002	0.00004
	(D0 * !D1 * S0)	0.00249	0.00253	0.00259
	(D0 * !D1 * !S0)	0.00161	0.00166	0.00170
	(D0 * !D1 * !S0)	0.00002	0.00003	0.00003
	(D0 * !D1 * !S0)	0.00000	0.00000	0.00001
	(D0 * !D1 * !S0)	0.00231	0.00235	0.00241
	(!D0 * D1 * S0)	0.00162	0.00167	0.00171
	(!D0 * D1 * S0)	0.00002	0.00002	0.00003
	(!D0 * D1 * S0)	0.00000	0.00000	0.00001
	(!D0 * D1 * S0)	0.00232	0.00236	0.00242
	(!D0 * D1 * !S0)	0.00184	0.00188	0.00193
	(!D0 * D1 * !S0)	0.00000	0.00000	0.00001
	(!D0 * D1 * !S0)	0.00002	0.00003	0.00003
	(!D0 * D1 * !S0)	0.00248	0.00253	0.00258
	(!D0 * !D1 * S0)	0.00184	0.00189	0.00194
	(!D0 * !D1 * S0)	0.00000	0.00000	0.00001
	(!D0 * !D1 * S0)	0.00002	0.00002	0.00003
	(!D0 * !D1 * S0)	0.00249	0.00253	0.00259
	(!D0 * !D1 * !S0)	0.00184	0.00188	0.00193
	(!D0 * !D1 * !S0)	0.00000	0.00000	0.00001
	(!D0 * !D1 * !S0)	0.00002	0.00003	0.00003
	(!D0 * !D1 * !S0)	0.00248	0.00253	0.00258

Passive power(pJ) for CK falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

MDFFQX0P5H7H	**(D0 * D1 * S0)**	0.00409	0.00415	0.00422
	(D0 * D1 * S0)	-0.00002	-0.00001	-0.00000
	(D0 * D1 * S0)	-0.00001	-0.00000	0.00000
	(D0 * D1 * S0)	0.00351	0.00357	0.00364
	(D0 * D1 * !S0)	0.00409	0.00415	0.00423
	(D0 * D1 * !S0)	-0.00002	-0.00001	-0.00000
	(D0 * D1 * !S0)	-0.00001	-0.00000	0.00000
	(D0 * D1 * !S0)	0.00351	0.00358	0.00365
	(D0 * !D1 * S0)	0.00413	0.00417	0.00421
	(D0 * !D1 * S0)	-0.00001	-0.00000	0.00000
	(D0 * !D1 * S0)	-0.00000	0.00000	0.00001
	(D0 * !D1 * S0)	0.00334	0.00337	0.00341
	(D0 * !D1 * !S0)	0.00409	0.00415	0.00422
	(D0 * !D1 * !S0)	-0.00002	-0.00001	-0.00000
	(D0 * !D1 * !S0)	-0.00001	-0.00000	0.00000
	(D0 * !D1 * !S0)	0.00351	0.00358	0.00365
	(!D0 * D1 * S0)	0.00409	0.00415	0.00422
	(!D0 * D1 * S0)	-0.00002	-0.00001	-0.00000
	(!D0 * D1 * S0)	-0.00001	-0.00000	0.00000
	(!D0 * D1 * S0)	0.00351	0.00357	0.00364
	(!D0 * D1 * !S0)	0.00414	0.00417	0.00420
	(!D0 * D1 * !S0)	-0.00001	-0.00000	0.00000
	(!D0 * D1 * !S0)	-0.00001	0.00000	0.00001
	(!D0 * D1 * !S0)	0.00334	0.00338	0.00343
	(!D0 * !D1 * S0)	0.00413	0.00417	0.00421
	(!D0 * !D1 * S0)	-0.00001	-0.00000	0.00000
	(!D0 * !D1 * S0)	-0.00000	0.00000	0.00001
	(!D0 * !D1 * S0)	0.00334	0.00337	0.00341
	(!D0 * !D1 * !S0)	0.00414	0.00417	0.00421
	(!D0 * !D1 * !S0)	-0.00001	-0.00000	0.00000
	(!D0 * !D1 * !S0)	-0.00001	0.00000	0.00001
	(!D0 * !D1 * !S0)	0.00334	0.00338	0.00343

Passive power(pJ) for D0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

MDFFQX0P5H7H	**(CK * D1 * S0)**	-0.00012	-0.00011	-0.00010
	(CK * D1 * S0)	-0.00003	-0.00003	-0.00002
	(CK * D1 * S0)	0.00002	0.00002	0.00002
	(CK * D1 * S0)	0.00028	0.00028	0.00029
	(CK * D1 * !S0)	0.00015	0.00016	0.00018
	(CK * D1 * !S0)	0.00017	0.00018	0.00018
	(CK * D1 * !S0)	-0.00015	-0.00014	-0.00014
	(CK * D1 * !S0)	0.00133	0.00135	0.00137
	(CK * !D1 * S0)	-0.00012	-0.00011	-0.00010
	(CK * !D1 * S0)	-0.00003	-0.00003	-0.00002
	(CK * !D1 * S0)	0.00002	0.00002	0.00002
	(CK * !D1 * S0)	0.00029	0.00029	0.00029
	(CK * !D1 * !S0)	0.00015	0.00016	0.00018
	(CK * !D1 * !S0)	0.00017	0.00018	0.00018
	(CK * !D1 * !S0)	-0.00015	-0.00014	-0.00014
	(CK * !D1 * !S0)	0.00133	0.00135	0.00137
	(!CK * D1 * S0)	-0.00012	-0.00011	-0.00009
	(!CK * D1 * S0)	-0.00003	-0.00003	-0.00003
	(!CK * D1 * S0)	0.00002	0.00002	0.00002
	(!CK * D1 * S0)	0.00028	0.00028	0.00028
	(!CK * D1 * !S0)	0.00188	0.00189	0.00191
	(!CK * D1 * !S0)	0.00017	0.00017	0.00018
	(!CK * D1 * !S0)	-0.00014	-0.00014	-0.00014
	(!CK * D1 * !S0)	0.00305	0.00307	0.00308
	(!CK * !D1 * S0)	-0.00012	-0.00011	-0.00010
	(!CK * !D1 * S0)	-0.00003	-0.00003	-0.00003
	(!CK * !D1 * S0)	0.00002	0.00002	0.00002
	(!CK * !D1 * S0)	0.00028	0.00029	0.00029
	(!CK * !D1 * !S0)	0.00188	0.00189	0.00192
	(!CK * !D1 * !S0)	0.00016	0.00017	0.00017
	(!CK * !D1 * !S0)	-0.00014	-0.00014	-0.00013
	(!CK * !D1 * !S0)	0.00305	0.00308	0.00310

Passive power(pJ) for D0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

MDFFQX0P5H7H	**(CK * D1 * S0)**	0.00012	0.00012	0.00012
	(CK * D1 * S0)	0.00002	0.00003	0.00003
	(CK * D1 * S0)	-0.00002	-0.00002	-0.00002
	(CK * D1 * S0)	-0.00028	-0.00028	-0.00026
	(CK * D1 * !S0)	0.00142	0.00143	0.00145
	(CK * D1 * !S0)	-0.00018	-0.00018	-0.00017
	(CK * D1 * !S0)	0.00014	0.00014	0.00015
	(CK * D1 * !S0)	0.00023	0.00024	0.00025
	(CK * !D1 * S0)	0.00012	0.00013	0.00013
	(CK * !D1 * S0)	0.00002	0.00003	0.00003
	(CK * !D1 * S0)	-0.00002	-0.00002	-0.00002
	(CK * !D1 * S0)	-0.00028	-0.00028	-0.00026
	(CK * !D1 * !S0)	0.00142	0.00143	0.00144
	(CK * !D1 * !S0)	-0.00018	-0.00018	-0.00017
	(CK * !D1 * !S0)	0.00014	0.00014	0.00015
	(CK * !D1 * !S0)	0.00023	0.00024	0.00025
	(!CK * D1 * S0)	0.00012	0.00012	0.00012
	(!CK * D1 * S0)	0.00003	0.00003	0.00003
	(!CK * D1 * S0)	-0.00002	-0.00002	-0.00002
	(!CK * D1 * S0)	-0.00028	-0.00028	-0.00027
	(!CK * D1 * !S0)	0.00244	0.00246	0.00248
	(!CK * D1 * !S0)	-0.00017	-0.00017	-0.00017
	(!CK * D1 * !S0)	0.00014	0.00014	0.00015
	(!CK * D1 * !S0)	0.00127	0.00128	0.00130
	(!CK * !D1 * S0)	0.00012	0.00012	0.00013
	(!CK * !D1 * S0)	0.00003	0.00003	0.00003
	(!CK * !D1 * S0)	-0.00002	-0.00002	-0.00002
	(!CK * !D1 * S0)	-0.00028	-0.00028	-0.00026
	(!CK * !D1 * !S0)	0.00244	0.00246	0.00248
	(!CK * !D1 * !S0)	-0.00017	-0.00017	-0.00016
	(!CK * !D1 * !S0)	0.00013	0.00014	0.00014
	(!CK * !D1 * !S0)	0.00127	0.00128	0.00131

Passive power(pJ) for D1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

MDFFQX0P5H7H	**(CK * D0 * S0)**	-0.00007	-0.00006	-0.00004
	(CK * D0 * S0)	0.00018	0.00018	0.00020
	(CK * D0 * S0)	-0.00014	-0.00014	-0.00013
	(CK * D0 * S0)	0.00115	0.00117	0.00118
	(CK * D0 * !S0)	-0.00016	-0.00016	-0.00014
	(CK * D0 * !S0)	-0.00003	-0.00003	-0.00003
	(CK * D0 * !S0)	0.00002	0.00002	0.00002
	(CK * D0 * !S0)	0.00027	0.00027	0.00027
	(CK * !D0 * S0)	-0.00007	-0.00006	-0.00004
	(CK * !D0 * S0)	0.00018	0.00018	0.00020
	(CK * !D0 * S0)	-0.00014	-0.00014	-0.00014
	(CK * !D0 * S0)	0.00115	0.00117	0.00118
	(CK * !D0 * !S0)	-0.00020	-0.00019	-0.00018
	(CK * !D0 * !S0)	-0.00003	-0.00003	-0.00003
	(CK * !D0 * !S0)	0.00002	0.00002	0.00002
	(CK * !D0 * !S0)	0.00024	0.00024	0.00024
	(!CK * D0 * S0)	0.00165	0.00168	0.00170
	(!CK * D0 * S0)	0.00017	0.00017	0.00017
	(!CK * D0 * S0)	-0.00014	-0.00014	-0.00013
	(!CK * D0 * S0)	0.00287	0.00290	0.00293
	(!CK * D0 * !S0)	-0.00016	-0.00016	-0.00014
	(!CK * D0 * !S0)	-0.00003	-0.00003	-0.00003
	(!CK * D0 * !S0)	0.00001	0.00002	0.00002
	(!CK * D0 * !S0)	0.00027	0.00027	0.00028
	(!CK * !D0 * S0)	0.00165	0.00168	0.00170
	(!CK * !D0 * S0)	0.00017	0.00017	0.00018
	(!CK * !D0 * S0)	-0.00014	-0.00014	-0.00014
	(!CK * !D0 * S0)	0.00287	0.00289	0.00291
	(!CK * !D0 * !S0)	-0.00020	-0.00019	-0.00018
	(!CK * !D0 * !S0)	-0.00003	-0.00003	-0.00003
	(!CK * !D0 * !S0)	0.00001	0.00002	0.00002
	(!CK * !D0 * !S0)	0.00023	0.00024	0.00024

Passive power(pJ) for D1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

MDFFQX0P5H7H	**(CK * D0 * S0)**	0.00164	0.00166	0.00168
	(CK * D0 * S0)	-0.00018	-0.00018	-0.00017
	(CK * D0 * S0)	0.00014	0.00014	0.00014
	(CK * D0 * S0)	0.00043	0.00044	0.00047
	(CK * D0 * !S0)	0.00016	0.00016	0.00016
	(CK * D0 * !S0)	0.00003	0.00003	0.00003
	(CK * D0 * !S0)	-0.00002	-0.00002	-0.00002
	(CK * D0 * !S0)	-0.00027	-0.00026	-0.00025
	(CK * !D0 * S0)	0.00164	0.00166	0.00168
	(CK * !D0 * S0)	-0.00018	-0.00018	-0.00017
	(CK * !D0 * S0)	0.00014	0.00014	0.00014
	(CK * !D0 * S0)	0.00043	0.00044	0.00047
	(CK * !D0 * !S0)	0.00020	0.00020	0.00021
	(CK * !D0 * !S0)	0.00003	0.00003	0.00003
	(CK * !D0 * !S0)	-0.00002	-0.00002	-0.00002
	(CK * !D0 * !S0)	-0.00024	-0.00023	-0.00021
	(!CK * D0 * S0)	0.00267	0.00270	0.00273
	(!CK * D0 * S0)	-0.00017	-0.00017	-0.00017
	(!CK * D0 * S0)	0.00013	0.00014	0.00014
	(!CK * D0 * S0)	0.00146	0.00149	0.00152
	(!CK * D0 * !S0)	0.00016	0.00016	0.00016
	(!CK * D0 * !S0)	0.00003	0.00003	0.00003
	(!CK * D0 * !S0)	-0.00002	-0.00002	-0.00001
	(!CK * D0 * !S0)	-0.00027	-0.00027	-0.00026
	(!CK * !D0 * S0)	0.00267	0.00270	0.00273
	(!CK * !D0 * S0)	-0.00018	-0.00017	-0.00017
	(!CK * !D0 * S0)	0.00014	0.00014	0.00014
	(!CK * !D0 * S0)	0.00146	0.00148	0.00151
	(!CK * !D0 * !S0)	0.00020	0.00020	0.00021
	(!CK * !D0 * !S0)	0.00003	0.00003	0.00003
	(!CK * !D0 * !S0)	-0.00002	-0.00002	-0.00001
	(!CK * !D0 * !S0)	-0.00024	-0.00022	-0.00020

Passive power(pJ) for S0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

MDFFQX0P5H7H	**(CK * D0 * D1)**	-0.00018	-0.00015	-0.00011
	(CK * D0 * D1)	0.00003	0.00003	0.00004
	(CK * D0 * D1)	-0.00003	-0.00002	-0.00001
	(CK * D0 * D1)	0.00126	0.00128	0.00132
	(CK * D0 * !D1)	0.00120	0.00126	0.00134
	(CK * D0 * !D1)	-0.00013	-0.00013	-0.00012
	(CK * D0 * !D1)	0.00008	0.00009	0.00011
	(CK * D0 * !D1)	0.00202	0.00208	0.00215
	(CK * !D0 * D1)	-0.00029	-0.00023	-0.00015
	(CK * !D0 * D1)	0.00019	0.00019	0.00020
	(CK * !D0 * D1)	-0.00015	-0.00015	-0.00013
	(CK * !D0 * D1)	0.00178	0.00183	0.00189
	(CK * !D0 * !D1)	-0.00018	-0.00015	-0.00010
	(CK * !D0 * !D1)	0.00002	0.00003	0.00003
	(CK * !D0 * !D1)	-0.00004	-0.00003	-0.00003
	(CK * !D0 * !D1)	0.00126	0.00129	0.00135
	(!CK * D0 * D1)	-0.00019	-0.00015	-0.00011
	(!CK * D0 * D1)	0.00003	0.00003	0.00004
	(!CK * D0 * D1)	-0.00003	-0.00002	-0.00000
	(!CK * D0 * D1)	0.00126	0.00128	0.00131
	(!CK * D0 * !D1)	0.00223	0.00227	0.00232
	(!CK * D0 * !D1)	-0.00012	-0.00011	-0.00011
	(!CK * D0 * !D1)	0.00007	0.00009	0.00011
	(!CK * D0 * !D1)	0.00306	0.00310	0.00315
	(!CK * !D0 * D1)	0.00145	0.00151	0.00158
	(!CK * !D0 * D1)	0.00018	0.00018	0.00019
	(!CK * !D0 * D1)	-0.00016	-0.00015	-0.00014
	(!CK * !D0 * D1)	0.00351	0.00357	0.00366
	(!CK * !D0 * !D1)	-0.00018	-0.00015	-0.00010
	(!CK * !D0 * !D1)	0.00002	0.00003	0.00003
	(!CK * !D0 * !D1)	-0.00003	-0.00003	-0.00002
	(!CK * !D0 * !D1)	0.00126	0.00129	0.00132

Passive power(pJ) for S0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

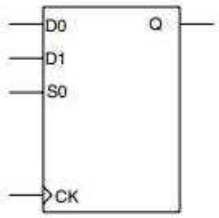
MDFFQX0P5H7H	**(CK * D0 * D1)**	0.00132	0.00135	0.00140
	(CK * D0 * D1)	-0.00003	-0.00003	-0.00003
	(CK * D0 * D1)	0.00002	0.00003	0.00003
	(CK * D0 * D1)	-0.00012	-0.00009	-0.00005
	(CK * D0 * !D1)	0.00173	0.00177	0.00181
	(CK * D0 * !D1)	0.00012	0.00013	0.00013
	(CK * D0 * !D1)	-0.00009	-0.00009	-0.00008
	(CK * D0 * !D1)	0.00090	0.00094	0.00101
	(CK * !D0 * D1)	0.00219	0.00225	0.00233
	(CK * !D0 * D1)	-0.00020	-0.00019	-0.00019
	(CK * !D0 * D1)	0.00015	0.00015	0.00016
	(CK * !D0 * D1)	0.00013	0.00018	0.00026
	(CK * !D0 * !D1)	0.00131	0.00134	0.00138
	(CK * !D0 * !D1)	-0.00003	-0.00003	-0.00001
	(CK * !D0 * !D1)	0.00003	0.00003	0.00004
	(CK * !D0 * !D1)	-0.00013	-0.00010	-0.00006
	(!CK * D0 * D1)	0.00132	0.00135	0.00139
	(!CK * D0 * D1)	-0.00003	-0.00003	-0.00003
	(!CK * D0 * D1)	0.00002	0.00003	0.00003
	(!CK * D0 * D1)	-0.00012	-0.00009	-0.00003
	(!CK * D0 * !D1)	0.00345	0.00347	0.00350
	(!CK * D0 * !D1)	0.00011	0.00011	0.00012
	(!CK * D0 * !D1)	-0.00011	-0.00009	-0.00007
	(!CK * D0 * !D1)	0.00261	0.00264	0.00268
	(!CK * !D0 * D1)	0.00324	0.00330	0.00338
	(!CK * !D0 * D1)	-0.00019	-0.00018	-0.00018
	(!CK * !D0 * D1)	0.00014	0.00015	0.00016
	(!CK * !D0 * D1)	0.00118	0.00124	0.00133
	(!CK * !D0 * !D1)	0.00131	0.00134	0.00139
	(!CK * !D0 * !D1)	-0.00003	-0.00003	-0.00002
	(!CK * !D0 * !D1)	0.00002	0.00003	0.00003
	(!CK * !D0 * !D1)	-0.00013	-0.00010	-0.00005

MDFFQX1H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The MDFFQ cell is a positive edge-triggered, static D-type flip-flop with a 2-to-1 data-select control (S0) for the data inputs (D1, D0). The cell has a single output (Q).



Truth Table

INPUT				OUTPUT
CK	D0	D1	S0	Q
R	0	0	x	0
R	0	1	0	0
R	x	1	1	1
R	1	x	0	1
R	1	0	1	0
x	x	x	x	IQ

Footprint

Cell Name	Area
MDFFQX1H7H	8.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	CK	**D0**	**D1**	**S0**	**Q**
MDFFQX1H7H	0.00098	0.00084	0.00092	0.00223	0.05008

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
MDFFQX1H7H	0.00000	0.08696	0.09899

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MDFFQX1H7H	CK->Q (RR)	(D1 * !S0)	0.17416	0.36028	0.79989
	CK->Q (RR)	(D0 * S0)	0.17425	0.36029	0.79987
	CK->Q (RR)	(!D1 * !S0)	0.17426	0.36029	0.79997
	CK->Q (RR)	(!D0 * S0)	0.17426	0.36030	0.79994

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MDFFQX1H7H	CK->Q (RF)	(D1 * !S0)	0.13623	0.30185	0.67351
	CK->Q (RF)	(D0 * S0)	0.13628	0.30185	0.67351
	CK->Q (RF)	(!D1 * !S0)	0.13625	0.30185	0.67351
	CK->Q (RF)	(!D0 * S0)	0.13624	0.30185	0.67351

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
MDFFQX1H7H	0.9851	0.9851

Constraints(ns) for D0 rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
MDFFQX1H7H	**hold**	**CK (R)**	-0.26664	-0.10759	-0.00672
	setup	**CK (R)**	0.02782	0.12916	0.30118

Constraints(ns) for D0 falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
MDFFQX1H7H	**hold**	**CK (R)**	-0.30942	-0.08826	0.10718
	setup	**CK (R)**	-0.04533	0.14903	0.37344

Constraints(ns) for D1 rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
MDFFQX1H7H	**hold**	**CK (R)**	-0.27086	-0.10789	-0.00780
	setup	**CK (R)**	0.02382	0.12867	0.30118

Constraints(ns) for D1 falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
MDFFQX1H7H	**hold**	**CK (R)**	-0.31148	-0.09140	0.10278
	setup	**CK (R)**	-0.04322	0.15125	0.37555

Constraints(ns) for S0 rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
MDFFQX1H7H	hold	CK (R)	-0.22776	-0.07082	0.08897
	setup	CK (R)	0.01347	0.15607	0.30636

Constraints(ns) for S0 falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
MDFFQX1H7H	hold	CK (R)	-0.26356	-0.06665	0.12454
	setup	CK (R)	0.05151	0.15688	0.34424

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MDFFQX1H7H	CK	(D1 * !S0)	0.00370	0.00379	0.00388
	CK	(D1 * !S0)	0.00007	0.00007	0.00007
	CK	(D1 * !S0)	-0.00004	-0.00003	0.00004
	CK	(D1 * !S0)	0.00447	0.00456	0.00465
	CK	(D0 * S0)	0.00370	0.00379	0.00388
	CK	(D0 * S0)	0.00007	0.00007	0.00007
	CK	(D0 * S0)	-0.00005	-0.00003	-0.00003
	CK	(D0 * S0)	0.00448	0.00457	0.00466
	CK	(!D1 * !S0)	0.00370	0.00379	0.00388
	CK	(!D1 * !S0)	0.00007	0.00007	0.00007
	CK	(!D1 * !S0)	-0.00006	-0.00003	0.00004
	CK	(!D1 * !S0)	0.00447	0.00456	0.00465
	CK	(!D0 * S0)	0.00370	0.00379	0.00388
	CK	(!D0 * S0)	0.00006	0.00007	0.00007
	CK	(!D0 * S0)	-0.00005	-0.00004	-0.00003
	CK	(!D0 * S0)	0.00448	0.00457	0.00466

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MDFFQX1H7H	CK	(D1 * !S0)	0.00370	0.00382	0.00394
	CK	(D1 * !S0)	-0.00005	-0.00003	-0.00003
	CK	(D1 * !S0)	0.00006	0.00006	0.00006
	CK	(D1 * !S0)	0.00428	0.00440	0.00451
	CK	(D0 * S0)	0.00371	0.00383	0.00394
	CK	(D0 * S0)	-0.00004	-0.00003	-0.00003
	CK	(D0 * S0)	0.00006	0.00006	0.00006
	CK	(D0 * S0)	0.00429	0.00441	0.00452
	CK	(!D1 * !S0)	0.00370	0.00382	0.00393
	CK	(!D1 * !S0)	-0.00005	-0.00003	-0.00002
	CK	(!D1 * !S0)	0.00006	0.00006	0.00006
	CK	(!D1 * !S0)	0.00428	0.00440	0.00451
	CK	(!D0 * S0)	0.00371	0.00383	0.00394
	CK	(!D0 * S0)	-0.00004	-0.00003	-0.00003
	CK	(!D0 * S0)	0.00006	0.00006	0.00006
	CK	(!D0 * S0)	0.00429	0.00441	0.00452

Passive power(pJ) for CK rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

MDFFQX1H7H	**(D0 * D1 * S0)**	0.00162	0.00167	0.00171
	(D0 * D1 * S0)	0.00002	0.00002	0.00003
	(D0 * D1 * S0)	0.00000	0.00000	0.00001
	(D0 * D1 * S0)	0.00232	0.00236	0.00242
	(D0 * D1 * !S0)	0.00161	0.00166	0.00170
	(D0 * D1 * !S0)	0.00002	0.00002	0.00003
	(D0 * D1 * !S0)	0.00000	0.00000	0.00001
	(D0 * D1 * !S0)	0.00231	0.00235	0.00241
	(D0 * !D1 * S0)	0.00184	0.00189	0.00194
	(D0 * !D1 * S0)	0.00000	0.00000	0.00001
	(D0 * !D1 * S0)	0.00002	0.00002	0.00003
	(D0 * !D1 * S0)	0.00249	0.00253	0.00259
	(D0 * !D1 * !S0)	0.00161	0.00166	0.00170
	(D0 * !D1 * !S0)	0.00002	0.00002	0.00003
	(D0 * !D1 * !S0)	0.00000	0.00000	0.00001
	(D0 * !D1 * !S0)	0.00231	0.00235	0.00241
	(!D0 * D1 * S0)	0.00162	0.00167	0.00171
	(!D0 * D1 * S0)	0.00002	0.00002	0.00003
	(!D0 * D1 * S0)	0.00000	0.00000	0.00001
	(!D0 * D1 * S0)	0.00232	0.00236	0.00242
	(!D0 * D1 * !S0)	0.00184	0.00188	0.00193
	(!D0 * D1 * !S0)	0.00000	0.00000	0.00001
	(!D0 * D1 * !S0)	0.00002	0.00003	0.00003
	(!D0 * D1 * !S0)	0.00248	0.00253	0.00258
	(!D0 * !D1 * S0)	0.00184	0.00189	0.00194
	(!D0 * !D1 * S0)	0.00000	0.00000	0.00001
	(!D0 * !D1 * S0)	0.00002	0.00002	0.00003
	(!D0 * !D1 * S0)	0.00249	0.00253	0.00259
	(!D0 * !D1 * !S0)	0.00184	0.00188	0.00193
	(!D0 * !D1 * !S0)	0.00000	0.00000	0.00001
	(!D0 * !D1 * !S0)	0.00002	0.00003	0.00003
	(!D0 * !D1 * !S0)	0.00248	0.00253	0.00258

Passive power(pJ) for CK falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

MDFFQX1H7H	**(D0 * D1 * S0)**	0.00408	0.00415	0.00422
	(D0 * D1 * S0)	-0.00002	-0.00001	-0.00000
	(D0 * D1 * S0)	-0.00001	-0.00000	0.00000
	(D0 * D1 * S0)	0.00350	0.00357	0.00364
	(D0 * D1 * !S0)	0.00409	0.00415	0.00423
	(D0 * D1 * !S0)	-0.00002	-0.00001	-0.00000
	(D0 * D1 * !S0)	-0.00001	-0.00000	0.00000
	(D0 * D1 * !S0)	0.00351	0.00358	0.00365
	(D0 * !D1 * S0)	0.00413	0.00417	0.00421
	(D0 * !D1 * S0)	-0.00001	-0.00000	0.00000
	(D0 * !D1 * S0)	-0.00002	-0.00000	0.00001
	(D0 * !D1 * S0)	0.00334	0.00337	0.00342
	(D0 * !D1 * !S0)	0.00409	0.00415	0.00423
	(D0 * !D1 * !S0)	-0.00002	-0.00001	-0.00000
	(D0 * !D1 * !S0)	-0.00001	-0.00000	0.00000
	(D0 * !D1 * !S0)	0.00351	0.00358	0.00365
	(!D0 * D1 * S0)	0.00409	0.00415	0.00422
	(!D0 * D1 * S0)	-0.00002	-0.00001	-0.00000
	(!D0 * D1 * S0)	-0.00001	-0.00000	0.00000
	(!D0 * D1 * S0)	0.00351	0.00357	0.00364
	(!D0 * D1 * !S0)	0.00414	0.00417	0.00420
	(!D0 * D1 * !S0)	-0.00001	-0.00000	0.00000
	(!D0 * D1 * !S0)	-0.00001	0.00000	0.00001
	(!D0 * D1 * !S0)	0.00334	0.00338	0.00343
	(!D0 * !D1 * S0)	0.00413	0.00417	0.00421
	(!D0 * !D1 * S0)	-0.00001	-0.00000	0.00000
	(!D0 * !D1 * S0)	-0.00000	0.00000	0.00001
	(!D0 * !D1 * S0)	0.00334	0.00337	0.00341
	(!D0 * !D1 * !S0)	0.00414	0.00417	0.00421
	(!D0 * !D1 * !S0)	-0.00001	-0.00000	0.00000
	(!D0 * !D1 * !S0)	-0.00001	0.00000	0.00001
	(!D0 * !D1 * !S0)	0.00334	0.00338	0.00342

Passive power(pJ) for D0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

MDFFQX1H7H	**(CK * D1 * S0)**	-0.00012	-0.00011	-0.00010
	(CK * D1 * S0)	-0.00003	-0.00003	-0.00003
	(CK * D1 * S0)	0.00002	0.00002	0.00002
	(CK * D1 * S0)	0.00028	0.00028	0.00029
	(CK * D1 * !S0)	0.00015	0.00016	0.00017
	(CK * D1 * !S0)	0.00018	0.00018	0.00019
	(CK * D1 * !S0)	-0.00014	-0.00014	-0.00014
	(CK * D1 * !S0)	0.00133	0.00134	0.00135
	(CK * !D1 * S0)	-0.00012	-0.00011	-0.00010
	(CK * !D1 * S0)	-0.00003	-0.00003	-0.00002
	(CK * !D1 * S0)	0.00002	0.00002	0.00002
	(CK * !D1 * S0)	0.00029	0.00029	0.00029
	(CK * !D1 * !S0)	0.00015	0.00016	0.00017
	(CK * !D1 * !S0)	0.00018	0.00018	0.00019
	(CK * !D1 * !S0)	-0.00014	-0.00014	-0.00014
	(CK * !D1 * !S0)	0.00133	0.00135	0.00136
	(!CK * D1 * S0)	-0.00012	-0.00011	-0.00009
	(!CK * D1 * S0)	-0.00003	-0.00003	-0.00003
	(!CK * D1 * S0)	0.00002	0.00002	0.00002
	(!CK * D1 * S0)	0.00028	0.00028	0.00028
	(!CK * D1 * !S0)	0.00188	0.00189	0.00192
	(!CK * D1 * !S0)	0.00016	0.00017	0.00017
	(!CK * D1 * !S0)	-0.00014	-0.00014	-0.00014
	(!CK * D1 * !S0)	0.00305	0.00307	0.00308
	(!CK * !D1 * S0)	-0.00012	-0.00011	-0.00010
	(!CK * !D1 * S0)	-0.00003	-0.00003	-0.00003
	(!CK * !D1 * S0)	0.00002	0.00002	0.00002
	(!CK * !D1 * S0)	0.00028	0.00029	0.00029
	(!CK * !D1 * !S0)	0.00188	0.00189	0.00192
	(!CK * !D1 * !S0)	0.00016	0.00017	0.00017
	(!CK * !D1 * !S0)	-0.00014	-0.00014	-0.00013
	(!CK * !D1 * !S0)	0.00305	0.00307	0.00308

Passive power(pJ) for D0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

MDFFQX1H7H	**(CK * D1 * S0)**	0.00012	0.00012	0.00012
	(CK * D1 * S0)	0.00003	0.00003	0.00003
	(CK * D1 * S0)	-0.00002	-0.00002	-0.00002
	(CK * D1 * S0)	-0.00028	-0.00028	-0.00027
	(CK * D1 * !S0)	0.00142	0.00143	0.00145
	(CK * D1 * !S0)	-0.00019	-0.00018	-0.00018
	(CK * D1 * !S0)	0.00014	0.00014	0.00015
	(CK * D1 * !S0)	0.00023	0.00024	0.00025
	(CK * !D1 * S0)	0.00012	0.00013	0.00013
	(CK * !D1 * S0)	0.00002	0.00003	0.00003
	(CK * !D1 * S0)	-0.00002	-0.00002	-0.00002
	(CK * !D1 * S0)	-0.00028	-0.00028	-0.00026
	(CK * !D1 * !S0)	0.00142	0.00143	0.00144
	(CK * !D1 * !S0)	-0.00018	-0.00018	-0.00018
	(CK * !D1 * !S0)	0.00014	0.00014	0.00015
	(CK * !D1 * !S0)	0.00023	0.00024	0.00025
	(!CK * D1 * S0)	0.00012	0.00012	0.00012
	(!CK * D1 * S0)	0.00003	0.00003	0.00003
	(!CK * D1 * S0)	-0.00002	-0.00002	-0.00002
	(!CK * D1 * S0)	-0.00028	-0.00028	-0.00027
	(!CK * D1 * !S0)	0.00244	0.00246	0.00248
	(!CK * D1 * !S0)	-0.00017	-0.00017	-0.00016
	(!CK * D1 * !S0)	0.00014	0.00014	0.00015
	(!CK * D1 * !S0)	0.00127	0.00128	0.00130
	(!CK * !D1 * S0)	0.00012	0.00012	0.00013
	(!CK * !D1 * S0)	0.00003	0.00003	0.00003
	(!CK * !D1 * S0)	-0.00002	-0.00002	-0.00002
	(!CK * !D1 * S0)	-0.00028	-0.00028	-0.00026
	(!CK * !D1 * !S0)	0.00244	0.00246	0.00248
	(!CK * !D1 * !S0)	-0.00017	-0.00017	-0.00016
	(!CK * !D1 * !S0)	0.00013	0.00014	0.00014
	(!CK * !D1 * !S0)	0.00127	0.00128	0.00131

Passive power(pJ) for D1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

MDFFQX1H7H	**(CK * D0 * S0)**	-0.00007	-0.00006	-0.00004
	(CK * D0 * S0)	0.00018	0.00018	0.00020
	(CK * D0 * S0)	-0.00014	-0.00014	-0.00013
	(CK * D0 * S0)	0.00115	0.00117	0.00118
	(CK * D0 * !S0)	-0.00016	-0.00016	-0.00014
	(CK * D0 * !S0)	-0.00003	-0.00003	-0.00003
	(CK * D0 * !S0)	0.00002	0.00002	0.00002
	(CK * D0 * !S0)	0.00027	0.00027	0.00027
	(CK * !D0 * S0)	-0.00007	-0.00006	-0.00004
	(CK * !D0 * S0)	0.00018	0.00018	0.00020
	(CK * !D0 * S0)	-0.00014	-0.00014	-0.00014
	(CK * !D0 * S0)	0.00115	0.00117	0.00118
	(CK * !D0 * !S0)	-0.00020	-0.00019	-0.00018
	(CK * !D0 * !S0)	-0.00003	-0.00003	-0.00003
	(CK * !D0 * !S0)	0.00002	0.00002	0.00002
	(CK * !D0 * !S0)	0.00024	0.00024	0.00024
	(!CK * D0 * S0)	0.00165	0.00168	0.00170
	(!CK * D0 * S0)	0.00016	0.00017	0.00018
	(!CK * D0 * S0)	-0.00014	-0.00014	-0.00013
	(!CK * D0 * S0)	0.00287	0.00290	0.00293
	(!CK * D0 * !S0)	-0.00016	-0.00016	-0.00014
	(!CK * D0 * !S0)	-0.00003	-0.00003	-0.00003
	(!CK * D0 * !S0)	0.00001	0.00002	0.00002
	(!CK * D0 * !S0)	0.00027	0.00027	0.00028
	(!CK * !D0 * S0)	0.00165	0.00168	0.00171
	(!CK * !D0 * S0)	0.00016	0.00017	0.00017
	(!CK * !D0 * S0)	-0.00014	-0.00014	-0.00012
	(!CK * !D0 * S0)	0.00287	0.00289	0.00291
	(!CK * !D0 * !S0)	-0.00020	-0.00019	-0.00018
	(!CK * !D0 * !S0)	-0.00003	-0.00003	-0.00003
	(!CK * !D0 * !S0)	0.00001	0.00002	0.00002
	(!CK * !D0 * !S0)	0.00023	0.00024	0.00024

Passive power(pJ) for D1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

MDFFQX1H7H	**(CK * D0 * S0)**	0.00164	0.00166	0.00168
	(CK * D0 * S0)	-0.00018	-0.00018	-0.00017
	(CK * D0 * S0)	0.00014	0.00014	0.00014
	(CK * D0 * S0)	0.00043	0.00044	0.00047
	(CK * D0 * !S0)	0.00016	0.00016	0.00016
	(CK * D0 * !S0)	0.00003	0.00003	0.00003
	(CK * D0 * !S0)	-0.00002	-0.00002	-0.00002
	(CK * D0 * !S0)	-0.00027	-0.00026	-0.00025
	(CK * !D0 * S0)	0.00164	0.00166	0.00168
	(CK * !D0 * S0)	-0.00018	-0.00018	-0.00017
	(CK * !D0 * S0)	0.00014	0.00014	0.00014
	(CK * !D0 * S0)	0.00043	0.00044	0.00047
	(CK * !D0 * !S0)	0.00020	0.00020	0.00021
	(CK * !D0 * !S0)	0.00003	0.00003	0.00003
	(CK * !D0 * !S0)	-0.00002	-0.00002	-0.00002
	(CK * !D0 * !S0)	-0.00024	-0.00023	-0.00021
	(!CK * D0 * S0)	0.00267	0.00270	0.00273
	(!CK * D0 * S0)	-0.00017	-0.00017	-0.00016
	(!CK * D0 * S0)	0.00013	0.00014	0.00014
	(!CK * D0 * S0)	0.00146	0.00149	0.00152
	(!CK * D0 * !S0)	0.00016	0.00016	0.00016
	(!CK * D0 * !S0)	0.00003	0.00003	0.00003
	(!CK * D0 * !S0)	-0.00002	-0.00002	-0.00001
	(!CK * D0 * !S0)	-0.00027	-0.00027	-0.00026
	(!CK * !D0 * S0)	0.00267	0.00270	0.00273
	(!CK * !D0 * S0)	-0.00017	-0.00017	-0.00016
	(!CK * !D0 * S0)	0.00012	0.00014	0.00014
	(!CK * !D0 * S0)	0.00146	0.00149	0.00152
	(!CK * !D0 * !S0)	0.00020	0.00020	0.00021
	(!CK * !D0 * !S0)	0.00003	0.00003	0.00003
	(!CK * !D0 * !S0)	-0.00002	-0.00002	-0.00001
	(!CK * !D0 * !S0)	-0.00024	-0.00022	-0.00020

Passive power(pJ) for S0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

MDFFQX1H7H	**(CK * D0 * D1)**	-0.00018	-0.00015	-0.00011
	(CK * D0 * D1)	0.00003	0.00003	0.00004
	(CK * D0 * D1)	-0.00003	-0.00002	-0.00001
	(CK * D0 * D1)	0.00126	0.00128	0.00132
	(CK * D0 * !D1)	0.00120	0.00126	0.00134
	(CK * D0 * !D1)	-0.00015	-0.00013	-0.00012
	(CK * D0 * !D1)	0.00008	0.00009	0.00011
	(CK * D0 * !D1)	0.00202	0.00208	0.00215
	(CK * !D0 * D1)	-0.00029	-0.00023	-0.00015
	(CK * !D0 * D1)	0.00019	0.00019	0.00020
	(CK * !D0 * D1)	-0.00015	-0.00015	-0.00013
	(CK * !D0 * D1)	0.00178	0.00183	0.00189
	(CK * !D0 * !D1)	-0.00018	-0.00015	-0.00010
	(CK * !D0 * !D1)	0.00002	0.00003	0.00003
	(CK * !D0 * !D1)	-0.00003	-0.00003	-0.00002
	(CK * !D0 * !D1)	0.00126	0.00129	0.00135
	(!CK * D0 * D1)	-0.00019	-0.00015	-0.00010
	(!CK * D0 * D1)	0.00003	0.00003	0.00004
	(!CK * D0 * D1)	-0.00003	-0.00003	-0.00002
	(!CK * D0 * D1)	0.00126	0.00128	0.00131
	(!CK * D0 * !D1)	0.00223	0.00227	0.00232
	(!CK * D0 * !D1)	-0.00012	-0.00011	-0.00011
	(!CK * D0 * !D1)	0.00007	0.00009	0.00011
	(!CK * D0 * !D1)	0.00306	0.00310	0.00315
	(!CK * !D0 * D1)	0.00145	0.00151	0.00158
	(!CK * !D0 * D1)	0.00018	0.00018	0.00019
	(!CK * !D0 * D1)	-0.00016	-0.00015	-0.00014
	(!CK * !D0 * D1)	0.00351	0.00357	0.00366
	(!CK * !D0 * !D1)	-0.00018	-0.00015	-0.00010
	(!CK * !D0 * !D1)	0.00001	0.00003	0.00003
	(!CK * !D0 * !D1)	-0.00003	-0.00003	-0.00002
	(!CK * !D0 * !D1)	0.00126	0.00129	0.00132

Passive power(pJ) for S0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

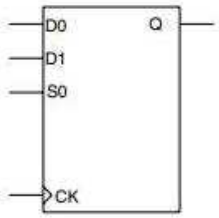
MDFFQX1H7H	**(CK * D0 * D1)**	0.00132	0.00135	0.00139
	(CK * D0 * D1)	-0.00003	-0.00003	-0.00003
	(CK * D0 * D1)	0.00002	0.00003	0.00003
	(CK * D0 * D1)	-0.00012	-0.00009	-0.00004
	(CK * D0 * !D1)	0.00173	0.00176	0.00180
	(CK * D0 * !D1)	0.00012	0.00013	0.00015
	(CK * D0 * !D1)	-0.00009	-0.00009	-0.00008
	(CK * D0 * !D1)	0.00090	0.00094	0.00098
	(CK * !D0 * D1)	0.00219	0.00225	0.00233
	(CK * !D0 * D1)	-0.00020	-0.00019	-0.00019
	(CK * !D0 * D1)	0.00014	0.00015	0.00015
	(CK * !D0 * D1)	0.00013	0.00018	0.00026
	(CK * !D0 * !D1)	0.00131	0.00134	0.00139
	(CK * !D0 * !D1)	-0.00003	-0.00003	-0.00002
	(CK * !D0 * !D1)	0.00002	0.00003	0.00003
	(CK * !D0 * !D1)	-0.00013	-0.00010	-0.00005
	(!CK * D0 * D1)	0.00132	0.00135	0.00139
	(!CK * D0 * D1)	-0.00003	-0.00003	-0.00003
	(!CK * D0 * D1)	0.00002	0.00003	0.00003
	(!CK * D0 * D1)	-0.00012	-0.00009	-0.00003
	(!CK * D0 * !D1)	0.00345	0.00347	0.00350
	(!CK * D0 * !D1)	0.00011	0.00011	0.00012
	(!CK * D0 * !D1)	-0.00011	-0.00009	-0.00007
	(!CK * D0 * !D1)	0.00261	0.00264	0.00268
	(!CK * !D0 * D1)	0.00324	0.00330	0.00338
	(!CK * !D0 * D1)	-0.00019	-0.00018	-0.00018
	(!CK * !D0 * D1)	0.00014	0.00015	0.00016
	(!CK * !D0 * D1)	0.00118	0.00124	0.00132
	(!CK * !D0 * !D1)	0.00131	0.00134	0.00139
	(!CK * !D0 * !D1)	-0.00003	-0.00003	-0.00001
	(!CK * !D0 * !D1)	0.00003	0.00003	0.00003
	(!CK * !D0 * !D1)	-0.00013	-0.00010	-0.00006

MDFFQX2H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The MDFFQ cell is a positive edge-triggered, static D-type flip-flop with a 2-to-1 data-select control (S0) for the data inputs (D1, D0). The cell has a single output (Q).



Truth Table

INPUT				OUTPUT
CK	D0	D1	S0	Q
R	0	0	x	0
R	0	1	0	0
R	x	1	1	1
R	1	x	0	1
R	1	0	1	0
x	x	x	x	IQ

Footprint

Cell Name	Area
MDFFQX2H7H	8.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	CK	**D0**	**D1**	**S0**	**Q**
MDFFQX2H7H	0.00098	0.00084	0.00092	0.00224	0.06356

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
MDFFQX2H7H	0.00000	0.08969	0.09546

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MDFFQX2H7H	CK->Q (RR)	(D1 * !S0)	0.17977	0.36893	0.81036
	CK->Q (RR)	(D0 * S0)	0.17987	0.36894	0.81041
	CK->Q (RR)	(!D1 * !S0)	0.17978	0.36893	0.81038
	CK->Q (RR)	(!D0 * S0)	0.17987	0.36894	0.81040

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MDFFQX2H7H	CK->Q (RF)	(D1 * !S0)	0.14324	0.30841	0.67166
	CK->Q (RF)	(D0 * S0)	0.14313	0.30839	0.67166
	CK->Q (RF)	(!D1 * !S0)	0.14324	0.30841	0.67166
	CK->Q (RF)	(!D0 * S0)	0.14313	0.30839	0.67166

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
MDFFQX2H7H	0.9851	0.9851

Constraints(ns) for D0 rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
MDFFQX2H7H	**hold**	**CK (R)**	-0.26918	-0.10774	-0.00667
	setup	**CK (R)**	0.02782	0.12916	0.30118

Constraints(ns) for D0 falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
MDFFQX2H7H	**hold**	**CK (R)**	-0.31029	-0.08853	0.10590
	setup	**CK (R)**	-0.04647	0.14852	0.37237

Constraints(ns) for D1 rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
MDFFQX2H7H	**hold**	**CK (R)**	-0.27056	-0.10838	-0.00745
	setup	**CK (R)**	0.02382	0.12867	0.30118

Constraints(ns) for D1 falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
MDFFQX2H7H	**hold**	**CK (R)**	-0.31325	-0.09151	0.10453
	setup	**CK (R)**	-0.04462	0.15080	0.37434

Constraints(ns) for S0 rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
MDFFQX2H7H	hold	CK (R)	-0.22577	-0.07125	0.08775
	setup	CK (R)	0.01353	0.15546	0.30711

Constraints(ns) for S0 falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
MDFFQX2H7H	hold	CK (R)	-0.26379	-0.06722	0.12237
	setup	CK (R)	0.05097	0.15697	0.34386

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MDFFQX2H7H	CK	(D1 * !S0)	0.00392	0.00403	0.00414
	CK	(D1 * !S0)	0.00006	0.00006	0.00006
	CK	(D1 * !S0)	-0.00003	-0.00003	-0.00002
	CK	(D1 * !S0)	0.00468	0.00478	0.00489
	CK	(D0 * S0)	0.00393	0.00404	0.00414
	CK	(D0 * S0)	0.00005	0.00006	0.00006
	CK	(D0 * S0)	-0.00006	-0.00003	-0.00002
	CK	(D0 * S0)	0.00468	0.00479	0.00490
	CK	(!D1 * !S0)	0.00392	0.00403	0.00413
	CK	(!D1 * !S0)	0.00006	0.00006	0.00006
	CK	(!D1 * !S0)	-0.00003	-0.00003	-0.00002
	CK	(!D1 * !S0)	0.00468	0.00478	0.00489
	CK	(!D0 * S0)	0.00393	0.00404	0.00414
	CK	(!D0 * S0)	0.00006	0.00006	0.00006
	CK	(!D0 * S0)	-0.00003	-0.00002	0.00002
	CK	(!D0 * S0)	0.00468	0.00479	0.00490

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MDFFQX2H7H	CK	(D1 * !S0)	0.00400	0.00413	0.00426
	CK	(D1 * !S0)	-0.00005	-0.00002	-0.00000
	CK	(D1 * !S0)	0.00005	0.00005	0.00009
	CK	(D1 * !S0)	0.00460	0.00473	0.00486
	CK	(D0 * S0)	0.00400	0.00414	0.00427
	CK	(D0 * S0)	-0.00003	-0.00002	0.00001
	CK	(D0 * S0)	0.00004	0.00005	0.00007
	CK	(D0 * S0)	0.00460	0.00474	0.00487
	CK	(!D1 * !S0)	0.00400	0.00413	0.00425
	CK	(!D1 * !S0)	-0.00005	-0.00002	0.00000
	CK	(!D1 * !S0)	0.00004	0.00005	0.00006
	CK	(!D1 * !S0)	0.00460	0.00473	0.00486
	CK	(!D0 * S0)	0.00400	0.00414	0.00427
	CK	(!D0 * S0)	-0.00003	-0.00002	0.00001
	CK	(!D0 * S0)	0.00004	0.00005	0.00007
	CK	(!D0 * S0)	0.00460	0.00474	0.00487

Passive power(pJ) for CK rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

MDFFQX2H7H	**(D0 * D1 * S0)**	0.00162	0.00166	0.00171
	(D0 * D1 * S0)	0.00002	0.00003	0.00003
	(D0 * D1 * S0)	0.00000	0.00000	0.00001
	(D0 * D1 * S0)	0.00232	0.00236	0.00242
	(D0 * D1 * !S0)	0.00161	0.00166	0.00170
	(D0 * D1 * !S0)	0.00002	0.00003	0.00003
	(D0 * D1 * !S0)	0.00000	0.00000	0.00001
	(D0 * D1 * !S0)	0.00231	0.00235	0.00241
	(D0 * !D1 * S0)	0.00184	0.00189	0.00194
	(D0 * !D1 * S0)	0.00000	0.00000	0.00000
	(D0 * !D1 * S0)	0.00002	0.00003	0.00003
	(D0 * !D1 * S0)	0.00249	0.00253	0.00259
	(D0 * !D1 * !S0)	0.00161	0.00166	0.00170
	(D0 * !D1 * !S0)	0.00002	0.00003	0.00003
	(D0 * !D1 * !S0)	0.00000	0.00000	0.00001
	(D0 * !D1 * !S0)	0.00231	0.00235	0.00241
	(!D0 * D1 * S0)	0.00162	0.00166	0.00171
	(!D0 * D1 * S0)	0.00002	0.00003	0.00003
	(!D0 * D1 * S0)	0.00000	0.00000	0.00000
	(!D0 * D1 * S0)	0.00232	0.00236	0.00242
	(!D0 * D1 * !S0)	0.00184	0.00188	0.00193
	(!D0 * D1 * !S0)	0.00000	0.00000	0.00001
	(!D0 * D1 * !S0)	0.00002	0.00002	0.00003
	(!D0 * D1 * !S0)	0.00248	0.00253	0.00258
	(!D0 * !D1 * S0)	0.00184	0.00189	0.00194
	(!D0 * !D1 * S0)	0.00000	0.00000	0.00001
	(!D0 * !D1 * S0)	0.00002	0.00003	0.00003
	(!D0 * !D1 * S0)	0.00249	0.00253	0.00259
	(!D0 * !D1 * !S0)	0.00184	0.00188	0.00195
	(!D0 * !D1 * !S0)	0.00000	0.00000	0.00001
	(!D0 * !D1 * !S0)	0.00002	0.00003	0.00003
	(!D0 * !D1 * !S0)	0.00248	0.00253	0.00258

Passive power(pJ) for CK falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

MDFFQX2H7H	**(D0 * D1 * S0)**	0.00409	0.00415	0.00422
	(D0 * D1 * S0)	-0.00002	-0.00001	-0.00000
	(D0 * D1 * S0)	-0.00001	-0.00000	0.00000
	(D0 * D1 * S0)	0.00351	0.00357	0.00362
	(D0 * D1 * !S0)	0.00409	0.00415	0.00422
	(D0 * D1 * !S0)	-0.00002	-0.00001	-0.00000
	(D0 * D1 * !S0)	-0.00001	-0.00000	0.00000
	(D0 * D1 * !S0)	0.00351	0.00358	0.00364
	(D0 * !D1 * S0)	0.00413	0.00417	0.00421
	(D0 * !D1 * S0)	-0.00000	-0.00000	0.00000
	(D0 * !D1 * S0)	-0.00002	-0.00000	0.00001
	(D0 * !D1 * S0)	0.00334	0.00338	0.00343
	(D0 * !D1 * !S0)	0.00409	0.00415	0.00422
	(D0 * !D1 * !S0)	-0.00002	-0.00001	-0.00000
	(D0 * !D1 * !S0)	-0.00001	-0.00000	0.00000
	(D0 * !D1 * !S0)	0.00351	0.00357	0.00364
	(!D0 * D1 * S0)	0.00409	0.00415	0.00422
	(!D0 * D1 * S0)	-0.00002	-0.00001	-0.00000
	(!D0 * D1 * S0)	-0.00000	-0.00000	0.00000
	(!D0 * D1 * S0)	0.00351	0.00357	0.00362
	(!D0 * D1 * !S0)	0.00414	0.00417	0.00420
	(!D0 * D1 * !S0)	-0.00001	-0.00000	0.00000
	(!D0 * D1 * !S0)	-0.00001	-0.00000	0.00001
	(!D0 * D1 * !S0)	0.00335	0.00338	0.00343
	(!D0 * !D1 * S0)	0.00413	0.00417	0.00421
	(!D0 * !D1 * S0)	-0.00001	-0.00000	0.00000
	(!D0 * !D1 * S0)	-0.00001	0.00000	0.00001
	(!D0 * !D1 * S0)	0.00334	0.00337	0.00341
	(!D0 * !D1 * !S0)	0.00414	0.00417	0.00421
	(!D0 * !D1 * !S0)	-0.00001	-0.00000	0.00000
	(!D0 * !D1 * !S0)	-0.00001	-0.00000	0.00001
	(!D0 * !D1 * !S0)	0.00335	0.00338	0.00343

Passive power(pJ) for D0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

MDFFQX2H7H	**(CK * D1 * S0)**	-0.00012	-0.00011	-0.00010
	(CK * D1 * S0)	-0.00003	-0.00003	-0.00003
	(CK * D1 * S0)	0.00002	0.00002	0.00002
	(CK * D1 * S0)	0.00028	0.00028	0.00029
	(CK * D1 * !S0)	0.00015	0.00016	0.00017
	(CK * D1 * !S0)	0.00018	0.00018	0.00018
	(CK * D1 * !S0)	-0.00014	-0.00014	-0.00014
	(CK * D1 * !S0)	0.00133	0.00135	0.00137
	(CK * !D1 * S0)	-0.00012	-0.00011	-0.00010
	(CK * !D1 * S0)	-0.00003	-0.00003	-0.00003
	(CK * !D1 * S0)	0.00002	0.00002	0.00002
	(CK * !D1 * S0)	0.00029	0.00029	0.00029
	(CK * !D1 * !S0)	0.00015	0.00016	0.00017
	(CK * !D1 * !S0)	0.00018	0.00018	0.00020
	(CK * !D1 * !S0)	-0.00015	-0.00014	-0.00014
	(CK * !D1 * !S0)	0.00133	0.00135	0.00138
	(!CK * D1 * S0)	-0.00012	-0.00011	-0.00009
	(!CK * D1 * S0)	-0.00003	-0.00003	-0.00003
	(!CK * D1 * S0)	0.00002	0.00002	0.00002
	(!CK * D1 * S0)	0.00028	0.00028	0.00028
	(!CK * D1 * !S0)	0.00188	0.00189	0.00191
	(!CK * D1 * !S0)	0.00017	0.00017	0.00018
	(!CK * D1 * !S0)	-0.00015	-0.00014	-0.00014
	(!CK * D1 * !S0)	0.00305	0.00307	0.00310
	(!CK * !D1 * S0)	-0.00012	-0.00011	-0.00010
	(!CK * !D1 * S0)	-0.00003	-0.00003	-0.00002
	(!CK * !D1 * S0)	0.00002	0.00002	0.00002
	(!CK * !D1 * S0)	0.00028	0.00029	0.00029
	(!CK * !D1 * !S0)	0.00188	0.00189	0.00191
	(!CK * !D1 * !S0)	0.00017	0.00017	0.00018
	(!CK * !D1 * !S0)	-0.00015	-0.00014	-0.00014
	(!CK * !D1 * !S0)	0.00305	0.00308	0.00310

Passive power(pJ) for D0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

MDFFQX2H7H	**(CK * D1 * S0)**	0.00012	0.00012	0.00012
	(CK * D1 * S0)	0.00003	0.00003	0.00003
	(CK * D1 * S0)	-0.00002	-0.00002	-0.00002
	(CK * D1 * S0)	-0.00028	-0.00028	-0.00026
	(CK * D1 * !S0)	0.00142	0.00143	0.00144
	(CK * D1 * !S0)	-0.00018	-0.00018	-0.00017
	(CK * D1 * !S0)	0.00014	0.00014	0.00014
	(CK * D1 * !S0)	0.00023	0.00024	0.00026
	(CK * !D1 * S0)	0.00012	0.00012	0.00013
	(CK * !D1 * S0)	0.00003	0.00003	0.00003
	(CK * !D1 * S0)	-0.00002	-0.00002	-0.00002
	(CK * !D1 * S0)	-0.00028	-0.00028	-0.00026
	(CK * !D1 * !S0)	0.00142	0.00143	0.00145
	(CK * !D1 * !S0)	-0.00020	-0.00018	-0.00018
	(CK * !D1 * !S0)	0.00014	0.00014	0.00015
	(CK * !D1 * !S0)	0.00023	0.00024	0.00025
	(!CK * D1 * S0)	0.00012	0.00012	0.00012
	(!CK * D1 * S0)	0.00003	0.00003	0.00003
	(!CK * D1 * S0)	-0.00002	-0.00002	-0.00002
	(!CK * D1 * S0)	-0.00028	-0.00028	-0.00027
	(!CK * D1 * !S0)	0.00245	0.00246	0.00248
	(!CK * D1 * !S0)	-0.00017	-0.00017	-0.00017
	(!CK * D1 * !S0)	0.00014	0.00014	0.00015
	(!CK * D1 * !S0)	0.00127	0.00128	0.00130
	(!CK * !D1 * S0)	0.00012	0.00013	0.00013
	(!CK * !D1 * S0)	0.00002	0.00003	0.00003
	(!CK * !D1 * S0)	-0.00002	-0.00002	-0.00002
	(!CK * !D1 * S0)	-0.00028	-0.00028	-0.00026
	(!CK * !D1 * !S0)	0.00245	0.00247	0.00248
	(!CK * !D1 * !S0)	-0.00018	-0.00017	-0.00017
	(!CK * !D1 * !S0)	0.00014	0.00014	0.00015
	(!CK * !D1 * !S0)	0.00127	0.00128	0.00130

Passive power(pJ) for D1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

MDFFQX2H7H	**(CK * D0 * S0)**	-0.00007	-0.00006	-0.00003
	(CK * D0 * S0)	0.00018	0.00018	0.00018
	(CK * D0 * S0)	-0.00014	-0.00014	-0.00014
	(CK * D0 * S0)	0.00115	0.00117	0.00120
	(CK * D0 * !S0)	-0.00016	-0.00016	-0.00014
	(CK * D0 * !S0)	-0.00003	-0.00003	-0.00003
	(CK * D0 * !S0)	0.00002	0.00002	0.00002
	(CK * D0 * !S0)	0.00027	0.00027	0.00027
	(CK * !D0 * S0)	-0.00007	-0.00006	-0.00003
	(CK * !D0 * S0)	0.00018	0.00018	0.00018
	(CK * !D0 * S0)	-0.00014	-0.00014	-0.00013
	(CK * !D0 * S0)	0.00115	0.00117	0.00118
	(CK * !D0 * !S0)	-0.00020	-0.00019	-0.00018
	(CK * !D0 * !S0)	-0.00003	-0.00003	-0.00003
	(CK * !D0 * !S0)	0.00002	0.00002	0.00002
	(CK * !D0 * !S0)	0.00024	0.00024	0.00024
	(!CK * D0 * S0)	0.00165	0.00168	0.00170
	(!CK * D0 * S0)	0.00017	0.00017	0.00018
	(!CK * D0 * S0)	-0.00014	-0.00014	-0.00014
	(!CK * D0 * S0)	0.00287	0.00290	0.00291
	(!CK * D0 * !S0)	-0.00016	-0.00016	-0.00014
	(!CK * D0 * !S0)	-0.00003	-0.00003	-0.00003
	(!CK * D0 * !S0)	0.00001	0.00002	0.00002
	(!CK * D0 * !S0)	0.00027	0.00028	0.00028
	(!CK * !D0 * S0)	0.00165	0.00168	0.00170
	(!CK * !D0 * S0)	0.00017	0.00017	0.00018
	(!CK * !D0 * S0)	-0.00014	-0.00014	-0.00013
	(!CK * !D0 * S0)	0.00287	0.00289	0.00291
	(!CK * !D0 * !S0)	-0.00020	-0.00019	-0.00018
	(!CK * !D0 * !S0)	-0.00003	-0.00003	-0.00003
	(!CK * !D0 * !S0)	0.00001	0.00002	0.00002
	(!CK * !D0 * !S0)	0.00023	0.00024	0.00024

Passive power(pJ) for D1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

MDFFQX2H7H	**(CK * D0 * S0)**	0.00164	0.00167	0.00170
	(CK * D0 * S0)	-0.00018	-0.00018	-0.00018
	(CK * D0 * S0)	0.00014	0.00014	0.00014
	(CK * D0 * S0)	0.00043	0.00044	0.00046
	(CK * D0 * !S0)	0.00016	0.00016	0.00016
	(CK * D0 * !S0)	0.00003	0.00003	0.00003
	(CK * D0 * !S0)	-0.00002	-0.00002	-0.00002
	(CK * D0 * !S0)	-0.00027	-0.00026	-0.00025
	(CK * !D0 * S0)	0.00164	0.00167	0.00170
	(CK * !D0 * S0)	-0.00018	-0.00018	-0.00018
	(CK * !D0 * S0)	0.00014	0.00014	0.00015
	(CK * !D0 * S0)	0.00043	0.00044	0.00046
	(CK * !D0 * !S0)	0.00020	0.00020	0.00021
	(CK * !D0 * !S0)	0.00003	0.00003	0.00003
	(CK * !D0 * !S0)	-0.00002	-0.00002	-0.00002
	(CK * !D0 * !S0)	-0.00024	-0.00023	-0.00021
	(!CK * D0 * S0)	0.00267	0.00270	0.00273
	(!CK * D0 * S0)	-0.00018	-0.00017	-0.00017
	(!CK * D0 * S0)	0.00014	0.00014	0.00015
	(!CK * D0 * S0)	0.00146	0.00148	0.00150
	(!CK * D0 * !S0)	0.00016	0.00016	0.00016
	(!CK * D0 * !S0)	0.00003	0.00003	0.00003
	(!CK * D0 * !S0)	-0.00002	-0.00002	-0.00001
	(!CK * D0 * !S0)	-0.00027	-0.00027	-0.00026
	(!CK * !D0 * S0)	0.00267	0.00270	0.00273
	(!CK * !D0 * S0)	-0.00018	-0.00017	-0.00017
	(!CK * !D0 * S0)	0.00013	0.00014	0.00014
	(!CK * !D0 * S0)	0.00146	0.00149	0.00152
	(!CK * !D0 * !S0)	0.00020	0.00020	0.00021
	(!CK * !D0 * !S0)	0.00003	0.00003	0.00003
	(!CK * !D0 * !S0)	-0.00002	-0.00002	-0.00001
	(!CK * !D0 * !S0)	-0.00024	-0.00022	-0.00020

Passive power(pJ) for S0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

MDFFQX2H7H	**(CK * D0 * D1)**	-0.00018	-0.00015	-0.00011
	(CK * D0 * D1)	0.00003	0.00003	0.00004
	(CK * D0 * D1)	-0.00003	-0.00002	-0.00001
	(CK * D0 * D1)	0.00126	0.00128	0.00132
	(CK * D0 * !D1)	0.00120	0.00125	0.00131
	(CK * D0 * !D1)	-0.00013	-0.00012	-0.00010
	(CK * D0 * !D1)	0.00009	0.00010	0.00011
	(CK * D0 * !D1)	0.00202	0.00207	0.00214
	(CK * !D0 * D1)	-0.00029	-0.00023	-0.00015
	(CK * !D0 * D1)	0.00019	0.00019	0.00020
	(CK * !D0 * D1)	-0.00015	-0.00015	-0.00013
	(CK * !D0 * D1)	0.00178	0.00183	0.00189
	(CK * !D0 * !D1)	-0.00018	-0.00015	-0.00009
	(CK * !D0 * !D1)	0.00001	0.00003	0.00003
	(CK * !D0 * !D1)	-0.00003	-0.00003	-0.00002
	(CK * !D0 * !D1)	0.00126	0.00129	0.00134
	(!CK * D0 * D1)	-0.00019	-0.00015	-0.00011
	(!CK * D0 * D1)	0.00003	0.00003	0.00004
	(!CK * D0 * D1)	-0.00003	-0.00002	0.00000
	(!CK * D0 * D1)	0.00126	0.00128	0.00132
	(!CK * D0 * !D1)	0.00223	0.00227	0.00231
	(!CK * D0 * !D1)	-0.00012	-0.00011	-0.00011
	(!CK * D0 * !D1)	0.00009	0.00010	0.00012
	(!CK * D0 * !D1)	0.00306	0.00309	0.00312
	(!CK * !D0 * D1)	0.00145	0.00152	0.00161
	(!CK * !D0 * D1)	0.00018	0.00018	0.00019
	(!CK * !D0 * D1)	-0.00016	-0.00015	-0.00014
	(!CK * !D0 * D1)	0.00351	0.00357	0.00364
	(!CK * !D0 * !D1)	-0.00018	-0.00015	-0.00009
	(!CK * !D0 * !D1)	0.00001	0.00003	0.00003
	(!CK * !D0 * !D1)	-0.00003	-0.00003	-0.00002
	(!CK * !D0 * !D1)	0.00126	0.00129	0.00133

Passive power(pJ) for S0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

MDFFQX2H7H	**(CK * D0 * D1)**	0.00132	0.00135	0.00140
	(CK * D0 * D1)	-0.00003	-0.00003	-0.00003
	(CK * D0 * D1)	0.00002	0.00003	0.00003
	(CK * D0 * D1)	-0.00012	-0.00009	-0.00005
	(CK * D0 * !D1)	0.00173	0.00177	0.00182
	(CK * D0 * !D1)	0.00010	0.00012	0.00013
	(CK * D0 * !D1)	-0.00010	-0.00009	-0.00008
	(CK * D0 * !D1)	0.00090	0.00094	0.00100
	(CK * !D0 * D1)	0.00219	0.00225	0.00233
	(CK * !D0 * D1)	-0.00019	-0.00019	-0.00019
	(CK * !D0 * D1)	0.00015	0.00015	0.00015
	(CK * !D0 * D1)	0.00013	0.00018	0.00026
	(CK * !D0 * !D1)	0.00131	0.00134	0.00139
	(CK * !D0 * !D1)	-0.00003	-0.00003	-0.00001
	(CK * !D0 * !D1)	0.00002	0.00003	0.00003
	(CK * !D0 * !D1)	-0.00013	-0.00010	-0.00005
	(!CK * D0 * D1)	0.00132	0.00135	0.00139
	(!CK * D0 * D1)	-0.00003	-0.00003	-0.00003
	(!CK * D0 * D1)	0.00002	0.00003	0.00003
	(!CK * D0 * D1)	-0.00012	-0.00009	-0.00003
	(!CK * D0 * !D1)	0.00345	0.00347	0.00352
	(!CK * D0 * !D1)	0.00011	0.00011	0.00012
	(!CK * D0 * !D1)	-0.00011	-0.00009	-0.00009
	(!CK * D0 * !D1)	0.00262	0.00264	0.00268
	(!CK * !D0 * D1)	0.00324	0.00330	0.00338
	(!CK * !D0 * D1)	-0.00019	-0.00018	-0.00018
	(!CK * !D0 * D1)	0.00014	0.00015	0.00016
	(!CK * !D0 * D1)	0.00118	0.00124	0.00133
	(!CK * !D0 * !D1)	0.00131	0.00134	0.00139
	(!CK * !D0 * !D1)	-0.00003	-0.00003	-0.00001
	(!CK * !D0 * !D1)	0.00002	0.00003	0.00003
	(!CK * !D0 * !D1)	-0.00013	-0.00010	-0.00005

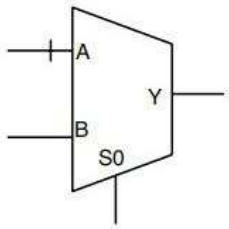
MUX2X0P5H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The MUX2 cell is a 2-to-1 multiplexer. The state of the select input (S0) determines which data input (A, B) is presented to the output (Y). The output (Y) is represented by the logic equation:

WARNING: The output pin Y has the potential to glitch low during a high-to-low transition on the S0 input when A=B=1. Use this cell with caution when driving clock or other control signals in your design.



Truth Table

INPUT			OUTPUT
A	B	S0	Y
0	0	x	0
0	1	0	0
x	1	1	1
1	x	0	1
1	0	1	0

Footprint

Cell Name	Area
MUX2X0P5H7H	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	**B**	**S0**	**Y**
MUX2X0P5H7H	0.00073	0.00083	0.00211	0.03032

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
MUX2X0P5H7H	0.00000	0.02119	0.02331

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MUX2X0P5H7H	A->Y (RR)	-	0.07932	0.24946	0.66931
	B->Y (RR)	-	0.07835	0.24907	0.66977
	S0->Y (RR)	(!A * B)	0.06644	0.22953	0.62647
	S0->Y (FR)	(A * !B)	0.10774	0.27773	0.68666

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MUX2X0P5H7H	A->Y (FF)	-	0.09899	0.24224	0.58684
	B->Y (FF)	-	0.10303	0.24514	0.58865
	S0->Y (FF)	(!A * B)	0.08132	0.21507	0.53688
	S0->Y (RF)	(A * !B)	0.11575	0.24266	0.53007

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MUX2X0P5H7H	A	-	0.00061	0.00065	0.00070
	A	-	0.00008	0.00008	0.00008
	A	-	-0.00006	-0.00006	-0.00006
	A	-	0.00149	0.00154	0.00158
	B	-	0.00040	0.00045	0.00050
	B	-	0.00007	0.00008	0.00008
	B	-	-0.00006	-0.00006	-0.00006
	B	-	0.00136	0.00142	0.00147
	S0	(A * !B)	0.00175	0.00181	0.00188
	S0	(A * !B)	0.00007	0.00007	0.00007
	S0	(A * !B)	-0.00003	-0.00003	0.00000
	S0	(A * !B)	0.00097	0.00103	0.00109
	S0	(!A * B)	0.00025	0.00033	0.00042
	S0	(!A * B)	0.00010	0.00011	0.00011
	S0	(!A * B)	-0.00008	-0.00007	-0.00007
	S0	(!A * B)	0.00197	0.00205	0.00214

Internal switching power(pJ) to Y falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MUX2X0P5H7H	A	-	0.00128	0.00132	0.00136
	A	-	-0.00008	-0.00008	-0.00008
	A	-	0.00006	0.00006	0.00006
	A	-	0.00038	0.00043	0.00047
	B	-	0.00148	0.00153	0.00158
	B	-	-0.00008	-0.00008	-0.00007
	B	-	0.00006	0.00006	0.00006
	B	-	0.00053	0.00058	0.00063
	S0	(A * !B)	0.00112	0.00120	0.00128
	S0	(A * !B)	-0.00005	-0.00004	-0.00002
	S0	(A * !B)	0.00000	0.00005	0.00007
	S0	(A * !B)	0.00192	0.00200	0.00208
	S0	(!A * B)	0.00185	0.00194	0.00202
	S0	(!A * B)	-0.00009	-0.00008	-0.00008
	S0	(!A * B)	0.00009	0.00009	0.00010
	S0	(!A * B)	0.00013	0.00022	0.00030

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X0P5H7H	(B * S0 * Y) + (!B * S0 * !Y)	-0.00009	-0.00008	-0.00007
	(B * S0 * Y) + (!B * S0 * !Y)	-0.00002	-0.00002	-0.00002
	(B * S0 * Y) + (!B * S0 * !Y)	0.00001	0.00001	0.00001
	(B * S0 * Y) + (!B * S0 * !Y)	0.00024	0.00024	0.00024

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X0P5H7H	(B * S0 * Y) + (!B * S0 * !Y)	0.00009	0.00009	0.00009
	(B * S0 * Y) + (!B * S0 * !Y)	0.00002	0.00002	0.00002
	(B * S0 * Y) + (!B * S0 * !Y)	-0.00001	-0.00001	-0.00001
	(B * S0 * Y) + (!B * S0 * !Y)	-0.00024	-0.00024	-0.00023

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X0P5H7H	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00011	-0.00011	-0.00010
	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00002	-0.00002	-0.00002
	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00001	0.00001	0.00001
	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00027	0.00028	0.00028

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X0P5H7H	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00011	0.00011	0.00011
	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00002	0.00002	0.00002
	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00001	-0.00001	-0.00001
	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00028	-0.00027	-0.00026

Passive power(pJ) for S0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X0P5H7H	(A * B * Y)	-0.00013	-0.00011	-0.00008
	(A * B * Y)	0.00002	0.00002	0.00002
	(A * B * Y)	-0.00002	-0.00002	-0.00001
	(A * B * Y)	0.00114	0.00116	0.00120
	(!A * !B * !Y)	-0.00016	-0.00013	-0.00010
	(!A * !B * !Y)	0.00002	0.00002	0.00003
	(!A * !B * !Y)	-0.00002	-0.00002	-0.00000
	(!A * !B * !Y)	0.00110	0.00112	0.00114

Passive power(pJ) for S0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X0P5H7H	(A * B * Y)	0.00098	0.00100	0.00103
	(A * B * Y)	-0.00002	-0.00002	-0.00000
	(A * B * Y)	0.00002	0.00002	0.00002
	(A * B * Y)	-0.00029	-0.00027	-0.00025
	(!A * !B * !Y)	0.00099	0.00101	0.00104
	(!A * !B * !Y)	-0.00002	-0.00002	-0.00001
	(!A * !B * !Y)	0.00002	0.00002	0.00002
	(!A * !B * !Y)	-0.00027	-0.00024	-0.00021

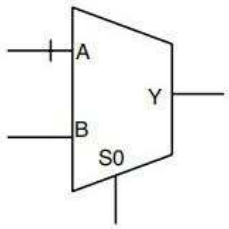
MUX2X0P7H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The MUX2 cell is a 2-to-1 multiplexer. The state of the select input (S0) determines which data input (A, B) is presented to the output (Y). The output (Y) is represented by the logic equation:

WARNING: The output pin Y has the potential to glitch low during a high-to-low transition on the S0 input when A=B=1. Use this cell with caution when driving clock or other control signals in your design.



Truth Table

INPUT			OUTPUT
A	B	S0	Y
0	0	x	0
0	1	0	0
x	1	1	1
1	x	0	1
1	0	1	0

Footprint

Cell Name	Area
MUX2X0P7H7H	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	**B**	**S0**	**Y**
MUX2X0P7H7H	0.00073	0.00084	0.00210	0.03440

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
MUX2X0P7H7H	0.00000	0.02206	0.02536

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MUX2X0P7H7H	A->Y (RR)	-	0.07814	0.24882	0.66957
	B->Y (RR)	-	0.07731	0.24854	0.67013
	S0->Y (RR)	(!A * B)	0.06528	0.22919	0.62783
	S0->Y (FR)	(A * !B)	0.10653	0.27684	0.68565

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MUX2X0P7H7H	A->Y (FF)	-	0.09892	0.24363	0.59092
	B->Y (FF)	-	0.10310	0.24666	0.59284
	S0->Y (FF)	(!A * B)	0.08132	0.21681	0.54218
	S0->Y (RF)	(A * !B)	0.11553	0.24372	0.53259

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MUX2X0P7H7H	A	-	0.00063	0.00068	0.00073
	A	-	0.00007	0.00007	0.00007
	A	-	-0.00006	-0.00006	-0.00006
	A	-	0.00151	0.00156	0.00161
	B	-	0.00042	0.00048	0.00053
	B	-	0.00007	0.00007	0.00007
	B	-	-0.00006	-0.00006	-0.00005
	B	-	0.00138	0.00144	0.00149
	S0	(A * !B)	0.00178	0.00184	0.00191
	S0	(A * !B)	0.00006	0.00006	0.00006
	S0	(A * !B)	-0.00003	-0.00003	-0.00001
	S0	(A * !B)	0.00098	0.00105	0.00112
	S0	(!A * B)	0.00028	0.00036	0.00045
	S0	(!A * B)	0.00010	0.00010	0.00010
	S0	(!A * B)	-0.00008	-0.00007	-0.00005
	S0	(!A * B)	0.00198	0.00207	0.00216

Internal switching power(pJ) to Y falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MUX2X0P7H7H	A	-	0.00130	0.00134	0.00139
	A	-	-0.00007	-0.00007	-0.00007
	A	-	0.00006	0.00006	0.00006
	A	-	0.00041	0.00046	0.00050
	B	-	0.00150	0.00155	0.00161
	B	-	-0.00007	-0.00007	-0.00007
	B	-	0.00006	0.00006	0.00006
	B	-	0.00055	0.00061	0.00066
	S0	(A * !B)	0.00114	0.00122	0.00130
	S0	(A * !B)	-0.00005	-0.00004	-0.00002
	S0	(A * !B)	0.00001	0.00004	0.00010
	S0	(A * !B)	0.00194	0.00202	0.00210
	S0	(!A * B)	0.00188	0.00196	0.00205
	S0	(!A * B)	-0.00008	-0.00008	-0.00008
	S0	(!A * B)	0.00008	0.00008	0.00009
	S0	(!A * B)	0.00016	0.00025	0.00034

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X0P7H7H	(B * S0 * Y) + (!B * S0 * !Y)	-0.00009	-0.00008	-0.00007
	(B * S0 * Y) + (!B * S0 * !Y)	-0.00002	-0.00002	-0.00002
	(B * S0 * Y) + (!B * S0 * !Y)	0.00001	0.00001	0.00001
	(B * S0 * Y) + (!B * S0 * !Y)	0.00024	0.00024	0.00025

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X0P7H7H	(B * S0 * Y) + (!B * S0 * !Y)	0.00009	0.00009	0.00009
	(B * S0 * Y) + (!B * S0 * !Y)	0.00002	0.00002	0.00002
	(B * S0 * Y) + (!B * S0 * !Y)	-0.00001	-0.00001	-0.00001
	(B * S0 * Y) + (!B * S0 * !Y)	-0.00024	-0.00024	-0.00023

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X0P7H7H	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00011	-0.00011	-0.00010
	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00002	-0.00002	-0.00002
	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00001	0.00001	0.00001
	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00028	0.00028	0.00028

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X0P7H7H	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00011	0.00011	0.00011
	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00002	0.00002	0.00002
	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00001	-0.00001	-0.00001
	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00028	-0.00027	-0.00026

Passive power(pJ) for S0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X0P7H7H	(A * B * Y)	-0.00013	-0.00011	-0.00008
	(A * B * Y)	0.00002	0.00002	0.00002
	(A * B * Y)	-0.00002	-0.00002	-0.00001
	(A * B * Y)	0.00114	0.00116	0.00118
	(!A * !B * !Y)	-0.00016	-0.00013	-0.00010
	(!A * !B * !Y)	0.00001	0.00002	0.00002
	(!A * !B * !Y)	-0.00002	-0.00002	0.00000
	(!A * !B * !Y)	0.00110	0.00112	0.00114

Passive power(pJ) for S0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X0P7H7H	(A * B * Y)	0.00098	0.00100	0.00103
	(A * B * Y)	-0.00002	-0.00002	-0.00000
	(A * B * Y)	0.00002	0.00002	0.00002
	(A * B * Y)	-0.00029	-0.00027	-0.00024
	(!A * !B * !Y)	0.00099	0.00101	0.00104
	(!A * !B * !Y)	-0.00002	-0.00002	-0.00000
	(!A * !B * !Y)	0.00002	0.00002	0.00002
	(!A * !B * !Y)	-0.00027	-0.00024	-0.00021

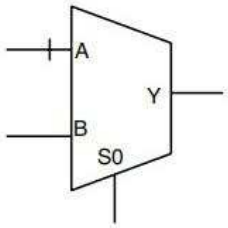
MUX2X12H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The MUX2 cell is a 2-to-1 multiplexer. The state of the select input (S0) determines which data input (A, B) is presented to the output (Y). The output (Y) is represented by the logic equation:

WARNING: The output pin Y has the potential to glitch low during a high-to-low transition on the S0 input when A=B=1. Use this cell with caution when driving clock or other control signals in your design.



Truth Table

INPUT			OUTPUT
A	B	S0	Y
0	0	x	0
0	1	0	0
x	1	1	1
1	x	0	1
1	0	1	0

Footprint

Cell Name	Area
MUX2X12H7H	8.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	**B**	**S0**	**Y**
MUX2X12H7H	0.00300	0.00312	0.00510	0.33661

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
MUX2X12H7H	0.00000	0.21699	0.26498

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MUX2X12H7H	A->Y (RR)	-	0.08072	0.26480	0.70911
	B->Y (RR)	-	0.07316	0.25781	0.70189
	S0->Y (RR)	(!A * B)	0.06450	0.24465	0.67531
	S0->Y (FR)	(A * !B)	0.10306	0.29204	0.73748

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MUX2X12H7H	A->Y (FF)	-	0.09378	0.25759	0.63573
	B->Y (FF)	-	0.09584	0.25738	0.63042
	S0->Y (FF)	(!A * B)	0.08284	0.23949	0.60294
	S0->Y (RF)	(A * !B)	0.09926	0.25468	0.59124

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MUX2X12H7H	A	-	0.00469	0.00505	0.00545
	A	-	0.00028	0.00029	0.00031
	A	-	-0.00023	-0.00023	-0.00022
	A	-	0.00828	0.00865	0.00905
	B	-	0.00360	0.00396	0.00438
	B	-	0.00028	0.00029	0.00031
	B	-	-0.00024	-0.00023	-0.00022
	B	-	0.00729	0.00766	0.00807
	S0	(A * !B)	0.00841	0.00893	0.00968
	S0	(A * !B)	0.00000	0.00001	0.00004
	S0	(A * !B)	0.00000	0.00003	0.00004
	S0	(A * !B)	0.00610	0.00662	0.00734
	S0	(!A * B)	0.00379	0.00427	0.00475
	S0	(!A * B)	0.00007	0.00009	0.00013
	S0	(!A * B)	-0.00006	-0.00005	-0.00005
	S0	(!A * B)	0.00764	0.00810	0.00858

Internal switching power(pJ) to Y falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MUX2X12H7H	A	-	0.00811	0.00846	0.00883
	A	-	-0.00030	-0.00029	-0.00028
	A	-	0.00022	0.00023	0.00024
	A	-	0.00450	0.00485	0.00523
	B	-	0.00883	0.00920	0.00958
	B	-	-0.00030	-0.00029	-0.00028
	B	-	0.00022	0.00023	0.00024
	B	-	0.00513	0.00550	0.00589
	S0	(A * !B)	0.00688	0.00741	0.00813
	S0	(A * !B)	-0.00001	-0.00001	0.00001
	S0	(A * !B)	-0.00003	-0.00003	0.00000
	S0	(A * !B)	0.00917	0.00973	0.01056
	S0	(!A * B)	0.00814	0.00858	0.00904
	S0	(!A * B)	-0.00010	-0.00008	-0.00005
	S0	(!A * B)	0.00005	0.00006	0.00014
	S0	(!A * B)	0.00430	0.00475	0.00522

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X12H7H	(B * S0 * Y) + (!B * S0 * !Y)	-0.00046	-0.00038	-0.00030
	(B * S0 * Y) + (!B * S0 * !Y)	0.00023	0.00024	0.00025
	(B * S0 * Y) + (!B * S0 * !Y)	-0.00022	-0.00022	-0.00022
	(B * S0 * Y) + (!B * S0 * !Y)	0.00239	0.00246	0.00256

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X12H7H	(B * S0 * Y) + (!B * S0 * !Y)	0.00284	0.00290	0.00303
	(B * S0 * Y) + (!B * S0 * !Y)	-0.00025	-0.00024	-0.00023
	(B * S0 * Y) + (!B * S0 * !Y)	0.00022	0.00022	0.00022
	(B * S0 * Y) + (!B * S0 * !Y)	-0.00001	0.00005	0.00017

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X12H7H	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00024	-0.00018	-0.00007
	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00025	0.00025	0.00027
	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00022	-0.00022	-0.00022
	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00270	0.00277	0.00287

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X12H7H	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00241	0.00248	0.00261
	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00025	-0.00025	-0.00024
	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00022	0.00022	0.00022
	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00053	-0.00046	-0.00034

Passive power(pJ) for S0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X12H7H	(A * B * Y)	-0.00027	-0.00022	-0.00017
	(A * B * Y)	0.00003	0.00004	0.00006
	(A * B * Y)	-0.00004	-0.00004	-0.00001
	(A * B * Y)	0.00280	0.00285	0.00291
	(!A * !B * !Y)	-0.00015	-0.00011	-0.00002
	(!A * !B * !Y)	0.00002	0.00003	0.00004
	(!A * !B * !Y)	-0.00004	-0.00003	0.00000
	(!A * !B * !Y)	0.00291	0.00296	0.00300

Passive power(pJ) for S0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X12H7H	(A * B * Y)	0.00277	0.00281	0.00287
	(A * B * Y)	-0.00004	-0.00003	-0.00000
	(A * B * Y)	0.00004	0.00005	0.00007
	(A * B * Y)	-0.00032	-0.00026	-0.00020
	(!A * !B * !Y)	0.00265	0.00269	0.00274
	(!A * !B * !Y)	-0.00004	-0.00003	0.00001
	(!A * !B * !Y)	0.00003	0.00004	0.00005
	(!A * !B * !Y)	-0.00043	-0.00038	-0.00030

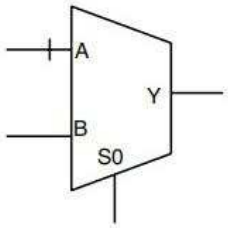
MUX2X16H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The MUX2 cell is a 2-to-1 multiplexer. The state of the select input (S0) determines which data input (A, B) is presented to the output (Y). The output (Y) is represented by the logic equation:

WARNING: The output pin Y has the potential to glitch low during a high-to-low transition on the S0 input when A=B=1. Use this cell with caution when driving clock or other control signals in your design.



Truth Table

INPUT			OUTPUT
A	B	S0	Y
0	0	x	0
0	1	0	0
x	1	1	1
1	x	0	1
1	0	1	0

Footprint

Cell Name	Area
MUX2X16H7H	12.60000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	**B**	**S0**	**Y**
MUX2X16H7H	0.00400	0.00419	0.00661	0.45599

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
MUX2X16H7H	0.00000	0.28120	0.33759

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MUX2X16H7H	A->Y (RR)	-	0.08569	0.27115	0.71780
	B->Y (RR)	-	0.07532	0.26177	0.70911
	S0->Y (RR)	(!A * B)	0.06741	0.24943	0.68404
	S0->Y (FR)	(A * !B)	0.11778	0.31246	0.77485

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MUX2X16H7H	A->Y (FF)	-	0.09642	0.26262	0.64593
	B->Y (FF)	-	0.09942	0.26286	0.64042
	S0->Y (FF)	(!A * B)	0.08621	0.24299	0.60626
	S0->Y (RF)	(A * !B)	0.10823	0.26984	0.62304

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MUX2X16H7H	A	-	0.00645	0.00693	0.00750
	A	-	0.00038	0.00040	0.00044
	A	-	-0.00031	-0.00031	-0.00027
	A	-	0.01145	0.01194	0.01250
	B	-	0.00496	0.00547	0.00604
	B	-	0.00038	0.00040	0.00041
	B	-	-0.00031	-0.00030	-0.00026
	B	-	0.01000	0.01051	0.01108
	S0	(A * !B)	0.01164	0.01238	0.01347
	S0	(A * !B)	0.00001	0.00003	0.00005
	S0	(A * !B)	0.00000	0.00003	0.00004
	S0	(A * !B)	0.00881	0.00955	0.01068
	S0	(!A * B)	0.00520	0.00584	0.00650
	S0	(!A * B)	0.00003	0.00011	0.00015
	S0	(!A * B)	-0.00006	-0.00005	0.00000
	S0	(!A * B)	0.01014	0.01078	0.01143

Internal switching power(pJ) to Y falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MUX2X16H7H	A	-	0.01150	0.01199	0.01249
	A	-	-0.00041	-0.00040	-0.00036
	A	-	0.00030	0.00031	0.00032
	A	-	0.00649	0.00698	0.00749
	B	-	0.01241	0.01291	0.01345
	B	-	-0.00041	-0.00040	-0.00038
	B	-	0.00030	0.00031	0.00032
	B	-	0.00735	0.00785	0.00841
	S0	(A * !B)	0.00981	0.01067	0.01178
	S0	(A * !B)	-0.00004	-0.00003	-0.00001
	S0	(A * !B)	-0.00003	-0.00002	0.00000
	S0	(A * !B)	0.01263	0.01349	0.01466
	S0	(!A * B)	0.01127	0.01187	0.01250
	S0	(!A * B)	-0.00013	-0.00010	-0.00003
	S0	(!A * B)	0.00000	0.00005	0.00006
	S0	(!A * B)	0.00630	0.00692	0.00757

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X16H7H	(B * S0 * Y) + (!B * S0 * !Y)	-0.00061	-0.00052	-0.00041
	(B * S0 * Y) + (!B * S0 * !Y)	0.00033	0.00034	0.00035
	(B * S0 * Y) + (!B * S0 * !Y)	-0.00030	-0.00029	-0.00029
	(B * S0 * Y) + (!B * S0 * !Y)	0.00333	0.00343	0.00354

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X16H7H	(B * S0 * Y) + (!B * S0 * !Y)	0.00399	0.00407	0.00423
	(B * S0 * Y) + (!B * S0 * !Y)	-0.00034	-0.00033	-0.00032
	(B * S0 * Y) + (!B * S0 * !Y)	0.00029	0.00030	0.00030
	(B * S0 * Y) + (!B * S0 * !Y)	0.00004	0.00012	0.00028

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X16H7H	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00026	-0.00015	-0.00002
	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00029	0.00032	0.00033
	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00030	-0.00029	-0.00029
	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00373	0.00383	0.00395

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X16H7H	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00344	0.00354	0.00370
	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00033	-0.00032	-0.00029
	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00029	0.00029	0.00030
	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00056	-0.00046	-0.00032

Passive power(pJ) for S0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X16H7H	(A * B * Y)	-0.00029	-0.00022	-0.00013
	(A * B * Y)	0.00002	0.00003	0.00005
	(A * B * Y)	-0.00004	-0.00003	-0.00000
	(A * B * Y)	0.00361	0.00365	0.00371
	(!A * !B * !Y)	-0.00024	-0.00019	-0.00005
	(!A * !B * !Y)	0.00000	0.00003	0.00006
	(!A * !B * !Y)	-0.00004	-0.00003	0.00000
	(!A * !B * !Y)	0.00363	0.00369	0.00378

Passive power(pJ) for S0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X16H7H	(A * B * Y)	0.00348	0.00355	0.00366
	(A * B * Y)	-0.00004	-0.00003	-0.00002
	(A * B * Y)	0.00000	0.00003	0.00005
	(A * B * Y)	-0.00040	-0.00033	-0.00021
	(!A * !B * !Y)	0.00345	0.00350	0.00358
	(!A * !B * !Y)	-0.00006	-0.00003	0.00000
	(!A * !B * !Y)	0.00000	0.00003	0.00004
	(!A * !B * !Y)	-0.00044	-0.00038	-0.00024

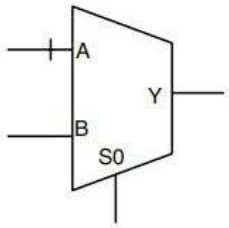
MUX2X1H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The MUX2 cell is a 2-to-1 multiplexer. The state of the select input (S0) determines which data input (A, B) is presented to the output (Y). The output (Y) is represented by the logic equation:

WARNING: The output pin Y has the potential to glitch low during a high-to-low transition on the S0 input when A=B=1. Use this cell with caution when driving clock or other control signals in your design.



Truth Table

INPUT			OUTPUT
A	B	S0	Y
0	0	x	0
0	1	0	0
x	1	1	1
1	x	0	1
1	0	1	0

Footprint

Cell Name	Area
MUX2X1H7H	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	**B**	**S0**	**Y**
MUX2X1H7H	0.00073	0.00084	0.00211	0.04108

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
MUX2X1H7H	0.00000	0.02412	0.02976

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MUX2X1H7H	A->Y (RR)	-	0.07729	0.24920	0.67219
	B->Y (RR)	-	0.07643	0.24892	0.67321
	S0->Y (RR)	(!A * B)	0.06441	0.22991	0.63168
	S0->Y (FR)	(A * !B)	0.10558	0.27672	0.68645

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MUX2X1H7H	A->Y (FF)	-	0.09990	0.24907	0.60631
	B->Y (FF)	-	0.10403	0.25209	0.60832
	S0->Y (FF)	(!A * B)	0.08239	0.22264	0.55905
	S0->Y (RF)	(A * !B)	0.11636	0.24860	0.54560

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MUX2X1H7H	A	-	0.00068	0.00073	0.00078
	A	-	0.00006	0.00007	0.00007
	A	-	-0.00006	-0.00006	-0.00005
	A	-	0.00155	0.00160	0.00165
	B	-	0.00047	0.00053	0.00058
	B	-	0.00007	0.00007	0.00007
	B	-	-0.00006	-0.00006	-0.00005
	B	-	0.00142	0.00148	0.00153
	S0	(A * !B)	0.00182	0.00189	0.00196
	S0	(A * !B)	0.00005	0.00006	0.00006
	S0	(A * !B)	-0.00003	-0.00002	-0.00002
	S0	(A * !B)	0.00102	0.00109	0.00116
	S0	(!A * B)	0.00032	0.00041	0.00050
	S0	(!A * B)	0.00009	0.00010	0.00010
	S0	(!A * B)	-0.00006	-0.00006	-0.00005
	S0	(!A * B)	0.00202	0.00211	0.00221

Internal switching power(pJ) to Y falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MUX2X1H7H	A	-	0.00133	0.00138	0.00142
	A	-	-0.00007	-0.00007	-0.00006
	A	-	0.00005	0.00006	0.00006
	A	-	0.00045	0.00050	0.00055
	B	-	0.00153	0.00159	0.00165
	B	-	-0.00007	-0.00007	-0.00007
	B	-	0.00005	0.00006	0.00006
	B	-	0.00059	0.00065	0.00071
	S0	(A * !B)	0.00118	0.00126	0.00134
	S0	(A * !B)	-0.00003	-0.00003	-0.00003
	S0	(A * !B)	0.00004	0.00004	0.00004
	S0	(A * !B)	0.00199	0.00207	0.00215
	S0	(!A * B)	0.00191	0.00199	0.00209
	S0	(!A * B)	-0.00009	-0.00007	-0.00001
	S0	(!A * B)	0.00008	0.00008	0.00008
	S0	(!A * B)	0.00021	0.00030	0.00039

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X1H7H	(B * S0 * Y) + (!B * S0 * !Y)	-0.00009	-0.00008	-0.00007
	(B * S0 * Y) + (!B * S0 * !Y)	-0.00002	-0.00002	-0.00002
	(B * S0 * Y) + (!B * S0 * !Y)	0.00001	0.00001	0.00001
	(B * S0 * Y) + (!B * S0 * !Y)	0.00024	0.00024	0.00024

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X1H7H	(B * S0 * Y) + (!B * S0 * !Y)	0.00009	0.00009	0.00009
	(B * S0 * Y) + (!B * S0 * !Y)	0.00002	0.00002	0.00002
	(B * S0 * Y) + (!B * S0 * !Y)	-0.00001	-0.00001	-0.00001
	(B * S0 * Y) + (!B * S0 * !Y)	-0.00024	-0.00024	-0.00023

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X1H7H	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00011	-0.00011	-0.00010
	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00002	-0.00002	-0.00002
	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00001	0.00001	0.00002
	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00028	0.00028	0.00029

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X1H7H	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00011	0.00011	0.00012
	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00002	0.00002	0.00002
	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00002	-0.00001	-0.00001
	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00028	-0.00027	-0.00026

Passive power(pJ) for S0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X1H7H	(A * B * Y)	-0.00013	-0.00011	-0.00008
	(A * B * Y)	0.00002	0.00002	0.00003
	(A * B * Y)	-0.00002	-0.00002	-0.00001
	(A * B * Y)	0.00114	0.00116	0.00120
	(!A * !B * !Y)	-0.00016	-0.00013	-0.00010
	(!A * !B * !Y)	0.00001	0.00002	0.00002
	(!A * !B * !Y)	-0.00002	-0.00002	-0.00002
	(!A * !B * !Y)	0.00110	0.00112	0.00116

Passive power(pJ) for S0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X1H7H	(A * B * Y)	0.00098	0.00100	0.00103
	(A * B * Y)	-0.00003	-0.00002	-0.00002
	(A * B * Y)	0.00002	0.00002	0.00002
	(A * B * Y)	-0.00029	-0.00027	-0.00023
	(!A * !B * !Y)	0.00099	0.00101	0.00104
	(!A * !B * !Y)	-0.00002	-0.00002	-0.00000
	(!A * !B * !Y)	0.00002	0.00002	0.00002
	(!A * !B * !Y)	-0.00027	-0.00024	-0.00021

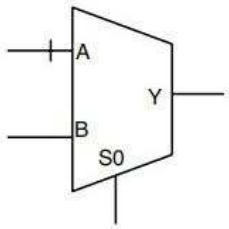
MUX2X1P4H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The MUX2 cell is a 2-to-1 multiplexer. The state of the select input (S0) determines which data input (A, B) is presented to the output (Y). The output (Y) is represented by the logic equation:

WARNING: The output pin Y has the potential to glitch low during a high-to-low transition on the S0 input when A=B=1. Use this cell with caution when driving clock or other control signals in your design.



Truth Table

INPUT			OUTPUT
A	B	S0	Y
0	0	x	0
0	1	0	0
x	1	1	1
1	x	0	1
1	0	1	0

Footprint

Cell Name	Area
MUX2X1P4H7H	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	**B**	**S0**	**Y**
MUX2X1P4H7H	0.00073	0.00084	0.00211	0.04689

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
MUX2X1P4H7H	0.00000	0.02691	0.03517

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MUX2X1P4H7H	A->Y (RR)	-	0.07701	0.25022	0.67609
	B->Y (RR)	-	0.07614	0.24991	0.67662
	S0->Y (RR)	(!A * B)	0.06418	0.23131	0.63637
	S0->Y (FR)	(A * !B)	0.10519	0.27727	0.68825

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MUX2X1P4H7H	A->Y (FF)	-	0.10061	0.25213	0.61421
	B->Y (FF)	-	0.10473	0.25515	0.61613
	S0->Y (FF)	(!A * B)	0.08324	0.22614	0.56829
	S0->Y (RF)	(A * !B)	0.11684	0.25117	0.55148

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MUX2X1P4H7H	A	-	0.00071	0.00077	0.00082
	A	-	0.00006	0.00006	0.00006
	A	-	-0.00005	-0.00005	-0.00003
	A	-	0.00157	0.00163	0.00168
	B	-	0.00050	0.00057	0.00062
	B	-	0.00006	0.00006	0.00006
	B	-	-0.00005	-0.00005	-0.00004
	B	-	0.00145	0.00151	0.00156
	S0	(A * !B)	0.00186	0.00193	0.00199
	S0	(A * !B)	0.00005	0.00005	0.00005
	S0	(A * !B)	-0.00002	-0.00002	-0.00002
	S0	(A * !B)	0.00104	0.00111	0.00118
	S0	(!A * B)	0.00036	0.00045	0.00055
	S0	(!A * B)	0.00009	0.00009	0.00010
	S0	(!A * B)	-0.00008	-0.00006	-0.00006
	S0	(!A * B)	0.00205	0.00214	0.00224

Internal switching power(pJ) to Y falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MUX2X1P4H7H	A	-	0.00136	0.00141	0.00146
	A	-	-0.00006	-0.00006	-0.00006
	A	-	0.00005	0.00005	0.00005
	A	-	0.00049	0.00054	0.00060
	B	-	0.00156	0.00162	0.00168
	B	-	-0.00006	-0.00006	-0.00006
	B	-	0.00005	0.00005	0.00005
	B	-	0.00063	0.00069	0.00075
	S0	(A * !B)	0.00120	0.00129	0.00137
	S0	(A * !B)	-0.00003	-0.00003	-0.00002
	S0	(A * !B)	0.00003	0.00003	0.00004
	S0	(A * !B)	0.00202	0.00211	0.00219
	S0	(!A * B)	0.00194	0.00203	0.00213
	S0	(!A * B)	-0.00007	-0.00007	-0.00007
	S0	(!A * B)	0.00007	0.00007	0.00008
	S0	(!A * B)	0.00025	0.00034	0.00044

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X1P4H7H	(B * S0 * Y) + (!B * S0 * !Y)	-0.00009	-0.00008	-0.00007
	(B * S0 * Y) + (!B * S0 * !Y)	-0.00002	-0.00002	-0.00002
	(B * S0 * Y) + (!B * S0 * !Y)	0.00001	0.00001	0.00001
	(B * S0 * Y) + (!B * S0 * !Y)	0.00024	0.00024	0.00025

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X1P4H7H	(B * S0 * Y) + (!B * S0 * !Y)	0.00009	0.00009	0.00009
	(B * S0 * Y) + (!B * S0 * !Y)	0.00002	0.00002	0.00002
	(B * S0 * Y) + (!B * S0 * !Y)	-0.00001	-0.00001	-0.00001
	(B * S0 * Y) + (!B * S0 * !Y)	-0.00024	-0.00024	-0.00023

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X1P4H7H	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00011	-0.00011	-0.00010
	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00002	-0.00002	-0.00002
	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00001	0.00001	0.00001
	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00028	0.00028	0.00029

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X1P4H7H	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00011	0.00011	0.00012
	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00002	0.00002	0.00003
	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00001	-0.00001	-0.00001
	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00028	-0.00028	-0.00027

Passive power(pJ) for S0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X1P4H7H	(A * B * Y)	-0.00013	-0.00011	-0.00008
	(A * B * Y)	0.00002	0.00002	0.00003
	(A * B * Y)	-0.00002	-0.00002	-0.00001
	(A * B * Y)	0.00114	0.00116	0.00120
	(!A * !B * !Y)	-0.00016	-0.00013	-0.00010
	(!A * !B * !Y)	0.00001	0.00002	0.00002
	(!A * !B * !Y)	-0.00002	-0.00002	-0.00001
	(!A * !B * !Y)	0.00110	0.00112	0.00114

Passive power(pJ) for S0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X1P4H7H	(A * B * Y)	0.00098	0.00100	0.00103
	(A * B * Y)	-0.00002	-0.00002	-0.00002
	(A * B * Y)	0.00002	0.00002	0.00003
	(A * B * Y)	-0.00029	-0.00027	-0.00023
	(!A * !B * !Y)	0.00099	0.00101	0.00104
	(!A * !B * !Y)	-0.00002	-0.00001	-0.00000
	(!A * !B * !Y)	0.00002	0.00002	0.00002
	(!A * !B * !Y)	-0.00027	-0.00024	-0.00021

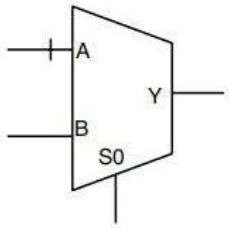
MUX2X2H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The MUX2 cell is a 2-to-1 multiplexer. The state of the select input (S0) determines which data input (A, B) is presented to the output (Y). The output (Y) is represented by the logic equation:

WARNING: The output pin Y has the potential to glitch low during a high-to-low transition on the S0 input when A=B=1. Use this cell with caution when driving clock or other control signals in your design.



Truth Table

INPUT			OUTPUT
A	B	S0	Y
0	0	x	0
0	1	0	0
x	1	1	1
1	x	0	1
1	0	1	0

Footprint

Cell Name	Area
MUX2X2H7H	3.92000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	**B**	**S0**	**Y**
MUX2X2H7H	0.00082	0.00097	0.00200	0.06039

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
MUX2X2H7H	0.00000	0.03722	0.04139

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MUX2X2H7H	A->Y (RR)	-	0.09246	0.27409	0.71578
	B->Y (RR)	-	0.08752	0.26805	0.70619
	S0->Y (RR)	(!A * B)	0.07509	0.25236	0.67872
	S0->Y (FR)	(A * !B)	0.11065	0.29389	0.72661

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MUX2X2H7H	A->Y (FF)	-	0.11271	0.27180	0.64384
	B->Y (FF)	-	0.11234	0.26848	0.63412
	S0->Y (FF)	(!A * B)	0.09539	0.24639	0.60126
	S0->Y (RF)	(A * !B)	0.11162	0.25847	0.57724

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MUX2X2H7H	A	-	0.00110	0.00117	0.00126
	A	-	0.00007	0.00007	0.00008
	A	-	-0.00006	-0.00006	-0.00005
	A	-	0.00209	0.00216	0.00225
	B	-	0.00076	0.00085	0.00095
	B	-	0.00007	0.00007	0.00008
	B	-	-0.00006	-0.00006	-0.00005
	B	-	0.00182	0.00191	0.00201
	S0	(A * !B)	0.00260	0.00269	0.00286
	S0	(A * !B)	0.00000	0.00000	0.00001
	S0	(A * !B)	0.00001	0.00001	0.00001
	S0	(A * !B)	0.00158	0.00167	0.00184
	S0	(!A * B)	0.00076	0.00088	0.00102
	S0	(!A * B)	0.00004	0.00004	0.00005
	S0	(!A * B)	-0.00003	-0.00003	-0.00003
	S0	(!A * B)	0.00233	0.00245	0.00258

Internal switching power(pJ) to Y falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MUX2X2H7H	A	-	0.00207	0.00214	0.00222
	A	-	-0.00007	-0.00007	-0.00005
	A	-	0.00005	0.00006	0.00006
	A	-	0.00107	0.00115	0.00123
	B	-	0.00225	0.00234	0.00243
	B	-	-0.00007	-0.00007	-0.00007
	B	-	0.00006	0.00006	0.00006
	B	-	0.00119	0.00127	0.00137
	S0	(A * !B)	0.00172	0.00181	0.00197
	S0	(A * !B)	-0.00001	-0.00000	0.00001
	S0	(A * !B)	-0.00001	-0.00001	-0.00001
	S0	(A * !B)	0.00274	0.00283	0.00301
	S0	(!A * B)	0.00259	0.00270	0.00283
	S0	(!A * B)	-0.00005	-0.00004	-0.00003
	S0	(!A * B)	0.00003	0.00003	0.00005
	S0	(!A * B)	0.00102	0.00113	0.00126

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X2H7H	(B * S0 * Y) + (!B * S0 * !Y)	-0.00010	-0.00008	-0.00005
	(B * S0 * Y) + (!B * S0 * !Y)	0.00005	0.00005	0.00005
	(B * S0 * Y) + (!B * S0 * !Y)	-0.00005	-0.00005	-0.00005
	(B * S0 * Y) + (!B * S0 * !Y)	0.00062	0.00064	0.00067

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X2H7H	(B * S0 * Y) + (!B * S0 * !Y)	0.00072	0.00074	0.00078
	(B * S0 * Y) + (!B * S0 * !Y)	-0.00005	-0.00005	-0.00005
	(B * S0 * Y) + (!B * S0 * !Y)	0.00005	0.00005	0.00005
	(B * S0 * Y) + (!B * S0 * !Y)	0.00000	0.00002	0.00006

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X2H7H	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00004	-0.00002	0.00001
	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00005	0.00005	0.00005
	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00005	-0.00004	-0.00004
	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00075	0.00077	0.00080

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X2H7H	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00059	0.00060	0.00065
	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00005	-0.00005	-0.00005
	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00004	0.00005	0.00005
	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00020	-0.00018	-0.00014

Passive power(pJ) for S0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X2H7H	(A * B * Y)	-0.00015	-0.00012	-0.00008
	(A * B * Y)	0.00002	0.00002	0.00002
	(A * B * Y)	-0.00002	-0.00002	0.00000
	(A * B * Y)	0.00115	0.00118	0.00121
	(!A * !B * !Y)	-0.00005	-0.00003	0.00001
	(!A * !B * !Y)	0.00002	0.00002	0.00003
	(!A * !B * !Y)	-0.00002	-0.00002	-0.00001
	(!A * !B * !Y)	0.00124	0.00126	0.00130

Passive power(pJ) for S0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X2H7H	(A * B * Y)	0.00127	0.00130	0.00134
	(A * B * Y)	-0.00002	-0.00002	-0.00002
	(A * B * Y)	0.00000	0.00002	0.00002
	(A * B * Y)	-0.00003	0.00000	0.00006
	(!A * !B * !Y)	0.00117	0.00120	0.00125
	(!A * !B * !Y)	-0.00002	-0.00002	-0.00001
	(!A * !B * !Y)	0.00002	0.00002	0.00002
	(!A * !B * !Y)	-0.00012	-0.00010	-0.00006

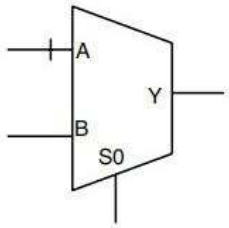
MUX2X3H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The MUX2 cell is a 2-to-1 multiplexer. The state of the select input (S0) determines which data input (A, B) is presented to the output (Y). The output (Y) is represented by the logic equation:

WARNING: The output pin Y has the potential to glitch low during a high-to-low transition on the S0 input when A=B=1. Use this cell with caution when driving clock or other control signals in your design.



Truth Table

INPUT			OUTPUT
A	B	S0	Y
0	0	x	0
0	1	0	0
x	1	1	1
1	x	0	1
1	0	1	0

Footprint

Cell Name	Area
MUX2X3H7H	3.64000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	**B**	**S0**	**Y**
MUX2X3H7H	0.00090	0.00104	0.00212	0.08615

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
MUX2X3H7H	0.00000	0.05269	0.05962

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MUX2X3H7H	A->Y (RR)	-	0.08485	0.26775	0.71146
	B->Y (RR)	-	0.08012	0.26243	0.70361
	S0->Y (RR)	(!A * B)	0.06883	0.24692	0.67460
	S0->Y (FR)	(A * !B)	0.10409	0.28829	0.72264

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MUX2X3H7H	A->Y (FF)	-	0.10253	0.26419	0.64142
	B->Y (FF)	-	0.10337	0.26253	0.63405
	S0->Y (FF)	(!A * B)	0.08794	0.24214	0.60312
	S0->Y (RF)	(A * !B)	0.10397	0.25421	0.58081

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MUX2X3H7H	A	-	0.00134	0.00143	0.00154
	A	-	0.00008	0.00009	0.00009
	A	-	-0.00007	-0.00007	-0.00006
	A	-	0.00243	0.00252	0.00263
	B	-	0.00095	0.00106	0.00118
	B	-	0.00008	0.00009	0.00009
	B	-	-0.00007	-0.00007	-0.00007
	B	-	0.00212	0.00223	0.00235
	S0	(A * !B)	0.00290	0.00302	0.00322
	S0	(A * !B)	-0.00000	-0.00000	0.00000
	S0	(A * !B)	0.00001	0.00001	0.00002
	S0	(A * !B)	0.00183	0.00196	0.00215
	S0	(!A * B)	0.00097	0.00111	0.00126
	S0	(!A * B)	0.00003	0.00004	0.00006
	S0	(!A * B)	-0.00006	-0.00003	-0.00002
	S0	(!A * B)	0.00260	0.00275	0.00290

Internal switching power(pJ) to Y falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MUX2X3H7H	A	-	0.00235	0.00244	0.00254
	A	-	-0.00009	-0.00008	-0.00008
	A	-	0.00007	0.00007	0.00007
	A	-	0.00126	0.00135	0.00145
	B	-	0.00260	0.00270	0.00282
	B	-	-0.00009	-0.00008	-0.00008
	B	-	0.00007	0.00007	0.00007
	B	-	0.00143	0.00154	0.00166
	S0	(A * !B)	0.00200	0.00213	0.00232
	S0	(A * !B)	0.00000	0.00000	0.00001
	S0	(A * !B)	-0.00002	-0.00001	-0.00001
	S0	(A * !B)	0.00307	0.00320	0.00341
	S0	(!A * B)	0.00286	0.00299	0.00314
	S0	(!A * B)	-0.00004	-0.00004	-0.00003
	S0	(!A * B)	0.00003	0.00003	0.00006
	S0	(!A * B)	0.00121	0.00135	0.00150

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X3H7H	(B * S0 * Y) + (!B * S0 * !Y)	-0.00012	-0.00010	-0.00007
	(B * S0 * Y) + (!B * S0 * !Y)	0.00007	0.00007	0.00007
	(B * S0 * Y) + (!B * S0 * !Y)	-0.00006	-0.00006	-0.00006
	(B * S0 * Y) + (!B * S0 * !Y)	0.00069	0.00071	0.00075

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X3H7H	(B * S0 * Y) + (!B * S0 * !Y)	0.00080	0.00082	0.00086
	(B * S0 * Y) + (!B * S0 * !Y)	-0.00007	-0.00007	-0.00006
	(B * S0 * Y) + (!B * S0 * !Y)	0.00006	0.00006	0.00006
	(B * S0 * Y) + (!B * S0 * !Y)	-0.00001	0.00001	0.00005

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X3H7H	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00005	-0.00003	0.00000
	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00006	0.00006	0.00007
	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00006	-0.00006	-0.00005
	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00083	0.00085	0.00088

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X3H7H	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00067	0.00069	0.00074
	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00007	-0.00006	-0.00006
	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00005	0.00006	0.00006
	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00020	-0.00018	-0.00014

Passive power(pJ) for S0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X3H7H	(A * B * Y)	-0.00015	-0.00012	-0.00009
	(A * B * Y)	0.00002	0.00002	0.00002
	(A * B * Y)	-0.00003	-0.00002	-0.00001
	(A * B * Y)	0.00121	0.00123	0.00128
	(!A * !B * !Y)	-0.00005	-0.00002	0.00004
	(!A * !B * !Y)	0.00000	0.00002	0.00002
	(!A * !B * !Y)	-0.00002	-0.00002	-0.00002
	(!A * !B * !Y)	0.00131	0.00134	0.00138

Passive power(pJ) for S0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X3H7H	(A * B * Y)	0.00132	0.00135	0.00138
	(A * B * Y)	-0.00002	-0.00002	-0.00001
	(A * B * Y)	0.00002	0.00002	0.00003
	(A * B * Y)	-0.00004	-0.00001	0.00003
	(!A * !B * !Y)	0.00121	0.00123	0.00126
	(!A * !B * !Y)	-0.00002	-0.00002	-0.00000
	(!A * !B * !Y)	0.00002	0.00002	0.00002
	(!A * !B * !Y)	-0.00014	-0.00012	-0.00007

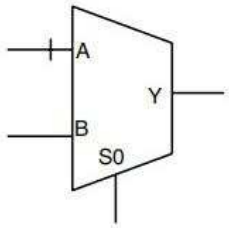
MUX2X4H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The MUX2 cell is a 2-to-1 multiplexer. The state of the select input (S0) determines which data input (A, B) is presented to the output (Y). The output (Y) is represented by the logic equation:

WARNING: The output pin Y has the potential to glitch low during a high-to-low transition on the S0 input when A=B=1. Use this cell with caution when driving clock or other control signals in your design.



Truth Table

INPUT			OUTPUT
A	B	S0	Y
0	0	x	0
0	1	0	0
x	1	1	1
1	x	0	1
1	0	1	0

Footprint

Cell Name	Area
MUX2X4H7H	3.92000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	**B**	**S0**	**Y**
MUX2X4H7H	0.00099	0.00117	0.00228	0.11660

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
MUX2X4H7H	0.00000	0.06952	0.07508

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MUX2X4H7H	A->Y (RR)	-	0.08664	0.27187	0.72047
	B->Y (RR)	-	0.08177	0.26663	0.71374
	S0->Y (RR)	(!A * B)	0.07142	0.25244	0.68732
	S0->Y (FR)	(A * !B)	0.10626	0.29225	0.72959

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MUX2X4H7H	A->Y (FF)	-	0.10409	0.26737	0.64671
	B->Y (FF)	-	0.10527	0.26610	0.64037
	S0->Y (FF)	(!A * B)	0.09205	0.24870	0.61468
	S0->Y (RF)	(A * !B)	0.10610	0.25798	0.58578

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MUX2X4H7H	A	-	0.00177	0.00189	0.00203
	A	-	0.00010	0.00010	0.00010
	A	-	-0.00008	-0.00007	-0.00007
	A	-	0.00301	0.00313	0.00327
	B	-	0.00135	0.00149	0.00165
	B	-	0.00009	0.00010	0.00011
	B	-	-0.00008	-0.00007	-0.00007
	B	-	0.00266	0.00280	0.00295
	S0	(A * !B)	0.00346	0.00362	0.00384
	S0	(A * !B)	-0.00001	-0.00000	0.00000
	S0	(A * !B)	0.00001	0.00002	0.00002
	S0	(A * !B)	0.00232	0.00247	0.00270
	S0	(!A * B)	0.00135	0.00153	0.00172
	S0	(!A * B)	0.00003	0.00004	0.00005
	S0	(!A * B)	-0.00003	-0.00003	-0.00002
	S0	(!A * B)	0.00311	0.00329	0.00348

Internal switching power(pJ) to Y falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MUX2X4H7H	A	-	0.00294	0.00306	0.00318
	A	-	-0.00010	-0.00010	-0.00009
	A	-	0.00007	0.00008	0.00008
	A	-	0.00170	0.00182	0.00195
	B	-	0.00321	0.00334	0.00349
	B	-	-0.00010	-0.00010	-0.00009
	B	-	0.00007	0.00008	0.00008
	B	-	0.00190	0.00203	0.00218
	S0	(A * !B)	0.00254	0.00271	0.00294
	S0	(A * !B)	0.00000	0.00000	0.00001
	S0	(A * !B)	-0.00002	-0.00002	-0.00001
	S0	(A * !B)	0.00368	0.00385	0.00410
	S0	(!A * B)	0.00343	0.00359	0.00378
	S0	(!A * B)	-0.00005	-0.00004	-0.00002
	S0	(!A * B)	0.00002	0.00003	0.00004
	S0	(!A * B)	0.00166	0.00183	0.00201

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X4H7H	(B * S0 * Y) + (!B * S0 * !Y)	-0.00014	-0.00012	-0.00009
	(B * S0 * Y) + (!B * S0 * !Y)	0.00008	0.00008	0.00008
	(B * S0 * Y) + (!B * S0 * !Y)	-0.00007	-0.00007	-0.00007
	(B * S0 * Y) + (!B * S0 * !Y)	0.00079	0.00081	0.00085

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X4H7H	(B * S0 * Y) + (!B * S0 * !Y)	0.00091	0.00093	0.00097
	(B * S0 * Y) + (!B * S0 * !Y)	-0.00008	-0.00008	-0.00008
	(B * S0 * Y) + (!B * S0 * !Y)	0.00007	0.00007	0.00007
	(B * S0 * Y) + (!B * S0 * !Y)	-0.00003	-0.00001	0.00004

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X4H7H	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00006	-0.00004	-0.00001
	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00008	0.00008	0.00009
	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00007	-0.00007	-0.00007
	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00094	0.00096	0.00099

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X4H7H	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00077	0.00080	0.00084
	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00008	-0.00008	-0.00008
	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00007	0.00007	0.00007
	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00023	-0.00021	-0.00016

Passive power(pJ) for S0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X4H7H	(A * B * Y)	-0.00016	-0.00013	-0.00009
	(A * B * Y)	0.00002	0.00002	0.00002
	(A * B * Y)	-0.00002	-0.00002	-0.00001
	(A * B * Y)	0.00130	0.00133	0.00138
	(!A * !B * !Y)	-0.00006	-0.00003	0.00003
	(!A * !B * !Y)	0.00000	0.00002	0.00002
	(!A * !B * !Y)	-0.00003	-0.00002	-0.00002
	(!A * !B * !Y)	0.00139	0.00142	0.00147

Passive power(pJ) for S0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X4H7H	(A * B * Y)	0.00140	0.00143	0.00147
	(A * B * Y)	-0.00002	-0.00002	-0.00002
	(A * B * Y)	0.00001	0.00002	0.00002
	(A * B * Y)	-0.00006	-0.00003	0.00003
	(!A * !B * !Y)	0.00130	0.00133	0.00138
	(!A * !B * !Y)	-0.00002	-0.00002	-0.00000
	(!A * !B * !Y)	0.00002	0.00002	0.00003
	(!A * !B * !Y)	-0.00016	-0.00013	-0.00009

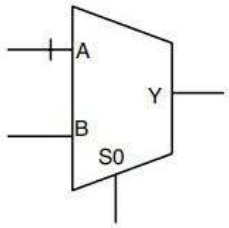
MUX2X6H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The MUX2 cell is a 2-to-1 multiplexer. The state of the select input (S0) determines which data input (A, B) is presented to the output (Y). The output (Y) is represented by the logic equation:

WARNING: The output pin Y has the potential to glitch low during a high-to-low transition on the S0 input when A=B=1. Use this cell with caution when driving clock or other control signals in your design.



Truth Table

INPUT			OUTPUT
A	B	S0	Y
0	0	x	0
0	1	0	0
x	1	1	1
1	x	0	1
1	0	1	0

Footprint

Cell Name	Area
MUX2X6H7H	7.28000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	**B**	**S0**	**Y**
MUX2X6H7H	0.00169	0.00168	0.00305	0.17199

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
MUX2X6H7H	0.00000	0.08637	0.09678

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MUX2X6H7H	A->Y (RR)	-	0.09897	0.28689	0.73867
	B->Y (RR)	-	0.08966	0.27645	0.72509
	S0->Y (RR)	(!A * B)	0.08010	0.26508	0.70644
	S0->Y (FR)	(A * !B)	0.11475	0.30612	0.75234

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MUX2X6H7H	A->Y (FF)	-	0.12185	0.29279	0.68549
	B->Y (FF)	-	0.11938	0.28675	0.67095
	S0->Y (FF)	(!A * B)	0.10658	0.27006	0.64902
	S0->Y (RF)	(A * !B)	0.11794	0.27910	0.62213

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MUX2X6H7H	A	-	0.00270	0.00288	0.00310
	A	-	0.00009	0.00010	0.00011
	A	-	-0.00008	-0.00008	-0.00007
	A	-	0.00461	0.00479	0.00501
	B	-	0.00206	0.00226	0.00249
	B	-	0.00009	0.00010	0.00010
	B	-	-0.00008	-0.00008	-0.00007
	B	-	0.00396	0.00416	0.00439
	S0	(A * !B)	0.00493	0.00519	0.00558
	S0	(A * !B)	-0.00003	-0.00003	-0.00001
	S0	(A * !B)	0.00004	0.00004	0.00007
	S0	(A * !B)	0.00337	0.00364	0.00403
	S0	(!A * B)	0.00219	0.00245	0.00270
	S0	(!A * B)	0.00002	0.00003	0.00006
	S0	(!A * B)	-0.00002	-0.00001	0.00002
	S0	(!A * B)	0.00445	0.00470	0.00497

Internal switching power(pJ) to Y falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MUX2X6H7H	A	-	0.00481	0.00499	0.00519
	A	-	-0.00010	-0.00010	-0.00009
	A	-	0.00007	0.00008	0.00008
	A	-	0.00290	0.00308	0.00329
	B	-	0.00502	0.00521	0.00543
	B	-	-0.00010	-0.00010	-0.00008
	B	-	0.00007	0.00008	0.00008
	B	-	0.00311	0.00330	0.00353
	S0	(A * !B)	0.00381	0.00411	0.00453
	S0	(A * !B)	0.00001	0.00003	0.00003
	S0	(A * !B)	-0.00005	-0.00004	-0.00004
	S0	(A * !B)	0.00535	0.00566	0.00608
	S0	(!A * B)	0.00494	0.00519	0.00545
	S0	(!A * B)	-0.00003	-0.00003	-0.00002
	S0	(!A * B)	0.00001	0.00001	0.00002
	S0	(!A * B)	0.00269	0.00293	0.00320

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X6H7H	(B * S0 * Y) + (!B * S0 * !Y)	-0.00021	-0.00018	-0.00014
	(B * S0 * Y) + (!B * S0 * !Y)	0.00010	0.00010	0.00011
	(B * S0 * Y) + (!B * S0 * !Y)	-0.00009	-0.00009	-0.00009
	(B * S0 * Y) + (!B * S0 * !Y)	0.00135	0.00139	0.00143

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X6H7H	(B * S0 * Y) + (!B * S0 * !Y)	0.00173	0.00176	0.00183
	(B * S0 * Y) + (!B * S0 * !Y)	-0.00010	-0.00010	-0.00009
	(B * S0 * Y) + (!B * S0 * !Y)	0.00009	0.00009	0.00009
	(B * S0 * Y) + (!B * S0 * !Y)	0.00017	0.00020	0.00026

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X6H7H	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00009	-0.00005	-0.00001
	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00009	0.00010	0.00011
	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00009	-0.00009	-0.00009
	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00146	0.00150	0.00154

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X6H7H	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00145	0.00148	0.00155
	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00010	-0.00009	-0.00007
	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00009	0.00015	0.00049
	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00043	-0.00012	-0.00000

Passive power(pJ) for S0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X6H7H	(A * B * Y)	-0.00018	-0.00014	-0.00009
	(A * B * Y)	0.00002	0.00003	0.00003
	(A * B * Y)	-0.00004	-0.00003	-0.00001
	(A * B * Y)	0.00173	0.00176	0.00182
	(!A * !B * !Y)	-0.00011	-0.00008	-0.00001
	(!A * !B * !Y)	0.00000	0.00002	0.00003
	(!A * !B * !Y)	-0.00003	-0.00002	-0.00001
	(!A * !B * !Y)	0.00179	0.00181	0.00185

Passive power(pJ) for S0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X6H7H	(A * B * Y)	0.00173	0.00176	0.00181
	(A * B * Y)	-0.00003	-0.00003	-0.00002
	(A * B * Y)	0.00002	0.00003	0.00005
	(A * B * Y)	-0.00018	-0.00015	-0.00011
	(!A * !B * !Y)	0.00166	0.00169	0.00175
	(!A * !B * !Y)	-0.00003	-0.00002	0.00000
	(!A * !B * !Y)	0.00002	0.00003	0.00006
	(!A * !B * !Y)	-0.00025	-0.00022	-0.00019

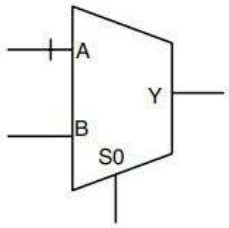
MUX2X8H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The MUX2 cell is a 2-to-1 multiplexer. The state of the select input (S0) determines which data input (A, B) is presented to the output (Y). The output (Y) is represented by the logic equation:

WARNING: The output pin Y has the potential to glitch low during a high-to-low transition on the S0 input when A=B=1. Use this cell with caution when driving clock or other control signals in your design.



Truth Table

INPUT			OUTPUT
A	B	S0	Y
0	0	x	0
0	1	0	0
x	1	1	1
1	x	0	1
1	0	1	0

Footprint

Cell Name	Area
MUX2X8H7H	7.84000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	**B**	**S0**	**Y**
MUX2X8H7H	0.00208	0.00213	0.00408	0.22804

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
MUX2X8H7H	0.00000	0.14372	0.17248

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MUX2X8H7H	A->Y (RR)	-	0.08490	0.27156	0.72194
	B->Y (RR)	-	0.07802	0.26387	0.71108
	S0->Y (RR)	(!A * B)	0.06902	0.25115	0.68696
	S0->Y (FR)	(A * !B)	0.09786	0.28263	0.71329

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MUX2X8H7H	A->Y (FF)	-	0.10260	0.26891	0.65339
	B->Y (FF)	-	0.10139	0.26489	0.64328
	S0->Y (FF)	(!A * B)	0.08930	0.24885	0.61950
	S0->Y (RF)	(A * !B)	0.09987	0.25129	0.57503

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MUX2X8H7H	A	-	0.00331	0.00356	0.00384
	A	-	0.00019	0.00020	0.00020
	A	-	-0.00016	-0.00015	-0.00015
	A	-	0.00580	0.00604	0.00633
	B	-	0.00254	0.00280	0.00309
	B	-	0.00018	0.00019	0.00021
	B	-	-0.00016	-0.00015	-0.00015
	B	-	0.00505	0.00532	0.00560
	S0	(A * !B)	0.00619	0.00652	0.00700
	S0	(A * !B)	-0.00001	-0.00001	0.00002
	S0	(A * !B)	0.00002	0.00003	0.00004
	S0	(A * !B)	0.00413	0.00446	0.00493
	S0	(!A * B)	0.00264	0.00297	0.00333
	S0	(!A * B)	0.00006	0.00007	0.00008
	S0	(!A * B)	-0.00005	-0.00005	-0.00004
	S0	(!A * B)	0.00571	0.00604	0.00639

Internal switching power(pJ) to Y falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MUX2X8H7H	A	-	0.00596	0.00620	0.00646
	A	-	-0.00020	-0.00019	-0.00018
	A	-	0.00015	0.00015	0.00016
	A	-	0.00347	0.00371	0.00398
	B	-	0.00629	0.00655	0.00682
	B	-	-0.00020	-0.00019	-0.00018
	B	-	0.00015	0.00015	0.00016
	B	-	0.00379	0.00404	0.00431
	S0	(A * !B)	0.00473	0.00509	0.00555
	S0	(A * !B)	0.00000	0.00001	0.00002
	S0	(A * !B)	-0.00004	-0.00003	-0.00002
	S0	(A * !B)	0.00679	0.00714	0.00759
	S0	(!A * B)	0.00620	0.00653	0.00686
	S0	(!A * B)	-0.00007	-0.00007	-0.00006
	S0	(!A * B)	0.00004	0.00005	0.00006
	S0	(!A * B)	0.00314	0.00346	0.00380

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X8H7H	(B * S0 * Y) + (!B * S0 * !Y)	-0.00031	-0.00026	-0.00021
	(B * S0 * Y) + (!B * S0 * !Y)	0.00015	0.00017	0.00018
	(B * S0 * Y) + (!B * S0 * !Y)	-0.00015	-0.00015	-0.00014
	(B * S0 * Y) + (!B * S0 * !Y)	0.00168	0.00172	0.00178

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X8H7H	(B * S0 * Y) + (!B * S0 * !Y)	0.00212	0.00216	0.00223
	(B * S0 * Y) + (!B * S0 * !Y)	-0.00017	-0.00016	-0.00015
	(B * S0 * Y) + (!B * S0 * !Y)	0.00014	0.00015	0.00015
	(B * S0 * Y) + (!B * S0 * !Y)	0.00013	0.00017	0.00024

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X8H7H	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00015	-0.00010	-0.00003
	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00015	0.00016	0.00018
	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00015	-0.00015	-0.00015
	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00185	0.00191	0.00196

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X8H7H	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00179	0.00185	0.00192
	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00017	-0.00016	-0.00015
	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00015	0.00015	0.00015
	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00021	-0.00017	-0.00010

Passive power(pJ) for S0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X8H7H	(A * B * Y)	-0.00027	-0.00022	-0.00017
	(A * B * Y)	0.00004	0.00004	0.00005
	(A * B * Y)	-0.00004	-0.00004	-0.00002
	(A * B * Y)	0.00230	0.00234	0.00240
	(!A * !B * !Y)	-0.00017	-0.00013	-0.00008
	(!A * !B * !Y)	0.00003	0.00004	0.00007
	(!A * !B * !Y)	-0.00004	-0.00004	-0.00004
	(!A * !B * !Y)	0.00239	0.00244	0.00252

Passive power(pJ) for S0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X8H7H	(A * B * Y)	0.00225	0.00229	0.00233
	(A * B * Y)	-0.00005	-0.00004	-0.00001
	(A * B * Y)	0.00003	0.00004	0.00004
	(A * B * Y)	-0.00032	-0.00027	-0.00019
	(!A * !B * !Y)	0.00214	0.00219	0.00223
	(!A * !B * !Y)	-0.00005	-0.00003	-0.00000
	(!A * !B * !Y)	0.00004	0.00004	0.00004
	(!A * !B * !Y)	-0.00042	-0.00037	-0.00031

MUX4X0P5H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

MUX4, In: A, B, C, D, S0, S1, Out: Y

Truth Table

INPUT						OUTPUT
A	B	C	D	S0	S1	Y
0	0	0	0	x	x	0
0	x	0	1	0	x	0
x	0	x	1	1	0	0
x	x	x	1	1	1	1
0	0	1	x	x	0	0
0	x	1	x	0	1	1
0	x	1	0	1	1	0
0	1	0	x	0	x	0
0	1	x	x	1	0	1
0	1	x	0	1	1	0
0	1	1	x	0	0	0
1	0	0	x	0	0	1
1	x	0	0	x	1	0
1	0	x	0	1	x	0
1	x	0	1	0	1	0
1	x	1	x	0	x	1
1	1	0	x	x	0	1
1	1	1	x	1	0	1
1	1	1	0	1	1	0

Footprint

Cell Name	Area
MUX4X0P5H7H	6.44000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A	B	C	D	S0	S1	Y
MUX4X0P5H7H	0.00079	0.00075	0.00071	0.00080	0.00309	0.00191	0.03028

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
MUX4X0P5H7H	0.00000	0.04481	0.05003

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
MUX4X0P5H7H	A->Y (RR)	0.13755	0.31956	0.76888
	B->Y (RR)	0.13343	0.31655	0.76712
	C->Y (RR)	0.14737	0.33266	0.79065
	D->Y (RR)	0.14566	0.33169	0.79069
	S0->Y (-R)	0.19510	0.38269	0.83123
	S1->Y (-R)	0.11249	0.29015	0.70800

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
MUX4X0P5H7H	A->Y (FF)	0.18150	0.34132	0.72210
	B->Y (FF)	0.18101	0.34100	0.72165
	C->Y (FF)	0.20098	0.36426	0.75342
	D->Y (FF)	0.20517	0.36765	0.75575
	S0->Y (-F)	0.19266	0.35279	0.73945
	S1->Y (-F)	0.09741	0.24167	0.57844

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
MUX4X0P5H7H	A	0.00092	0.00096	0.00101
	A	0.00015	0.00017	0.00017
	A	-0.00015	-0.00014	-0.00012
	A	0.00226	0.00229	0.00234
	B	0.00071	0.00074	0.00078
	B	0.00016	0.00017	0.00018
	B	-0.00015	-0.00014	-0.00012
	B	0.00205	0.00208	0.00212
	C	0.00066	0.00069	0.00073
	C	0.00017	0.00017	0.00019
	C	-0.00015	-0.00014	-0.00012
	C	0.00205	0.00208	0.00212
	D	0.00039	0.00042	0.00047
	D	0.00017	0.00017	0.00019
	D	-0.00015	-0.00014	-0.00012
	D	0.00185	0.00189	0.00195
	S0	0.00360	0.00369	0.00380
	S0	0.00033	0.00034	0.00034
	S0	-0.00006	-0.00003	0.00007
	S0	0.00403	0.00414	0.00427
	S1	0.00188	0.00195	0.00210
	S1	0.00006	0.00006	0.00007
	S1	-0.00002	-0.00001	0.00002
	S1	0.00179	0.00186	0.00194

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
MUX4X0P5H7H	A	0.00197	0.00201	0.00206
	A	-0.00017	-0.00017	-0.00015
	A	0.00012	0.00014	0.00017
	A	0.00064	0.00067	0.00072
	B	0.00218	0.00221	0.00226
	B	-0.00018	-0.00017	-0.00015
	B	0.00012	0.00014	0.00017
	B	0.00085	0.00088	0.00092
	C	0.00257	0.00260	0.00265
	C	-0.00018	-0.00017	-0.00017
	C	0.00012	0.00014	0.00016
	C	0.00118	0.00121	0.00125
	D	0.00284	0.00287	0.00293
	D	-0.00018	-0.00017	-0.00017
	D	0.00012	0.00014	0.00015
	D	0.00138	0.00142	0.00147
	S0	0.00415	0.00425	0.00440
	S0	-0.00002	0.00000	0.00002
	S0	0.00020	0.00024	0.00030
	S0	0.00390	0.00400	0.00411
	S1	0.00187	0.00194	0.00202
	S1	-0.00003	-0.00002	-0.00001
	S1	0.00005	0.00005	0.00007
	S1	0.00220	0.00227	0.00239

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X0P5H7H	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00013	0.00014	0.00015
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00012	0.00013	0.00014
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	-0.00011	-0.00011	-0.00010
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00116	0.00118	0.00120
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00009	-0.00008	-0.00007
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00002	-0.00002	-0.00002
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00001	0.00001	0.00002
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00030	0.00030	0.00030

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X0P5H7H	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00110	0.00111	0.00113
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	-0.00013	-0.00012	-0.00012
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00010	0.00011	0.00011
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00005	0.00007	0.00010
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00009	0.00009	0.00009
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00002	0.00002	0.00002
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00002	-0.00001	-0.00001
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00030	-0.00029	-0.00029

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X0P5H7H	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	-0.00008	-0.00007	-0.00006
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	0.00012	0.00013	0.00013
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	-0.00011	-0.00011	-0.00010
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	0.00096	0.00097	0.00099
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00014	-0.00013	-0.00012
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00002	-0.00002	-0.00002
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00001	0.00001	0.00001
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00023	0.00023	0.00023

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X0P5H7H	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	0.00130	0.00131	0.00132
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	-0.00013	-0.00013	-0.00012
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	0.00010	0.00011	0.00011
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	0.00026	0.00027	0.00029
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00014	0.00014	0.00014
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00002	0.00002	0.00002
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00001	-0.00001	-0.00001
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00023	-0.00022	-0.00021

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X0P5H7H	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00009	-0.00008	-0.00007
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00002	-0.00002	-0.00002
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00001	0.00001	0.00001
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00022	0.00022	0.00022
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00033	0.00033	0.00034
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00012	0.00012	0.00012
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	-0.00011	-0.00011	-0.00011
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00142	0.00143	0.00145

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X0P5H7H	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00009	0.00009	0.00009
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00002	0.00002	0.00002
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00001	-0.00001	-0.00001
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00022	-0.00021	-0.00021
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00129	0.00130	0.00132
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	-0.00012	-0.00012	-0.00012
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00011	0.00011	0.00011
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00020	0.00021	0.00022

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X0P5H7H	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00006	0.00008	0.00010
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00012	0.00012	0.00013
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	-0.00011	-0.00011	-0.00010
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00123	0.00124	0.00125
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00014	-0.00014	-0.00013
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00002	-0.00002	-0.00002
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00001	0.00001	0.00002
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00022	0.00022	0.00023

Passive power(pJ) for D falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X0P5H7H	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00155	0.00157	0.00160
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	-0.00013	-0.00012	-0.00012
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00011	0.00011	0.00012
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00040	0.00041	0.00042
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00014	0.00014	0.00015
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00002	0.00002	0.00002
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00001	-0.00001	-0.00001
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00022	-0.00022	-0.00021

Passive power(pJ) for S0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

MUX4X0P5H7H	**(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)**	-0.00013	-0.00010	-0.00006
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	0.00001	0.00002	0.00003
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	-0.00002	-0.00002	-0.00001
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	0.00170	0.00172	0.00177
	(A * B * C * !D * !S1 * Y)	0.00125	0.00131	0.00137
	(A * B * C * !D * !S1 * Y)	-0.00011	-0.00009	-0.00008
	(A * B * C * !D * !S1 * Y)	0.00007	0.00007	0.00008
	(A * B * C * !D * !S1 * Y)	0.00242	0.00247	0.00252
	(A * B * !C * D * !S1 * Y)	-0.00009	-0.00004	0.00002
	(A * B * !C * D * !S1 * Y)	0.00013	0.00014	0.00014
	(A * B * !C * D * !S1 * Y)	-0.00012	-0.00011	-0.00011
	(A * B * !C * D * !S1 * Y)	0.00239	0.00244	0.00251
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	-0.00010	-0.00008	-0.00004
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	0.00002	0.00003	0.00004
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	-0.00002	-0.00001	0.00002
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	0.00170	0.00172	0.00176
	(A * !B * C * D * S1 * Y)	0.00100	0.00105	0.00111
	(A * !B * C * D * S1 * Y)	-0.00009	-0.00009	-0.00008
	(A * !B * C * D * S1 * Y)	0.00006	0.00008	0.00011
	(A * !B * C * D * S1 * Y)	0.00228	0.00233	0.00239
	(A * !B * !C * !D * S1 * !Y)	0.00090	0.00096	0.00102
	(A * !B * !C * !D * S1 * !Y)	-0.00009	-0.00008	-0.00006
	(A * !B * !C * !D * S1 * !Y)	0.00005	0.00008	0.00009
	(A * !B * !C * !D * S1 * !Y)	0.00215	0.00221	0.00231
	(!A * B * C * D * S1 * Y)	-0.00024	-0.00019	-0.00013
	(!A * B * C * D * S1 * Y)	0.00013	0.00014	0.00014
	(!A * B * C * D * S1 * Y)	-0.00013	-0.00011	-0.00010
	(!A * B * C * D * S1 * Y)	0.00212	0.00216	0.00224
	(!A * B * !C * !D * S1 * !Y)	-0.00008	-0.00004	0.00003
	(!A * B * !C * !D * S1 * !Y)	0.00013	0.00014	0.00016
	(!A * B * !C * !D * S1 * !Y)	-0.00011	-0.00010	-0.00008
	(!A * B * !C * !D * S1 * !Y)	0.00225	0.00230	0.00236
	(!A * !B * C * !D * !S1 * !Y)	0.00111	0.00117	0.00124
	(!A * !B * C * !D * !S1 * !Y)	-0.00009	-0.00009	-0.00008
	(!A * !B * C * !D * !S1 * !Y)	0.00008	0.00008	0.00010
	(!A * !B * C * !D * !S1 * !Y)	0.00225	0.00230	0.00234
	(!A * !B * !C * D * !S1 * !Y)	0.00009	0.00014	0.00020
	(!A * !B * !C * D * !S1 * !Y)	0.00013	0.00014	0.00016
	(!A * !B * !C * D * !S1 * !Y)	-0.00011	-0.00011	-0.00010
	(!A * !B * !C * D * !S1 * !Y)	0.00254	0.00259	0.00267

Passive power(pJ) for S0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

MUX4X0P5H7H	**(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)**	0.00153	0.00156	0.00160
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	-0.00002	-0.00002	-0.00001
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	0.00001	0.00002	0.00004
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	-0.00029	-0.00026	-0.00024
	(A * B * C * !D * !S1 * Y)	0.00204	0.00208	0.00211
	(A * B * C * !D * !S1 * Y)	0.00008	0.00009	0.00012
	(A * B * C * !D * !S1 * Y)	-0.00008	-0.00007	-0.00005
	(A * B * C * !D * !S1 * Y)	0.00088	0.00092	0.00096
	(A * B * !C * D * !S1 * Y)	0.00239	0.00243	0.00250
	(A * B * !C * D * !S1 * Y)	-0.00013	-0.00013	-0.00011
	(A * B * !C * D * !S1 * Y)	0.00011	0.00012	0.00013
	(A * B * !C * D * !S1 * Y)	-0.00009	-0.00004	0.00004
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	0.00150	0.00152	0.00156
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	-0.00002	-0.00002	-0.00001
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	0.00001	0.00002	0.00004
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	-0.00031	-0.00028	-0.00025
	(A * !B * C * D * S1 * Y)	0.00183	0.00187	0.00190
	(A * !B * C * D * S1 * Y)	0.00008	0.00009	0.00012
	(A * !B * C * D * S1 * Y)	-0.00008	-0.00007	-0.00006
	(A * !B * C * D * S1 * Y)	0.00056	0.00060	0.00065
	(A * !B * !C * !D * S1 * !Y)	0.00192	0.00196	0.00200
	(A * !B * !C * !D * S1 * !Y)	0.00009	0.00009	0.00010
	(A * !B * !C * !D * S1 * !Y)	-0.00008	-0.00007	-0.00005
	(A * !B * !C * !D * S1 * !Y)	0.00067	0.00071	0.00075
	(!A * B * C * D * S1 * Y)	0.00221	0.00226	0.00233
	(!A * B * C * D * S1 * Y)	-0.00013	-0.00013	-0.00013
	(!A * B * C * D * S1 * Y)	0.00010	0.00012	0.00013
	(!A * B * C * D * S1 * Y)	-0.00015	-0.00010	-0.00005
	(!A * B * !C * !D * S1 * !Y)	0.00204	0.00209	0.00216
	(!A * B * !C * !D * S1 * !Y)	-0.00016	-0.00013	-0.00012
	(!A * B * !C * !D * S1 * !Y)	0.00010	0.00011	0.00011
	(!A * B * !C * !D * S1 * !Y)	-0.00029	-0.00025	-0.00019
	(!A * !B * C * !D * !S1 * !Y)	0.00218	0.00221	0.00227
	(!A * !B * C * !D * !S1 * !Y)	0.00008	0.00009	0.00009
	(!A * !B * C * !D * !S1 * !Y)	-0.00008	-0.00008	-0.00007
	(!A * !B * C * !D * !S1 * !Y)	0.00104	0.00107	0.00113
	(!A * !B * !C * D * !S1 * !Y)	0.00220	0.00225	0.00234
	(!A * !B * !C * D * !S1 * !Y)	-0.00015	-0.00013	-0.00013
	(!A * !B * !C * D * !S1 * !Y)	0.00011	0.00011	0.00012
	(!A * !B * !C * D * !S1 * !Y)	-0.00026	-0.00020	-0.00013

Passive power(pJ) for S1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X0P5H7H	(B * D * S0 * Y)	-0.00015	-0.00013	-0.00011
	(B * D * S0 * Y)	0.00002	0.00002	0.00004
	(B * D * S0 * Y)	-0.00002	-0.00002	-0.00001
	(B * D * S0 * Y)	0.00105	0.00107	0.00111
	(A * C * !S0 * Y)	-0.00015	-0.00013	-0.00011
	(A * C * !S0 * Y)	0.00002	0.00002	0.00004
	(A * C * !S0 * Y)	-0.00003	-0.00002	-0.00001
	(A * C * !S0 * Y)	0.00105	0.00108	0.00112
	(!B * !D * S0 * !Y)	-0.00005	-0.00003	0.00001
	(!B * !D * S0 * !Y)	0.00001	0.00002	0.00002
	(!B * !D * S0 * !Y)	-0.00002	-0.00002	-0.00001
	(!B * !D * S0 * !Y)	0.00114	0.00117	0.00119
	(!A * !C * !S0 * !Y)	-0.00005	-0.00003	-0.00001
	(!A * !C * !S0 * !Y)	0.00001	0.00002	0.00004
	(!A * !C * !S0 * !Y)	-0.00002	-0.00002	-0.00000
	(!A * !C * !S0 * !Y)	0.00114	0.00116	0.00119

Passive power(pJ) for S1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X0P5H7H	(B * D * S0 * Y)	0.00102	0.00104	0.00107
	(B * D * S0 * Y)	-0.00002	-0.00002	-0.00000
	(B * D * S0 * Y)	0.00002	0.00002	0.00003
	(B * D * S0 * Y)	-0.00017	-0.00015	-0.00012
	(A * C * !S0 * Y)	0.00102	0.00104	0.00107
	(A * C * !S0 * Y)	-0.00002	-0.00002	-0.00002
	(A * C * !S0 * Y)	0.00001	0.00002	0.00003
	(A * C * !S0 * Y)	-0.00018	-0.00015	-0.00013
	(!B * !D * S0 * !Y)	0.00091	0.00094	0.00097
	(!B * !D * S0 * !Y)	-0.00002	-0.00002	-0.00001
	(!B * !D * S0 * !Y)	0.00002	0.00003	0.00005
	(!B * !D * S0 * !Y)	-0.00028	-0.00026	-0.00023
	(!A * !C * !S0 * !Y)	0.00092	0.00094	0.00097
	(!A * !C * !S0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A * !C * !S0 * !Y)	0.00002	0.00002	0.00004
	(!A * !C * !S0 * !Y)	-0.00028	-0.00026	-0.00023

MUX4X0P7H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

MUX4, In: A, B, C, D, S0, S1, Out: Y

Truth Table

INPUT						OUTPUT
A	B	C	D	S0	S1	Y
0	0	0	0	x	x	0
0	x	0	1	0	x	0
x	0	x	1	1	0	0
x	x	x	1	1	1	1
0	0	1	x	x	0	0
0	x	1	x	0	1	1
0	x	1	0	1	1	0
0	1	0	x	0	x	0
0	1	x	x	1	0	1
0	1	x	0	1	1	0
0	1	1	x	0	0	0
1	0	0	x	0	0	1
1	x	0	0	x	1	0
1	0	x	0	1	x	0
1	x	0	1	0	1	0
1	x	1	x	0	x	1
1	1	0	x	x	0	1
1	1	1	x	1	0	1
1	1	1	0	1	1	0

Footprint

Cell Name	Area
MUX4X0P7H7H	6.44000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A	B	C	D	S0	S1	Y
MUX4X0P7H7H	0.00079	0.00075	0.00071	0.00080	0.00309	0.00188	0.03447

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
MUX4X0P7H7H	0.00000	0.04567	0.04954

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
MUX4X0P7H7H	A->Y (RR)	0.13598	0.31907	0.76978
	B->Y (RR)	0.13188	0.31605	0.76807
	C->Y (RR)	0.14602	0.33245	0.79196
	D->Y (RR)	0.14431	0.33144	0.79148
	S0->Y (-R)	0.19370	0.38240	0.83201
	S1->Y (-R)	0.11102	0.28980	0.70898

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
MUX4X0P7H7H	A->Y (FF)	0.18096	0.34288	0.72663
	B->Y (FF)	0.18048	0.34258	0.72621
	C->Y (FF)	0.20085	0.36636	0.75869
	D->Y (FF)	0.20505	0.36974	0.76116
	S0->Y (-F)	0.19251	0.35490	0.74479
	S1->Y (-F)	0.09641	0.24303	0.58364

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
MUX4X0P7H7H	A	0.00095	0.00099	0.00104
	A	0.00017	0.00017	0.00017
	A	-0.00014	-0.00014	-0.00011
	A	0.00227	0.00231	0.00236
	B	0.00073	0.00077	0.00081
	B	0.00016	0.00017	0.00017
	B	-0.00014	-0.00014	-0.00011
	B	0.00206	0.00210	0.00214
	C	0.00068	0.00071	0.00076
	C	0.00015	0.00017	0.00017
	C	-0.00015	-0.00014	-0.00012
	C	0.00206	0.00209	0.00214
	D	0.00041	0.00045	0.00050
	D	0.00016	0.00017	0.00017
	D	-0.00014	-0.00014	-0.00011
	D	0.00187	0.00191	0.00195
	S0	0.00362	0.00371	0.00383
	S0	0.00033	0.00033	0.00035
	S0	-0.00002	0.00001	0.00002
	S0	0.00404	0.00416	0.00428
	S1	0.00190	0.00198	0.00212
	S1	0.00000	0.00006	0.00007
	S1	-0.00002	-0.00001	0.00001
	S1	0.00179	0.00186	0.00194

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
MUX4X0P7H7H	A	0.00198	0.00202	0.00208
	A	-0.00017	-0.00017	-0.00017
	A	0.00011	0.00014	0.00014
	A	0.00066	0.00070	0.00075
	B	0.00219	0.00222	0.00227
	B	-0.00017	-0.00017	-0.00016
	B	0.00011	0.00014	0.00014
	B	0.00087	0.00090	0.00095
	C	0.00259	0.00262	0.00267
	C	-0.00017	-0.00017	-0.00015
	C	0.00012	0.00014	0.00016
	C	0.00121	0.00124	0.00129
	D	0.00286	0.00290	0.00295
	D	-0.00017	-0.00017	-0.00016
	D	0.00011	0.00014	0.00014
	D	0.00141	0.00145	0.00150
	S0	0.00417	0.00427	0.00440
	S0	-0.00002	0.00001	0.00006
	S0	0.00017	0.00023	0.00030
	S0	0.00393	0.00403	0.00414
	S1	0.00188	0.00195	0.00202
	S1	-0.00004	-0.00002	0.00001
	S1	0.00005	0.00005	0.00006
	S1	0.00221	0.00229	0.00242

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X0P7H7H	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00013	0.00014	0.00016
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00012	0.00012	0.00013
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	-0.00011	-0.00011	-0.00010
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00117	0.00118	0.00121
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00009	-0.00008	-0.00007
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00002	-0.00002	-0.00002
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00001	0.00001	0.00002
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00030	0.00030	0.00030

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X0P7H7H	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00110	0.00111	0.00113
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	-0.00013	-0.00012	-0.00012
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00010	0.00011	0.00011
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00005	0.00007	0.00010
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00009	0.00009	0.00009
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00002	0.00002	0.00002
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00002	-0.00001	-0.00001
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00030	-0.00029	-0.00029

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X0P7H7H	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	-0.00008	-0.00007	-0.00006
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	0.00012	0.00012	0.00013
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	-0.00012	-0.00011	-0.00011
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	0.00096	0.00097	0.00099
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00014	-0.00013	-0.00012
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00002	-0.00002	-0.00002
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00001	0.00001	0.00001
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00022	0.00023	0.00024

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X0P7H7H	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	0.00130	0.00131	0.00133
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	-0.00013	-0.00012	-0.00012
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	0.00011	0.00011	0.00012
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	0.00026	0.00027	0.00028
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00014	0.00014	0.00014
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00002	0.00002	0.00002
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00001	-0.00001	-0.00001
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00023	-0.00022	-0.00021

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X0P7H7H	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00009	-0.00008	-0.00007
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00002	-0.00002	-0.00002
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00001	0.00001	0.00001
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00022	0.00022	0.00022
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00033	0.00034	0.00035
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00012	0.00012	0.00013
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	-0.00011	-0.00011	-0.00011
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00143	0.00144	0.00145

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X0P7H7H	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00009	0.00009	0.00009
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00002	0.00002	0.00002
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00001	-0.00001	-0.00001
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00022	-0.00021	-0.00021
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00129	0.00130	0.00132
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	-0.00013	-0.00012	-0.00012
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00011	0.00011	0.00011
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00020	0.00020	0.00022

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X0P7H7H	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00007	0.00009	0.00011
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00012	0.00012	0.00013
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	-0.00011	-0.00011	-0.00010
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00123	0.00125	0.00126
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00014	-0.00014	-0.00013
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00002	-0.00002	-0.00002
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00001	0.00001	0.00002
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00022	0.00022	0.00023

Passive power(pJ) for D falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X0P7H7H	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00155	0.00157	0.00159
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	-0.00013	-0.00012	-0.00012
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00010	0.00011	0.00011
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00039	0.00041	0.00044
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00014	0.00014	0.00015
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00002	0.00002	0.00002
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00002	-0.00001	-0.00001
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00022	-0.00022	-0.00021

Passive power(pJ) for S0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

MUX4X0P7H7H	**(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)**	-0.00013	-0.00011	-0.00007
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	0.00002	0.00002	0.00003
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	-0.00002	-0.00002	-0.00000
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	0.00170	0.00172	0.00176
	(A * B * C * !D * !S1 * Y)	0.00125	0.00130	0.00136
	(A * B * C * !D * !S1 * Y)	-0.00009	-0.00009	-0.00008
	(A * B * C * !D * !S1 * Y)	0.00007	0.00008	0.00008
	(A * B * C * !D * !S1 * Y)	0.00242	0.00247	0.00251
	(A * B * !C * D * !S1 * Y)	-0.00009	-0.00003	0.00005
	(A * B * !C * D * !S1 * Y)	0.00011	0.00013	0.00014
	(A * B * !C * D * !S1 * Y)	-0.00012	-0.00011	-0.00008
	(A * B * !C * D * !S1 * Y)	0.00239	0.00244	0.00249
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	-0.00010	-0.00008	-0.00004
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	0.00002	0.00003	0.00004
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	-0.00002	-0.00001	0.00002
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	0.00170	0.00173	0.00176
	(A * !B * C * D * S1 * Y)	0.00100	0.00105	0.00111
	(A * !B * C * D * S1 * Y)	-0.00009	-0.00009	-0.00008
	(A * !B * C * D * S1 * Y)	0.00006	0.00007	0.00008
	(A * !B * C * D * S1 * Y)	0.00228	0.00233	0.00239
	(A * !B * !C * !D * S1 * !Y)	0.00090	0.00096	0.00102
	(A * !B * !C * !D * S1 * !Y)	-0.00009	-0.00009	-0.00007
	(A * !B * !C * !D * S1 * !Y)	0.00007	0.00008	0.00011
	(A * !B * !C * !D * S1 * !Y)	0.00215	0.00220	0.00226
	(!A * B * C * D * S1 * Y)	-0.00024	-0.00019	-0.00014
	(!A * B * C * D * S1 * Y)	0.00013	0.00014	0.00015
	(!A * B * C * D * S1 * Y)	-0.00012	-0.00011	-0.00010
	(!A * B * C * D * S1 * Y)	0.00212	0.00216	0.00222
	(!A * B * !C * !D * S1 * !Y)	-0.00008	-0.00004	0.00003
	(!A * B * !C * !D * S1 * !Y)	0.00013	0.00014	0.00016
	(!A * B * !C * !D * S1 * !Y)	-0.00011	-0.00010	-0.00007
	(!A * B * !C * !D * S1 * !Y)	0.00225	0.00230	0.00236
	(!A * !B * C * !D * !S1 * !Y)	0.00111	0.00118	0.00124
	(!A * !B * C * !D * !S1 * !Y)	-0.00009	-0.00009	-0.00008
	(!A * !B * C * !D * !S1 * !Y)	0.00006	0.00008	0.00010
	(!A * !B * C * !D * !S1 * !Y)	0.00225	0.00231	0.00237
	(!A * !B * !C * D * !S1 * !Y)	0.00009	0.00014	0.00020
	(!A * !B * !C * D * !S1 * !Y)	0.00013	0.00014	0.00017
	(!A * !B * !C * D * !S1 * !Y)	-0.00011	-0.00011	-0.00009
	(!A * !B * !C * D * !S1 * !Y)	0.00254	0.00260	0.00268

Passive power(pJ) for S0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

MUX4X0P7H7H	**(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)**	0.00153	0.00156	0.00160
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	-0.00003	-0.00002	-0.00002
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	0.00000	0.00002	0.00003
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	-0.00029	-0.00026	-0.00020
	(A * B * C * !D * !S1 * Y)	0.00205	0.00208	0.00211
	(A * B * C * !D * !S1 * Y)	0.00008	0.00009	0.00012
	(A * B * C * !D * !S1 * Y)	-0.00008	-0.00007	-0.00005
	(A * B * C * !D * !S1 * Y)	0.00089	0.00093	0.00097
	(A * B * !C * D * !S1 * Y)	0.00239	0.00243	0.00250
	(A * B * !C * D * !S1 * Y)	-0.00014	-0.00013	-0.00011
	(A * B * !C * D * !S1 * Y)	0.00011	0.00011	0.00013
	(A * B * !C * D * !S1 * Y)	-0.00009	-0.00004	0.00003
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	0.00150	0.00152	0.00156
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	-0.00003	-0.00002	-0.00001
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	0.00001	0.00002	0.00004
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	-0.00031	-0.00028	-0.00026
	(A * !B * C * D * S1 * Y)	0.00183	0.00187	0.00191
	(A * !B * C * D * S1 * Y)	0.00008	0.00009	0.00009
	(A * !B * C * D * S1 * Y)	-0.00008	-0.00007	-0.00006
	(A * !B * C * D * S1 * Y)	0.00056	0.00060	0.00067
	(A * !B * !C * !D * S1 * !Y)	0.00192	0.00196	0.00200
	(A * !B * !C * !D * S1 * !Y)	0.00007	0.00009	0.00010
	(A * !B * !C * !D * S1 * !Y)	-0.00008	-0.00008	-0.00007
	(A * !B * !C * !D * S1 * !Y)	0.00067	0.00070	0.00074
	(!A * B * C * D * S1 * Y)	0.00221	0.00226	0.00233
	(!A * B * C * D * S1 * Y)	-0.00013	-0.00013	-0.00013
	(!A * B * C * D * S1 * Y)	0.00010	0.00012	0.00013
	(!A * B * C * D * S1 * Y)	-0.00015	-0.00010	-0.00005
	(!A * B * !C * !D * S1 * !Y)	0.00204	0.00209	0.00216
	(!A * B * !C * !D * S1 * !Y)	-0.00013	-0.00013	-0.00010
	(!A * B * !C * !D * S1 * !Y)	0.00011	0.00011	0.00013
	(!A * B * !C * !D * S1 * !Y)	-0.00029	-0.00024	-0.00017
	(!A * !B * C * !D * !S1 * !Y)	0.00218	0.00222	0.00228
	(!A * !B * C * !D * !S1 * !Y)	0.00008	0.00009	0.00009
	(!A * !B * C * !D * !S1 * !Y)	-0.00008	-0.00007	-0.00006
	(!A * !B * C * !D * !S1 * !Y)	0.00104	0.00108	0.00113
	(!A * !B * !C * D * !S1 * !Y)	0.00220	0.00225	0.00230
	(!A * !B * !C * D * !S1 * !Y)	-0.00013	-0.00012	-0.00010
	(!A * !B * !C * D * !S1 * !Y)	0.00010	0.00011	0.00011
	(!A * !B * !C * D * !S1 * !Y)	-0.00026	-0.00020	-0.00013

Passive power(pJ) for S1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X0P7H7H	(B * D * S0 * Y)	-0.00015	-0.00012	-0.00008
	(B * D * S0 * Y)	0.00000	0.00002	0.00002
	(B * D * S0 * Y)	-0.00002	-0.00002	-0.00000
	(B * D * S0 * Y)	0.00104	0.00106	0.00107
	(A * C * !S0 * Y)	-0.00015	-0.00013	-0.00011
	(A * C * !S0 * Y)	0.00002	0.00002	0.00004
	(A * C * !S0 * Y)	-0.00002	-0.00002	-0.00001
	(A * C * !S0 * Y)	0.00104	0.00106	0.00110
	(!B * !D * S0 * !Y)	-0.00003	-0.00001	0.00001
	(!B * !D * S0 * !Y)	0.00001	0.00002	0.00002
	(!B * !D * S0 * !Y)	-0.00002	-0.00002	-0.00001
	(!B * !D * S0 * !Y)	0.00114	0.00117	0.00119
	(!A * !C * !S0 * !Y)	-0.00004	-0.00001	0.00002
	(!A * !C * !S0 * !Y)	0.00001	0.00002	0.00003
	(!A * !C * !S0 * !Y)	-0.00002	-0.00002	0.00000
	(!A * !C * !S0 * !Y)	0.00115	0.00116	0.00118

Passive power(pJ) for S1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X0P7H7H	(B * D * S0 * Y)	0.00102	0.00105	0.00108
	(B * D * S0 * Y)	-0.00002	-0.00002	-0.00000
	(B * D * S0 * Y)	0.00000	0.00002	0.00002
	(B * D * S0 * Y)	-0.00016	-0.00013	-0.00009
	(A * C * !S0 * Y)	0.00103	0.00105	0.00108
	(A * C * !S0 * Y)	-0.00002	-0.00002	-0.00001
	(A * C * !S0 * Y)	0.00001	0.00002	0.00003
	(A * C * !S0 * Y)	-0.00016	-0.00014	-0.00011
	(!B * !D * S0 * !Y)	0.00090	0.00093	0.00096
	(!B * !D * S0 * !Y)	-0.00002	-0.00002	-0.00001
	(!B * !D * S0 * !Y)	0.00001	0.00002	0.00002
	(!B * !D * S0 * !Y)	-0.00028	-0.00025	-0.00021
	(!A * !C * !S0 * !Y)	0.00090	0.00093	0.00096
	(!A * !C * !S0 * !Y)	-0.00003	-0.00002	-0.00001
	(!A * !C * !S0 * !Y)	0.00001	0.00002	0.00002
	(!A * !C * !S0 * !Y)	-0.00028	-0.00025	-0.00020

MUX4X1H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

MUX4, In: A, B, C, D, S0, S1, Out: Y

Truth Table

INPUT						OUTPUT
A	B	C	D	S0	S1	Y
0	0	0	0	x	x	0
0	x	0	1	0	x	0
x	0	x	1	1	0	0
x	x	x	1	1	1	1
0	0	1	x	x	0	0
0	x	1	x	0	1	1
0	x	1	0	1	1	0
0	1	0	x	0	x	0
0	1	x	x	1	0	1
0	1	x	0	1	1	0
0	1	1	x	0	0	0
1	0	0	x	0	0	1
1	x	0	0	x	1	0
1	0	x	0	1	x	0
1	x	0	1	0	1	0
1	x	1	x	0	x	1
1	1	0	x	x	0	1
1	1	1	x	1	0	1
1	1	1	0	1	1	0

Footprint

Cell Name	Area
MUX4X1H7H	6.44000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A	B	C	D	S0	S1	Y
MUX4X1H7H	0.00079	0.00075	0.00071	0.00080	0.00310	0.00190	0.04124

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
MUX4X1H7H	0.00000	0.04773	0.05331

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
MUX4X1H7H	A->Y (RR)	0.13505	0.31985	0.77287
	B->Y (RR)	0.13093	0.31681	0.77095
	C->Y (RR)	0.14515	0.33335	0.79498
	D->Y (RR)	0.14349	0.33236	0.79468
	S0->Y (-R)	0.19334	0.38376	0.83544
	S1->Y (-R)	0.10913	0.28964	0.71059

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
MUX4X1H7H	A->Y (FF)	0.18206	0.34909	0.74287
	B->Y (FF)	0.18157	0.34875	0.74238
	C->Y (FF)	0.20210	0.37273	0.77485
	D->Y (FF)	0.20628	0.37613	0.77730
	S0->Y (-F)	0.19382	0.36139	0.76158
	S1->Y (-F)	0.09889	0.25119	0.60389

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
MUX4X1H7H	A	0.00098	0.00103	0.00109
	A	0.00000	0.00016	0.00016
	A	-0.00014	-0.00013	-0.00011
	A	0.00230	0.00251	0.01056
	B	0.00077	0.00081	0.00086
	B	0.00016	0.00016	0.00016
	B	-0.00014	-0.00014	-0.00013
	B	0.00209	0.00213	0.00218
	C	0.00072	0.00076	0.00081
	C	0.00016	0.00016	0.00017
	C	-0.00014	-0.00014	-0.00013
	C	0.00210	0.00214	0.00218
	D	0.00046	0.00050	0.00055
	D	0.00016	0.00016	0.00017
	D	-0.00014	-0.00013	-0.00012
	D	0.00191	0.00195	0.00201
	S0	0.00368	0.00378	0.00390
	S0	0.00032	0.00032	0.00033
	S0	-0.00004	-0.00003	0.00007
	S0	0.00408	0.00420	0.00433
	S1	0.00194	0.00202	0.00218
	S1	0.00005	0.00005	0.00007
	S1	-0.00001	-0.00000	0.00000
	S1	0.00184	0.00192	0.00200

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
MUX4X1H7H	A	0.00202	0.00206	0.00212
	A	-0.00016	-0.00016	0.00000
	A	0.00011	0.00013	0.00016
	A	0.00070	0.00074	0.00080
	B	0.00222	0.00226	0.00231
	B	-0.00016	-0.00016	-0.00014
	B	0.00013	0.00014	0.00016
	B	0.00091	0.00095	0.00100
	C	0.00263	0.00266	0.00271
	C	-0.00017	-0.00016	-0.00016
	C	0.00013	0.00014	0.00016
	C	0.00124	0.00128	0.00132
	D	0.00289	0.00293	0.00299
	D	-0.00017	-0.00016	-0.00016
	D	0.00013	0.00014	0.00016
	D	0.00145	0.00149	0.00154
	S0	0.00423	0.00432	0.00445
	S0	0.00000	0.00001	0.00008
	S0	0.00027	0.00027	0.00029
	S0	0.00397	0.00408	0.00419
	S1	0.00192	0.00200	0.00208
	S1	-0.00002	-0.00001	0.00002
	S1	0.00003	0.00005	0.00007
	S1	0.00225	0.00233	0.00246

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X1H7H	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00013	0.00014	0.00016
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00012	0.00012	0.00013
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	-0.00011	-0.00011	-0.00011
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00116	0.00118	0.00120
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00009	-0.00008	-0.00007
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00002	-0.00002	-0.00002
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00001	0.00001	0.00002
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00030	0.00030	0.00030

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X1H7H	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00110	0.00111	0.00113
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	-0.00013	-0.00012	-0.00012
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00011	0.00011	0.00011
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00005	0.00007	0.00009
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00009	0.00009	0.00009
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00002	0.00002	0.00002
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00001	-0.00001	-0.00001
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00030	-0.00029	-0.00029

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X1H7H	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	-0.00008	-0.00007	-0.00006
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	0.00012	0.00013	0.00013
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	-0.00012	-0.00011	-0.00011
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	0.00096	0.00097	0.00099
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00014	-0.00013	-0.00013
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00002	-0.00002	-0.00002
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00001	0.00001	0.00002
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00023	0.00023	0.00023

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X1H7H	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	0.00130	0.00131	0.00133
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	-0.00013	-0.00013	-0.00012
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	0.00011	0.00011	0.00012
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	0.00026	0.00027	0.00028
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00014	0.00014	0.00014
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00002	0.00002	0.00002
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00001	-0.00001	-0.00001
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00023	-0.00022	-0.00021

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X1H7H	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00009	-0.00008	-0.00007
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00002	-0.00002	-0.00002
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00001	0.00001	0.00002
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00022	0.00022	0.00023
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00033	0.00034	0.00035
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00012	0.00012	0.00013
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	-0.00011	-0.00011	-0.00011
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00143	0.00144	0.00146

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X1H7H	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00009	0.00009	0.00009
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00002	0.00002	0.00002
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00002	-0.00001	-0.00001
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00022	-0.00022	-0.00021
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00130	0.00131	0.00131
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	-0.00012	-0.00012	-0.00012
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00011	0.00011	0.00011
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00019	0.00020	0.00022

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X1H7H	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00007	0.00008	0.00010
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00012	0.00013	0.00013
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	-0.00011	-0.00011	-0.00010
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00124	0.00125	0.00127
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00014	-0.00014	-0.00013
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00002	-0.00002	-0.00002
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00001	0.00002	0.00002
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00022	0.00022	0.00023

Passive power(pJ) for D falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X1H7H	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00155	0.00158	0.00160
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	-0.00012	-0.00012	-0.00012
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00010	0.00011	0.00011
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00039	0.00041	0.00044
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00014	0.00014	0.00015
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00002	0.00002	0.00002
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00002	-0.00001	-0.00001
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00022	-0.00022	-0.00021

Passive power(pJ) for S0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

MUX4X1H7H	**(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)**	-0.00013	-0.00011	-0.00007
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	0.00002	0.00003	0.00003
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	-0.00002	-0.00002	-0.00001
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	0.00170	0.00173	0.00177
	(A * B * C * !D * !S1 * Y)	0.00125	0.00131	0.00136
	(A * B * C * !D * !S1 * Y)	-0.00010	-0.00008	-0.00006
	(A * B * C * !D * !S1 * Y)	0.00004	0.00007	0.00009
	(A * B * C * !D * !S1 * Y)	0.00242	0.00247	0.00254
	(A * B * !C * D * !S1 * Y)	-0.00009	-0.00004	0.00003
	(A * B * !C * D * !S1 * Y)	0.00013	0.00014	0.00014
	(A * B * !C * D * !S1 * Y)	-0.00012	-0.00011	-0.00008
	(A * B * !C * D * !S1 * Y)	0.00240	0.00245	0.00251
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	-0.00011	-0.00008	-0.00004
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	0.00002	0.00003	0.00003
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	-0.00002	-0.00001	0.00001
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	0.00171	0.00173	0.00177
	(A * !B * C * D * S1 * Y)	0.00100	0.00105	0.00111
	(A * !B * C * D * S1 * Y)	-0.00009	-0.00009	-0.00008
	(A * !B * C * D * S1 * Y)	0.00006	0.00007	0.00008
	(A * !B * C * D * S1 * Y)	0.00228	0.00234	0.00240
	(A * !B * !C * !D * S1 * !Y)	0.00089	0.00096	0.00102
	(A * !B * !C * !D * S1 * !Y)	-0.00010	-0.00008	-0.00006
	(A * !B * !C * !D * S1 * !Y)	0.00008	0.00009	0.00012
	(A * !B * !C * !D * S1 * !Y)	0.00216	0.00221	0.00228
	(!A * B * C * D * S1 * Y)	-0.00024	-0.00019	-0.00014
	(!A * B * C * D * S1 * Y)	0.00013	0.00014	0.00016
	(!A * B * C * D * S1 * Y)	-0.00012	-0.00011	-0.00009
	(!A * B * C * D * S1 * Y)	0.00213	0.00217	0.00224
	(!A * B * !C * !D * S1 * !Y)	-0.00008	-0.00004	0.00003
	(!A * B * !C * !D * S1 * !Y)	0.00012	0.00013	0.00016
	(!A * B * !C * !D * S1 * !Y)	-0.00011	-0.00010	-0.00008
	(!A * B * !C * !D * S1 * !Y)	0.00226	0.00231	0.00237
	(!A * !B * C * !D * !S1 * !Y)	0.00111	0.00118	0.00124
	(!A * !B * C * !D * !S1 * !Y)	-0.00009	-0.00009	-0.00008
	(!A * !B * C * !D * !S1 * !Y)	0.00005	0.00008	0.00009
	(!A * !B * C * !D * !S1 * !Y)	0.00226	0.00231	0.00239
	(!A * !B * !C * D * !S1 * !Y)	0.00009	0.00014	0.00023
	(!A * !B * !C * D * !S1 * !Y)	0.00010	0.00013	0.00013
	(!A * !B * !C * D * !S1 * !Y)	-0.00011	-0.00011	-0.00010
	(!A * !B * !C * D * !S1 * !Y)	0.00256	0.00261	0.00266

Passive power(pJ) for S0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

MUX4X1H7H	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	0.00155	0.00157	0.00161
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	-0.00002	-0.00002	-0.00001
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	0.00001	0.00002	0.00003
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	-0.00029	-0.00026	-0.00019
	(A * B * C * !D * !S1 * Y)	0.00206	0.00210	0.00215
	(A * B * C * !D * !S1 * Y)	0.00006	0.00009	0.00011
	(A * B * C * !D * !S1 * Y)	-0.00009	-0.00007	-0.00004
	(A * B * C * !D * !S1 * Y)	0.00090	0.00094	0.00099
	(A * B * !C * D * !S1 * Y)	0.00240	0.00245	0.00252
	(A * B * !C * D * !S1 * Y)	-0.00014	-0.00013	-0.00011
	(A * B * !C * D * !S1 * Y)	0.00011	0.00012	0.00013
	(A * B * !C * D * !S1 * Y)	-0.00009	-0.00004	0.00004
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	0.00151	0.00153	0.00157
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	-0.00003	-0.00002	-0.00001
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	0.00002	0.00002	0.00004
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	-0.00030	-0.00028	-0.00026
	(A * !B * C * D * S1 * Y)	0.00184	0.00188	0.00193
	(A * !B * C * D * S1 * Y)	0.00008	0.00009	0.00009
	(A * !B * C * D * S1 * Y)	-0.00008	-0.00007	-0.00006
	(A * !B * C * D * S1 * Y)	0.00056	0.00060	0.00065
	(A * !B * !C * !D * S1 * !Y)	0.00194	0.00197	0.00202
	(A * !B * !C * !D * S1 * !Y)	0.00006	0.00008	0.00010
	(A * !B * !C * !D * S1 * !Y)	-0.00008	-0.00008	-0.00006
	(A * !B * !C * !D * S1 * !Y)	0.00067	0.00071	0.00075
	(!A * B * C * D * S1 * Y)	0.00222	0.00227	0.00234
	(!A * B * C * D * S1 * Y)	-0.00013	-0.00013	-0.00013
	(!A * B * C * D * S1 * Y)	0.00010	0.00012	0.00014
	(!A * B * C * D * S1 * Y)	-0.00015	-0.00010	-0.00004
	(!A * B * !C * !D * S1 * !Y)	0.00206	0.00211	0.00217
	(!A * B * !C * !D * S1 * !Y)	-0.00013	-0.00012	-0.00010
	(!A * B * !C * !D * S1 * !Y)	0.00011	0.00012	0.00013
	(!A * B * !C * !D * S1 * !Y)	-0.00029	-0.00024	-0.00017
	(!A * !B * C * !D * !S1 * !Y)	0.00220	0.00222	0.00226
	(!A * !B * C * !D * !S1 * !Y)	0.00008	0.00009	0.00011
	(!A * !B * C * !D * !S1 * !Y)	-0.00008	-0.00007	-0.00005
	(!A * !B * C * !D * !S1 * !Y)	0.00105	0.00109	0.00113
	(!A * !B * !C * D * !S1 * !Y)	0.00222	0.00227	0.00232
	(!A * !B * !C * D * !S1 * !Y)	-0.00013	-0.00012	-0.00010
	(!A * !B * !C * D * !S1 * !Y)	0.00010	0.00011	0.00011
	(!A * !B * !C * D * !S1 * !Y)	-0.00025	-0.00020	-0.00014

Passive power(pJ) for S1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X1H7H	(B * D * S0 * Y)	-0.00015	-0.00012	-0.00008
	(B * D * S0 * Y)	0.00000	0.00002	0.00002
	(B * D * S0 * Y)	-0.00002	-0.00002	-0.00001
	(B * D * S0 * Y)	0.00105	0.00107	0.00110
	(A * C * !S0 * Y)	-0.00015	-0.00013	-0.00011
	(A * C * !S0 * Y)	0.00001	0.00002	0.00003
	(A * C * !S0 * Y)	-0.00003	-0.00002	-0.00001
	(A * C * !S0 * Y)	0.00105	0.00107	0.00109
	(!B * !D * S0 * !Y)	-0.00005	-0.00003	-0.00000
	(!B * !D * S0 * !Y)	0.00001	0.00002	0.00002
	(!B * !D * S0 * !Y)	-0.00002	-0.00002	-0.00000
	(!B * !D * S0 * !Y)	0.00114	0.00117	0.00121
	(!A * !C * !S0 * !Y)	-0.00005	-0.00003	-0.00001
	(!A * !C * !S0 * !Y)	0.00001	0.00002	0.00004
	(!A * !C * !S0 * !Y)	-0.00004	-0.00002	-0.00002
	(!A * !C * !S0 * !Y)	0.00114	0.00117	0.00121

Passive power(pJ) for S1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X1H7H	(B * D * S0 * Y)	0.00102	0.00105	0.00108
	(B * D * S0 * Y)	-0.00002	-0.00002	-0.00000
	(B * D * S0 * Y)	0.00001	0.00002	0.00003
	(B * D * S0 * Y)	-0.00018	-0.00015	-0.00013
	(A * C * !S0 * Y)	0.00102	0.00105	0.00108
	(A * C * !S0 * Y)	-0.00003	-0.00002	-0.00001
	(A * C * !S0 * Y)	0.00001	0.00002	0.00003
	(A * C * !S0 * Y)	-0.00018	-0.00015	-0.00012
	(!B * !D * S0 * !Y)	0.00092	0.00094	0.00097
	(!B * !D * S0 * !Y)	-0.00002	-0.00002	-0.00001
	(!B * !D * S0 * !Y)	0.00000	0.00002	0.00003
	(!B * !D * S0 * !Y)	-0.00027	-0.00025	-0.00020
	(!A * !C * !S0 * !Y)	0.00092	0.00094	0.00097
	(!A * !C * !S0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A * !C * !S0 * !Y)	0.00002	0.00002	0.00004
	(!A * !C * !S0 * !Y)	-0.00028	-0.00026	-0.00023

MUX4X1P4H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

MUX4, In: A, B, C, D, S0, S1, Out: Y

Truth Table

INPUT						OUTPUT
A	B	C	D	S0	S1	Y
0	0	0	0	x	x	0
0	x	0	1	0	x	0
x	0	x	1	1	0	0
x	x	x	1	1	1	1
0	0	1	x	x	0	0
0	x	1	x	0	1	1
0	x	1	0	1	1	0
0	1	0	x	0	x	0
0	1	x	x	1	0	1
0	1	x	0	1	1	0
0	1	1	x	0	0	0
1	0	0	x	0	0	1
1	x	0	0	x	1	0
1	0	x	0	1	x	0
1	x	0	1	0	1	0
1	x	1	x	0	x	1
1	1	0	x	x	0	1
1	1	1	x	1	0	1
1	1	1	0	1	1	0

Footprint

Cell Name	Area
MUX4X1P4H7H	6.44000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A	B	C	D	S0	S1	Y
MUX4X1P4H7H	0.00079	0.00075	0.00071	0.00080	0.00309	0.00189	0.04691

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
MUX4X1P4H7H	0.00000	0.05052	0.05873

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
MUX4X1P4H7H	A->Y (RR)	0.13542	0.32121	0.77503
	B->Y (RR)	0.13131	0.31822	0.77364
	C->Y (RR)	0.14694	0.33643	0.79988
	D->Y (RR)	0.14527	0.33544	0.80014
	S0->Y (-R)	0.19564	0.38709	0.83930
	S1->Y (-R)	0.10980	0.29117	0.71275

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
MUX4X1P4H7H	A->Y (FF)	0.18352	0.35284	0.75010
	B->Y (FF)	0.18303	0.35251	0.74968
	C->Y (FF)	0.20590	0.37913	0.78550
	D->Y (FF)	0.21007	0.38252	0.78757
	S0->Y (-F)	0.19652	0.36663	0.77102
	S1->Y (-F)	0.10125	0.25643	0.61466

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
MUX4X1P4H7H	A	0.00105	0.00110	0.00115
	A	0.00015	0.00015	0.00016
	A	-0.00014	-0.00013	-0.00011
	A	0.00235	0.00240	0.00246
	B	0.00083	0.00087	0.00093
	B	0.00015	0.00016	0.00018
	B	-0.00013	-0.00013	-0.00012
	B	0.00214	0.00218	0.00224
	C	0.00078	0.00082	0.00087
	C	0.00014	0.00015	0.00016
	C	-0.00014	-0.00013	-0.00012
	C	0.00215	0.00219	0.00224
	D	0.00051	0.00056	0.00062
	D	0.00015	0.00015	0.00016
	D	-0.00014	-0.00013	-0.00012
	D	0.00196	0.00200	0.00206
	S0	0.00375	0.00385	0.00398
	S0	0.00032	0.00037	0.00154
	S0	-0.00023	0.00157	0.04461
	S0	0.00379	0.00425	0.00444
	S1	0.00199	0.00208	0.00224
	S1	0.00004	0.00005	0.00006
	S1	-0.00000	0.00000	0.00002
	S1	0.00188	0.00196	0.00205

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
MUX4X1P4H7H	A	0.00205	0.00210	0.00216
	A	-0.00016	-0.00015	-0.00015
	A	0.00011	0.00013	0.00016
	A	0.00074	0.00079	0.00085
	B	0.00225	0.00230	0.00235
	B	-0.00016	-0.00016	-0.00015
	B	0.00012	0.00013	0.00013
	B	0.00096	0.00100	0.00105
	C	0.00270	0.00274	0.00279
	C	-0.00016	-0.00015	-0.00014
	C	0.00012	0.00013	0.00015
	C	0.00132	0.00136	0.00142
	D	0.00296	0.00301	0.00307
	D	-0.00016	-0.00015	-0.00015
	D	0.00012	0.00013	0.00014
	D	0.00153	0.00157	0.00163
	S0	0.00431	0.00441	0.00455
	S0	-0.00000	0.00002	0.00010
	S0	0.00021	0.00023	0.00029
	S0	0.00404	0.00414	0.00426
	S1	0.00196	0.00204	0.00212
	S1	-0.00002	-0.00001	0.00000
	S1	0.00004	0.00004	0.00007
	S1	0.00231	0.00238	0.00255

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X1P4H7H	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00013	0.00014	0.00016
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00012	0.00012	0.00013
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	-0.00011	-0.00011	-0.00010
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00116	0.00118	0.00121
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00009	-0.00008	-0.00007
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00002	-0.00002	-0.00002
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00001	0.00001	0.00002
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00029	0.00029	0.00029

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X1P4H7H	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00108	0.00110	0.00113
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	-0.00013	-0.00012	-0.00012
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00010	0.00011	0.00011
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00004	0.00006	0.00008
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00009	0.00009	0.00009
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00002	0.00002	0.00002
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00002	-0.00001	-0.00001
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00029	-0.00029	-0.00028

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X1P4H7H	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	-0.00008	-0.00007	-0.00006
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	0.00012	0.00013	0.00013
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	-0.00011	-0.00011	-0.00010
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	0.00096	0.00097	0.00099
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00014	-0.00013	-0.00012
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00002	-0.00002	-0.00002
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00001	0.00001	0.00002
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00022	0.00022	0.00023

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X1P4H7H	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	0.00129	0.00130	0.00132
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	-0.00013	-0.00013	-0.00012
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	0.00010	0.00011	0.00011
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	0.00025	0.00026	0.00028
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00014	0.00014	0.00014
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00002	0.00002	0.00002
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00001	-0.00001	-0.00001
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00022	-0.00022	-0.00021

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X1P4H7H	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00009	-0.00008	-0.00007
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00002	-0.00002	-0.00002
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00001	0.00001	0.00001
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00022	0.00022	0.00022
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00034	0.00034	0.00035
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00012	0.00012	0.00013
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	-0.00011	-0.00011	-0.00011
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00144	0.00145	0.00147

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X1P4H7H	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00009	0.00009	0.00009
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00002	0.00002	0.00002
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00001	-0.00001	-0.00001
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00022	-0.00021	-0.00021
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00132	0.00133	0.00134
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	-0.00012	-0.00012	-0.00012
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00011	0.00011	0.00011
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00022	0.00023	0.00024

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X1P4H7H	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00008	0.00009	0.00010
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00012	0.00013	0.00013
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	-0.00011	-0.00011	-0.00009
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00125	0.00126	0.00127
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00014	-0.00014	-0.00013
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00002	-0.00002	-0.00002
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00001	0.00001	0.00002
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00022	0.00022	0.00023

Passive power(pJ) for D falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X1P4H7H	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00158	0.00160	0.00162
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	-0.00012	-0.00012	-0.00011
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00010	0.00011	0.00011
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00042	0.00043	0.00046
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00014	0.00014	0.00015
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00002	0.00002	0.00002
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00001	-0.00001	-0.00001
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00022	-0.00022	-0.00021

Passive power(pJ) for S0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

MUX4X1P4H7H	**(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)**	-0.00013	-0.00011	-0.00007
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	0.00002	0.00003	0.00003
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	-0.00003	-0.00002	0.00001
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	0.00170	0.00172	0.00175
	(A * B * C * !D * !S1 * Y)	0.00128	0.00133	0.00138
	(A * B * C * !D * !S1 * Y)	-0.00009	-0.00008	-0.00006
	(A * B * C * !D * !S1 * Y)	0.00007	0.00007	0.00008
	(A * B * C * !D * !S1 * Y)	0.00244	0.00249	0.00253
	(A * B * !C * D * !S1 * Y)	-0.00008	-0.00003	0.00004
	(A * B * !C * D * !S1 * Y)	0.00013	0.00013	0.00014
	(A * B * !C * D * !S1 * Y)	-0.00012	-0.00011	-0.00008
	(A * B * !C * D * !S1 * Y)	0.00241	0.00246	0.00252
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	-0.00010	-0.00008	-0.00004
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	0.00000	0.00002	0.00002
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	-0.00003	-0.00002	-0.00001
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	0.00170	0.00173	0.00177
	(A * !B * C * D * S1 * Y)	0.00098	0.00104	0.00110
	(A * !B * C * D * S1 * Y)	-0.00009	-0.00009	-0.00006
	(A * !B * C * D * S1 * Y)	0.00007	0.00008	0.00011
	(A * !B * C * D * S1 * Y)	0.00227	0.00232	0.00236
	(A * !B * !C * !D * S1 * !Y)	0.00089	0.00096	0.00102
	(A * !B * !C * !D * S1 * !Y)	-0.00010	-0.00009	-0.00008
	(A * !B * !C * !D * S1 * !Y)	0.00006	0.00008	0.00008
	(A * !B * !C * !D * S1 * !Y)	0.00216	0.00222	0.00229
	(!A * B * C * D * S1 * Y)	-0.00024	-0.00019	-0.00013
	(!A * B * C * D * S1 * Y)	0.00012	0.00013	0.00014
	(!A * B * C * D * S1 * Y)	-0.00012	-0.00011	-0.00009
	(!A * B * C * D * S1 * Y)	0.00212	0.00216	0.00221
	(!A * B * !C * !D * S1 * !Y)	-0.00010	-0.00005	0.00001
	(!A * B * !C * !D * S1 * !Y)	0.00013	0.00014	0.00015
	(!A * B * !C * !D * S1 * !Y)	-0.00011	-0.00010	-0.00007
	(!A * B * !C * !D * S1 * !Y)	0.00224	0.00229	0.00235
	(!A * !B * C * !D * !S1 * !Y)	0.00115	0.00121	0.00127
	(!A * !B * C * !D * !S1 * !Y)	-0.00009	-0.00008	-0.00007
	(!A * !B * C * !D * !S1 * !Y)	0.00005	0.00007	0.00008
	(!A * !B * C * !D * !S1 * !Y)	0.00229	0.00235	0.00242
	(!A * !B * !C * D * !S1 * !Y)	0.00009	0.00014	0.00022
	(!A * !B * !C * D * !S1 * !Y)	0.00012	0.00013	0.00014
	(!A * !B * !C * D * !S1 * !Y)	-0.00011	-0.00010	-0.00009
	(!A * !B * !C * D * !S1 * !Y)	0.00255	0.00260	0.00268

Passive power(pJ) for S0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

MUX4X1P4H7H	**(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)**	0.00154	0.00157	0.00161
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	-0.00002	-0.00002	-0.00002
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	0.00001	0.00003	0.00004
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	-0.00029	-0.00026	-0.00022
	(A * B * C * !D * !S1 * Y)	0.00207	0.00210	0.00215
	(A * B * C * !D * !S1 * Y)	0.00006	0.00008	0.00009
	(A * B * C * !D * !S1 * Y)	-0.00008	-0.00007	-0.00007
	(A * B * C * !D * !S1 * Y)	0.00091	0.00095	0.00099
	(A * B * !C * D * !S1 * Y)	0.00243	0.00248	0.00254
	(A * B * !C * D * !S1 * Y)	-0.00014	-0.00013	-0.00011
	(A * B * !C * D * !S1 * Y)	0.00010	0.00011	0.00012
	(A * B * !C * D * !S1 * Y)	-0.00007	-0.00001	0.00006
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	0.00151	0.00153	0.00157
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	-0.00002	-0.00002	0.00000
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	0.00002	0.00002	0.00003
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	-0.00030	-0.00028	-0.00026
	(A * !B * C * D * S1 * Y)	0.00184	0.00188	0.00194
	(A * !B * C * D * S1 * Y)	0.00006	0.00009	0.00010
	(A * !B * C * D * S1 * Y)	-0.00007	-0.00007	-0.00006
	(A * !B * C * D * S1 * Y)	0.00056	0.00060	0.00065
	(A * !B * !C * !D * S1 * !Y)	0.00192	0.00195	0.00199
	(A * !B * !C * !D * S1 * !Y)	0.00009	0.00010	0.00013
	(A * !B * !C * !D * S1 * !Y)	-0.00008	-0.00008	-0.00006
	(A * !B * !C * !D * S1 * !Y)	0.00066	0.00070	0.00077
	(!A * B * C * D * S1 * Y)	0.00221	0.00226	0.00233
	(!A * B * C * D * S1 * Y)	-0.00013	-0.00013	-0.00012
	(!A * B * C * D * S1 * Y)	0.00011	0.00012	0.00014
	(!A * B * C * D * S1 * Y)	-0.00016	-0.00012	-0.00006
	(!A * B * !C * !D * S1 * !Y)	0.00206	0.00210	0.00217
	(!A * B * !C * !D * S1 * !Y)	-0.00014	-0.00013	-0.00013
	(!A * B * !C * !D * S1 * !Y)	0.00010	0.00011	0.00012
	(!A * B * !C * !D * S1 * !Y)	-0.00029	-0.00024	-0.00018
	(!A * !B * C * !D * !S1 * !Y)	0.00219	0.00222	0.00228
	(!A * !B * C * !D * !S1 * !Y)	0.00007	0.00008	0.00009
	(!A * !B * C * !D * !S1 * !Y)	-0.00008	-0.00007	-0.00005
	(!A * !B * C * !D * !S1 * !Y)	0.00105	0.00109	0.00113
	(!A * !B * !C * D * !S1 * !Y)	0.00225	0.00230	0.00235
	(!A * !B * !C * D * !S1 * !Y)	-0.00013	-0.00013	-0.00012
	(!A * !B * !C * D * !S1 * !Y)	0.00010	0.00011	0.00011
	(!A * !B * !C * D * !S1 * !Y)	-0.00022	-0.00017	-0.00010

Passive power(pJ) for S1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X1P4H7H	(B * D * S0 * Y)	-0.00015	-0.00013	-0.00011
	(B * D * S0 * Y)	0.00002	0.00002	0.00004
	(B * D * S0 * Y)	-0.00002	-0.00002	-0.00001
	(B * D * S0 * Y)	0.00105	0.00107	0.00110
	(A * C * !S0 * Y)	-0.00015	-0.00013	-0.00011
	(A * C * !S0 * Y)	0.00002	0.00002	0.00004
	(A * C * !S0 * Y)	-0.00002	-0.00002	-0.00001
	(A * C * !S0 * Y)	0.00104	0.00107	0.00109
	(!B * !D * S0 * !Y)	-0.00004	-0.00002	0.00001
	(!B * !D * S0 * !Y)	0.00001	0.00002	0.00002
	(!B * !D * S0 * !Y)	-0.00002	-0.00002	-0.00000
	(!B * !D * S0 * !Y)	0.00115	0.00117	0.00119
	(!A * !C * !S0 * !Y)	-0.00004	-0.00002	-0.00000
	(!A * !C * !S0 * !Y)	0.00001	0.00002	0.00004
	(!A * !C * !S0 * !Y)	-0.00002	-0.00002	-0.00000
	(!A * !C * !S0 * !Y)	0.00115	0.00117	0.00122

Passive power(pJ) for S1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X1P4H7H	(B * D * S0 * Y)	0.00102	0.00104	0.00107
	(B * D * S0 * Y)	-0.00002	-0.00002	-0.00001
	(B * D * S0 * Y)	0.00001	0.00002	0.00002
	(B * D * S0 * Y)	-0.00017	-0.00015	-0.00011
	(A * C * !S0 * Y)	0.00102	0.00104	0.00107
	(A * C * !S0 * Y)	-0.00002	-0.00002	-0.00002
	(A * C * !S0 * Y)	0.00001	0.00002	0.00003
	(A * C * !S0 * Y)	-0.00017	-0.00015	-0.00011
	(!B * !D * S0 * !Y)	0.00091	0.00093	0.00096
	(!B * !D * S0 * !Y)	-0.00002	-0.00002	-0.00001
	(!B * !D * S0 * !Y)	0.00002	0.00002	0.00002
	(!B * !D * S0 * !Y)	-0.00028	-0.00026	-0.00022
	(!A * !C * !S0 * !Y)	0.00091	0.00093	0.00097
	(!A * !C * !S0 * !Y)	-0.00003	-0.00002	-0.00001
	(!A * !C * !S0 * !Y)	0.00000	0.00002	0.00002
	(!A * !C * !S0 * !Y)	-0.00028	-0.00026	-0.00021

MUX4X2H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

MUX4, In: A, B, C, D, S0, S1, Out: Y

Truth Table

INPUT						OUTPUT
A	B	C	D	S0	S1	Y
0	0	0	0	x	x	0
0	x	0	1	0	x	0
x	0	x	1	1	0	0
x	x	x	1	1	1	1
0	0	1	x	x	0	0
0	x	1	x	0	1	1
0	x	1	0	1	1	0
0	1	0	x	0	x	0
0	1	x	x	1	0	1
0	1	x	0	1	1	0
0	1	1	x	0	0	0
1	0	0	x	0	0	1
1	x	0	0	x	1	0
1	0	x	0	1	x	0
1	x	0	1	0	1	0
1	x	1	x	0	x	1
1	1	0	x	x	0	1
1	1	1	x	1	0	1
1	1	1	0	1	1	0

Footprint

Cell Name	Area
MUX4X2H7H	6.72000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A	B	C	D	S0	S1	Y
MUX4X2H7H	0.00079	0.00075	0.00071	0.00080	0.00309	0.00188	0.06034

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
MUX4X2H7H	0.00000	0.05065	0.05731

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
MUX4X2H7H	A->Y (RR)	0.15059	0.34111	0.80210
	B->Y (RR)	0.14648	0.33805	0.80025
	C->Y (RR)	0.16078	0.35438	0.82369
	D->Y (RR)	0.15907	0.35332	0.82375
	S0->Y (-R)	0.20870	0.40342	0.85805
	S1->Y (-R)	0.12250	0.30809	0.73309

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
MUX4X2H7H	A->Y (FF)	0.20374	0.37503	0.77058
	B->Y (FF)	0.20328	0.37471	0.77036
	C->Y (FF)	0.22423	0.39866	0.80175
	D->Y (FF)	0.22841	0.40211	0.80430
	S0->Y (-F)	0.21576	0.38748	0.78894
	S1->Y (-F)	0.12378	0.28410	0.65034

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
MUX4X2H7H	A	0.00133	0.00139	0.00148
	A	0.00015	0.00015	0.00015
	A	-0.00013	-0.00012	-0.00011
	A	0.00262	0.00268	0.00277
	B	0.00111	0.00117	0.00125
	B	0.00015	0.00015	0.00015
	B	-0.00013	-0.00012	-0.00012
	B	0.00241	0.00247	0.00255
	C	0.00105	0.00111	0.00119
	C	0.00013	0.00015	0.00015
	C	-0.00013	-0.00012	-0.00009
	C	0.00241	0.00247	0.00255
	D	0.00079	0.00085	0.00093
	D	0.00015	0.00015	0.00015
	D	-0.00012	-0.00012	-0.00012
	D	0.00222	0.00228	0.00237
	S0	0.00401	0.00413	0.00428
	S0	0.00028	0.00028	0.00047
	S0	-0.00022	-0.00008	0.00492
	S0	0.00387	0.00400	0.00485
	S1	0.00225	0.00236	0.00254
	S1	0.00003	0.00004	0.00005
	S1	0.00001	0.00001	0.00003
	S1	0.00214	0.00225	0.00236

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
MUX4X2H7H	A	0.00243	0.00248	0.00257
	A	-0.00015	-0.00015	-0.00014
	A	0.00012	0.00012	0.00014
	A	0.00113	0.00119	0.00127
	B	0.00263	0.00268	0.00276
	B	-0.00015	-0.00015	-0.00015
	B	0.00012	0.00012	0.00013
	B	0.00134	0.00139	0.00147
	C	0.00305	0.00310	0.00317
	C	-0.00015	-0.00015	-0.00013
	C	0.00009	0.00012	0.00015
	C	0.00169	0.00173	0.00181
	D	0.00332	0.00337	0.00345
	D	-0.00015	-0.00015	-0.00015
	D	0.00012	0.00012	0.00012
	D	0.00189	0.00194	0.00203
	S0	0.00464	0.00476	0.00491
	S0	-0.00003	0.00002	0.00007
	S0	0.00021	0.00022	0.00028
	S0	0.00442	0.00453	0.00466
	S1	0.00231	0.00242	0.00253
	S1	-0.00001	-0.00000	0.00003
	S1	0.00000	0.00003	0.00005
	S1	0.00265	0.00277	0.00293

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X2H7H	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00013	0.00014	0.00016
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00012	0.00012	0.00013
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	-0.00011	-0.00011	-0.00010
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00116	0.00118	0.00119
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00009	-0.00008	-0.00007
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00002	-0.00002	-0.00002
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00001	0.00001	0.00002
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00030	0.00030	0.00030

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X2H7H	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00110	0.00111	0.00114
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	-0.00013	-0.00012	-0.00012
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00010	0.00011	0.00011
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00005	0.00007	0.00009
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00009	0.00009	0.00009
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00002	0.00002	0.00002
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00001	-0.00001	-0.00001
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00030	-0.00029	-0.00028

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X2H7H	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	-0.00008	-0.00007	-0.00006
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	0.00012	0.00013	0.00013
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	-0.00011	-0.00011	-0.00010
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	0.00096	0.00097	0.00098
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00014	-0.00013	-0.00012
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00002	-0.00002	-0.00002
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00001	0.00001	0.00002
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00022	0.00022	0.00023

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X2H7H	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	0.00130	0.00131	0.00133
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	-0.00013	-0.00013	-0.00012
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	0.00010	0.00011	0.00011
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	0.00026	0.00027	0.00030
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00014	0.00014	0.00014
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00002	0.00002	0.00002
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00002	-0.00001	-0.00001
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00023	-0.00022	-0.00021

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X2H7H	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00009	-0.00008	-0.00007
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00002	-0.00002	-0.00002
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00001	0.00001	0.00002
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00022	0.00022	0.00023
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00034	0.00034	0.00035
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00012	0.00012	0.00013
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	-0.00011	-0.00011	-0.00011
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00144	0.00145	0.00147

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X2H7H	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00009	0.00009	0.00009
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00002	0.00002	0.00002
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00002	-0.00001	-0.00001
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00022	-0.00022	-0.00021
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00130	0.00131	0.00133
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	-0.00013	-0.00012	-0.00012
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00011	0.00011	0.00011
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00019	0.00020	0.00021

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X2H7H	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00008	0.00009	0.00011
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00012	0.00012	0.00013
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	-0.00011	-0.00011	-0.00010
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00125	0.00126	0.00127
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00014	-0.00014	-0.00012
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00002	-0.00002	-0.00002
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00001	0.00001	0.00001
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00022	0.00022	0.00023

Passive power(pJ) for D falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X2H7H	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00155	0.00157	0.00161
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	-0.00013	-0.00012	-0.00012
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00011	0.00011	0.00012
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00039	0.00040	0.00042
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00014	0.00014	0.00014
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00002	0.00002	0.00002
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00001	-0.00001	-0.00001
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00022	-0.00022	-0.00021

Passive power(pJ) for S0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

MUX4X2H7H	**(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)**	-0.00013	-0.00011	-0.00007
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	0.00002	0.00003	0.00003
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	-0.00002	-0.00002	-0.00001
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	0.00170	0.00173	0.00179
	(A * B * C * !D * !S1 * Y)	0.00125	0.00131	0.00136
	(A * B * C * !D * !S1 * Y)	-0.00009	-0.00008	-0.00008
	(A * B * C * !D * !S1 * Y)	0.00007	0.00008	0.00010
	(A * B * C * !D * !S1 * Y)	0.00242	0.00246	0.00250
	(A * B * !C * D * !S1 * Y)	-0.00008	-0.00003	0.00001
	(A * B * !C * D * !S1 * Y)	0.00013	0.00014	0.00016
	(A * B * !C * D * !S1 * Y)	-0.00012	-0.00011	-0.00009
	(A * B * !C * D * !S1 * Y)	0.00241	0.00246	0.00255
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	-0.00010	-0.00008	-0.00004
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	-0.00001	0.00002	0.00003
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	-0.00002	-0.00001	0.00001
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	0.00171	0.00173	0.00175
	(A * !B * C * D * S1 * Y)	0.00100	0.00106	0.00112
	(A * !B * C * D * S1 * Y)	-0.00009	-0.00009	-0.00008
	(A * !B * C * D * S1 * Y)	0.00007	0.00008	0.00010
	(A * !B * C * D * S1 * Y)	0.00228	0.00233	0.00237
	(A * !B * !C * !D * S1 * !Y)	0.00090	0.00096	0.00102
	(A * !B * !C * !D * S1 * !Y)	-0.00009	-0.00008	-0.00006
	(A * !B * !C * !D * S1 * !Y)	0.00007	0.00008	0.00011
	(A * !B * !C * !D * S1 * !Y)	0.00216	0.00222	0.00227
	(!A * B * C * D * S1 * Y)	-0.00024	-0.00019	-0.00011
	(!A * B * C * D * S1 * Y)	0.00012	0.00013	0.00014
	(!A * B * C * D * S1 * Y)	-0.00012	-0.00011	-0.00009
	(!A * B * C * D * S1 * Y)	0.00213	0.00216	0.00221
	(!A * B * !C * !D * S1 * !Y)	-0.00008	-0.00004	0.00003
	(!A * B * !C * !D * S1 * !Y)	0.00011	0.00013	0.00014
	(!A * B * !C * !D * S1 * !Y)	-0.00011	-0.00010	-0.00008
	(!A * B * !C * !D * S1 * !Y)	0.00226	0.00230	0.00235
	(!A * !B * C * !D * !S1 * !Y)	0.00111	0.00117	0.00123
	(!A * !B * C * !D * !S1 * !Y)	-0.00009	-0.00008	-0.00007
	(!A * !B * C * !D * !S1 * !Y)	0.00008	0.00008	0.00009
	(!A * !B * C * !D * !S1 * !Y)	0.00226	0.00231	0.00236
	(!A * !B * !C * D * !S1 * !Y)	0.00010	0.00015	0.00021
	(!A * !B * !C * D * !S1 * !Y)	0.00012	0.00014	0.00017
	(!A * !B * !C * D * !S1 * !Y)	-0.00011	-0.00010	-0.00009
	(!A * !B * !C * D * !S1 * !Y)	0.00256	0.00262	0.00271

Passive power(pJ) for S0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

MUX4X2H7H	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	0.00154	0.00157	0.00162
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	-0.00002	-0.00002	-0.00002
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	0.00001	0.00002	0.00002
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	-0.00029	-0.00026	-0.00020
	(A * B * C * !D * !S1 * Y)	0.00207	0.00210	0.00214
	(A * B * C * !D * !S1 * Y)	0.00008	0.00009	0.00012
	(A * B * C * !D * !S1 * Y)	-0.00008	-0.00007	-0.00007
	(A * B * C * !D * !S1 * Y)	0.00091	0.00094	0.00098
	(A * B * !C * D * !S1 * Y)	0.00240	0.00245	0.00252
	(A * B * !C * D * !S1 * Y)	-0.00014	-0.00013	-0.00013
	(A * B * !C * D * !S1 * Y)	0.00009	0.00011	0.00013
	(A * B * !C * D * !S1 * Y)	-0.00009	-0.00004	0.00005
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	0.00151	0.00153	0.00158
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	-0.00002	-0.00002	0.00001
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	0.00000	0.00002	0.00003
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	-0.00030	-0.00028	-0.00021
	(A * !B * C * D * S1 * Y)	0.00184	0.00188	0.00194
	(A * !B * C * D * S1 * Y)	0.00008	0.00009	0.00009
	(A * !B * C * D * S1 * Y)	-0.00010	-0.00008	-0.00007
	(A * !B * C * D * S1 * Y)	0.00056	0.00061	0.00069
	(A * !B * !C * !D * S1 * !Y)	0.00193	0.00197	0.00202
	(A * !B * !C * !D * S1 * !Y)	0.00006	0.00008	0.00010
	(A * !B * !C * !D * S1 * !Y)	-0.00008	-0.00008	-0.00006
	(A * !B * !C * !D * S1 * !Y)	0.00067	0.00071	0.00075
	(!A * B * C * D * S1 * Y)	0.00222	0.00227	0.00232
	(!A * B * C * D * S1 * Y)	-0.00013	-0.00013	-0.00012
	(!A * B * C * D * S1 * Y)	0.00010	0.00011	0.00012
	(!A * B * C * D * S1 * Y)	-0.00015	-0.00009	-0.00002
	(!A * B * !C * !D * S1 * !Y)	0.00205	0.00210	0.00216
	(!A * B * !C * !D * S1 * !Y)	-0.00013	-0.00013	-0.00010
	(!A * B * !C * !D * S1 * !Y)	0.00010	0.00011	0.00011
	(!A * B * !C * !D * S1 * !Y)	-0.00029	-0.00024	-0.00015
	(!A * !B * C * !D * !S1 * !Y)	0.00220	0.00223	0.00228
	(!A * !B * C * !D * !S1 * !Y)	0.00007	0.00008	0.00009
	(!A * !B * C * !D * !S1 * !Y)	-0.00008	-0.00008	-0.00008
	(!A * !B * C * !D * !S1 * !Y)	0.00106	0.00109	0.00113
	(!A * !B * !C * D * !S1 * !Y)	0.00222	0.00226	0.00232
	(!A * !B * !C * D * !S1 * !Y)	-0.00013	-0.00013	-0.00010
	(!A * !B * !C * D * !S1 * !Y)	0.00011	0.00011	0.00012
	(!A * !B * !C * D * !S1 * !Y)	-0.00025	-0.00020	-0.00013

Passive power(pJ) for S1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X2H7H	(B * D * S0 * Y)	-0.00015	-0.00013	-0.00011
	(B * D * S0 * Y)	0.00002	0.00002	0.00004
	(B * D * S0 * Y)	-0.00002	-0.00002	-0.00001
	(B * D * S0 * Y)	0.00104	0.00106	0.00108
	(A * C * !S0 * Y)	-0.00015	-0.00012	-0.00008
	(A * C * !S0 * Y)	0.00000	0.00002	0.00002
	(A * C * !S0 * Y)	-0.00003	-0.00002	-0.00000
	(A * C * !S0 * Y)	0.00104	0.00106	0.00109
	(!B * !D * S0 * !Y)	-0.00003	-0.00001	0.00002
	(!B * !D * S0 * !Y)	0.00001	0.00002	0.00002
	(!B * !D * S0 * !Y)	-0.00004	-0.00002	-0.00002
	(!B * !D * S0 * !Y)	0.00114	0.00117	0.00121
	(!A * !C * !S0 * !Y)	-0.00004	-0.00001	0.00002
	(!A * !C * !S0 * !Y)	0.00002	0.00002	0.00003
	(!A * !C * !S0 * !Y)	-0.00002	-0.00002	-0.00000
	(!A * !C * !S0 * !Y)	0.00115	0.00117	0.00122

Passive power(pJ) for S1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X2H7H	(B * D * S0 * Y)	0.00102	0.00104	0.00107
	(B * D * S0 * Y)	-0.00002	-0.00002	0.00000
	(B * D * S0 * Y)	0.00001	0.00002	0.00002
	(B * D * S0 * Y)	-0.00016	-0.00014	-0.00010
	(A * C * !S0 * Y)	0.00102	0.00105	0.00108
	(A * C * !S0 * Y)	-0.00002	-0.00002	0.00000
	(A * C * !S0 * Y)	0.00000	0.00002	0.00003
	(A * C * !S0 * Y)	-0.00016	-0.00014	-0.00010
	(!B * !D * S0 * !Y)	0.00090	0.00093	0.00096
	(!B * !D * S0 * !Y)	-0.00002	-0.00002	-0.00001
	(!B * !D * S0 * !Y)	0.00002	0.00002	0.00004
	(!B * !D * S0 * !Y)	-0.00028	-0.00026	-0.00023
	(!A * !C * !S0 * !Y)	0.00090	0.00092	0.00095
	(!A * !C * !S0 * !Y)	-0.00003	-0.00002	-0.00001
	(!A * !C * !S0 * !Y)	0.00000	0.00002	0.00002
	(!A * !C * !S0 * !Y)	-0.00028	-0.00025	-0.00021

MUX4X3H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

MUX4, In: A, B, C, D, S0, S1, Out: Y

Truth Table

INPUT						OUTPUT
A	B	C	D	S0	S1	Y
0	0	0	0	x	x	0
0	x	0	1	0	x	0
x	0	x	1	1	0	0
x	x	x	1	1	1	1
0	0	1	x	x	0	0
0	x	1	x	0	1	1
0	x	1	0	1	1	0
0	1	0	x	0	x	0
0	1	x	x	1	0	1
0	1	x	0	1	1	0
0	1	1	x	0	0	0
1	0	0	x	0	0	1
1	x	0	0	x	1	0
1	0	x	0	1	x	0
1	x	0	1	0	1	0
1	x	1	x	0	x	1
1	1	0	x	x	0	1
1	1	1	x	1	0	1
1	1	1	0	1	1	0

Footprint

Cell Name	Area
MUX4X3H7H	7.00000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A	B	C	D	S0	S1	Y
MUX4X3H7H	0.00089	0.00084	0.00080	0.00085	0.00344	0.00199	0.08606

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
MUX4X3H7H	0.00000	0.07076	0.08028

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
MUX4X3H7H	A->Y (RR)	0.14005	0.33286	0.79816
	B->Y (RR)	0.13599	0.32992	0.79670
	C->Y (RR)	0.14597	0.34131	0.81337
	D->Y (RR)	0.14476	0.34092	0.81462
	S0->Y (-R)	0.18694	0.38092	0.83188
	S1->Y (-R)	0.11374	0.30089	0.72928

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
MUX4X3H7H	A->Y (FF)	0.18612	0.36056	0.76246
	B->Y (FF)	0.18590	0.36044	0.76205
	C->Y (FF)	0.20042	0.37745	0.78501
	D->Y (FF)	0.20457	0.38132	0.78855
	S0->Y (-F)	0.19347	0.36777	0.77355
	S1->Y (-F)	0.11142	0.27466	0.64553

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
MUX4X3H7H	A	0.00159	0.00166	0.00177
	A	0.00018	0.00018	0.00019
	A	-0.00016	-0.00015	-0.00013
	A	0.00308	0.00316	0.00327
	B	0.00131	0.00138	0.00147
	B	0.00018	0.00018	0.00019
	B	-0.00016	-0.00015	-0.00015
	B	0.00281	0.00288	0.00298
	C	0.00124	0.00131	0.00140
	C	0.00018	0.00018	0.00018
	C	-0.00016	-0.00015	-0.00015
	C	0.00278	0.00285	0.00295
	D	0.00096	0.00103	0.00113
	D	0.00018	0.00018	0.00018
	D	-0.00016	-0.00015	-0.00013
	D	0.00256	0.00264	0.00273
	S0	0.00458	0.00472	0.00489
	S0	0.00025	0.00026	0.00082
	S0	-0.00002	-0.00000	0.00010
	S0	0.00413	0.00435	0.00969
	S1	0.00255	0.00267	0.00287
	S1	0.00002	0.00004	0.00005
	S1	0.00001	0.00001	0.00002
	S1	0.00239	0.00252	0.00264

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
MUX4X3H7H	A	0.00278	0.00286	0.00295
	A	-0.00019	-0.00018	-0.00017
	A	0.00013	0.00015	0.00018
	A	0.00128	0.00135	0.00145
	B	0.00305	0.00312	0.00321
	B	-0.00019	-0.00018	-0.00017
	B	0.00015	0.00015	0.00017
	B	0.00156	0.00163	0.00172
	C	0.00344	0.00350	0.00359
	C	-0.00018	-0.00018	-0.00018
	C	0.00015	0.00015	0.00017
	C	0.00189	0.00194	0.00204
	D	0.00375	0.00381	0.00391
	D	-0.00018	-0.00018	-0.00018
	D	0.00013	0.00015	0.00016
	D	0.00215	0.00222	0.00231
	S0	0.00522	0.00535	0.00554
	S0	0.00001	0.00004	0.00009
	S0	0.00033	0.00033	0.00033
	S0	0.00492	0.00506	0.00522
	S1	0.00255	0.00266	0.00279
	S1	-0.00000	0.00000	0.00002
	S1	0.00002	0.00003	0.00006
	S1	0.00295	0.00306	0.00324

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X3H7H	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00017	0.00019	0.00022
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00015	0.00016	0.00017
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	-0.00015	-0.00014	-0.00014
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00138	0.00141	0.00143
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00011	-0.00010	-0.00008
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00002	-0.00002	-0.00002
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00001	0.00002	0.00002
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00031	0.00032	0.00032

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X3H7H	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00128	0.00130	0.00133
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	-0.00017	-0.00016	-0.00015
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00014	0.00014	0.00016
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00005	0.00007	0.00008
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00011	0.00011	0.00011
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00002	0.00002	0.00002
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00002	-0.00002	-0.00001
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00032	-0.00031	-0.00030

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X3H7H	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	-0.00010	-0.00009	-0.00007
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	0.00016	0.00016	0.00016
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	-0.00015	-0.00014	-0.00013
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	0.00112	0.00113	0.00114
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00017	-0.00016	-0.00015
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00002	-0.00002	-0.00002
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00002	0.00002	0.00002
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00023	0.00023	0.00023

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X3H7H	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	0.00154	0.00156	0.00157
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	-0.00016	-0.00016	-0.00016
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	0.00014	0.00014	0.00015
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	0.00033	0.00034	0.00035
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00016	0.00017	0.00017
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00002	0.00002	0.00002
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00002	-0.00002	-0.00002
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00023	-0.00022	-0.00021

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X3H7H	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00011	-0.00010	-0.00009
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00003	-0.00003	-0.00002
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00002	0.00002	0.00002
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00024	0.00024	0.00024
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00035	0.00036	0.00037
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00016	0.00016	0.00016
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	-0.00015	-0.00014	-0.00014
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00161	0.00162	0.00164

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X3H7H	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00011	0.00011	0.00011
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00002	0.00003	0.00003
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00002	-0.00002	-0.00002
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00024	-0.00023	-0.00022
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00146	0.00147	0.00149
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	-0.00016	-0.00016	-0.00016
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00014	0.00014	0.00015
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00019	0.00020	0.00021

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X3H7H	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00007	0.00009	0.00010
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00016	0.00016	0.00017
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	-0.00015	-0.00014	-0.00014
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00139	0.00141	0.00143
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00016	-0.00015	-0.00014
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00002	-0.00002	-0.00002
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00002	0.00002	0.00002
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00023	0.00023	0.00024

Passive power(pJ) for D falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X3H7H	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00175	0.00178	0.00180
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	-0.00017	-0.00016	-0.00016
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00014	0.00014	0.00015
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00044	0.00046	0.00048
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00016	0.00016	0.00016
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00002	0.00002	0.00002
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00002	-0.00002	-0.00002
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00023	-0.00023	-0.00021

Passive power(pJ) for S0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

MUX4X3H7H	**(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)**	-0.00015	-0.00013	-0.00009
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	0.00004	0.00004	0.00004
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	-0.00003	-0.00002	-0.00001
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	0.00187	0.00190	0.00195
	(A * B * C * !D * !S1 * Y)	0.00138	0.00144	0.00151
	(A * B * C * !D * !S1 * Y)	-0.00012	-0.00011	-0.00009
	(A * B * C * !D * !S1 * Y)	0.00008	0.00009	0.00009
	(A * B * C * !D * !S1 * Y)	0.00264	0.00269	0.00275
	(A * B * !C * D * !S1 * Y)	-0.00012	-0.00006	0.00002
	(A * B * !C * D * !S1 * Y)	0.00017	0.00018	0.00018
	(A * B * !C * D * !S1 * Y)	-0.00014	-0.00014	-0.00011
	(A * B * !C * D * !S1 * Y)	0.00265	0.00270	0.00277
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	-0.00012	-0.00009	-0.00005
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	0.00002	0.00003	0.00003
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	-0.00002	-0.00001	-0.00000
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	0.00187	0.00189	0.00192
	(A * !B * C * D * S1 * Y)	0.00117	0.00124	0.00131
	(A * !B * C * D * S1 * Y)	-0.00011	-0.00010	-0.00009
	(A * !B * C * D * S1 * Y)	0.00009	0.00010	0.00014
	(A * !B * C * D * S1 * Y)	0.00255	0.00261	0.00266
	(A * !B * !C * !D * S1 * !Y)	0.00107	0.00114	0.00121
	(A * !B * !C * !D * S1 * !Y)	-0.00012	-0.00011	-0.00009
	(A * !B * !C * !D * S1 * !Y)	0.00007	0.00010	0.00013
	(A * !B * !C * !D * S1 * !Y)	0.00241	0.00247	0.00254
	(!A * B * C * D * S1 * Y)	-0.00029	-0.00024	-0.00018
	(!A * B * C * D * S1 * Y)	0.00018	0.00018	0.00019
	(!A * B * C * D * S1 * Y)	-0.00015	-0.00014	-0.00012
	(!A * B * C * D * S1 * Y)	0.00237	0.00243	0.00252
	(!A * B * !C * !D * S1 * !Y)	-0.00011	-0.00006	0.00001
	(!A * B * !C * !D * S1 * !Y)	0.00015	0.00017	0.00018
	(!A * B * !C * !D * S1 * !Y)	-0.00014	-0.00014	-0.00011
	(!A * B * !C * !D * S1 * !Y)	0.00250	0.00255	0.00261
	(!A * !B * C * !D * !S1 * !Y)	0.00125	0.00131	0.00137
	(!A * !B * C * !D * !S1 * !Y)	-0.00012	-0.00010	-0.00008
	(!A * !B * C * !D * !S1 * !Y)	0.00009	0.00011	0.00013
	(!A * !B * C * !D * !S1 * !Y)	0.00249	0.00253	0.00258
	(!A * !B * !C * D * !S1 * !Y)	0.00008	0.00015	0.00023
	(!A * !B * !C * D * !S1 * !Y)	0.00014	0.00017	0.00018
	(!A * !B * !C * D * !S1 * !Y)	-0.00015	-0.00014	-0.00013
	(!A * !B * !C * D * !S1 * !Y)	0.00283	0.00289	0.00297

Passive power(pJ) for S0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

MUX4X3H7H	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	0.00171	0.00174	0.00178
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	-0.00004	-0.00003	-0.00003
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	0.00001	0.00002	0.00003
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	-0.00031	-0.00028	-0.00023
	(A * B * C * !D * !S1 * Y)	0.00228	0.00232	0.00238
	(A * B * C * !D * !S1 * Y)	0.00009	0.00011	0.00012
	(A * B * C * !D * !S1 * Y)	-0.00009	-0.00009	-0.00008
	(A * B * C * !D * !S1 * Y)	0.00103	0.00107	0.00111
	(A * B * !C * D * !S1 * Y)	0.00268	0.00274	0.00284
	(A * B * !C * D * !S1 * Y)	-0.00018	-0.00018	-0.00017
	(A * B * !C * D * !S1 * Y)	0.00014	0.00014	0.00015
	(A * B * !C * D * !S1 * Y)	-0.00009	-0.00003	0.00004
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	0.00169	0.00172	0.00177
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	-0.00003	-0.00002	-0.00002
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	0.00001	0.00002	0.00003
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	-0.00029	-0.00026	-0.00023
	(A * !B * C * D * S1 * Y)	0.00208	0.00212	0.00217
	(A * !B * C * D * S1 * Y)	0.00009	0.00011	0.00011
	(A * !B * C * D * S1 * Y)	-0.00010	-0.00010	-0.00009
	(A * !B * C * D * S1 * Y)	0.00071	0.00075	0.00080
	(A * !B * !C * !D * S1 * !Y)	0.00220	0.00224	0.00229
	(A * !B * !C * !D * S1 * !Y)	0.00009	0.00011	0.00013
	(A * !B * !C * !D * S1 * !Y)	-0.00010	-0.00010	-0.00007
	(A * !B * !C * !D * S1 * !Y)	0.00086	0.00090	0.00096
	(!A * B * C * D * S1 * Y)	0.00247	0.00252	0.00258
	(!A * B * C * D * S1 * Y)	-0.00018	-0.00018	-0.00017
	(!A * B * C * D * S1 * Y)	0.00012	0.00014	0.00016
	(!A * B * C * D * S1 * Y)	-0.00019	-0.00014	-0.00006
	(!A * B * !C * !D * S1 * !Y)	0.00231	0.00235	0.00242
	(!A * B * !C * !D * S1 * !Y)	-0.00017	-0.00016	-0.00013
	(!A * B * !C * !D * S1 * !Y)	0.00012	0.00014	0.00014
	(!A * B * !C * !D * S1 * !Y)	-0.00032	-0.00026	-0.00015
	(!A * !B * C * !D * !S1 * !Y)	0.00240	0.00244	0.00249
	(!A * !B * C * !D * !S1 * !Y)	0.00008	0.00010	0.00012
	(!A * !B * C * !D * !S1 * !Y)	-0.00012	-0.00010	-0.00009
	(!A * !B * C * !D * !S1 * !Y)	0.00117	0.00120	0.00124
	(!A * !B * !C * D * !S1 * !Y)	0.00247	0.00252	0.00258
	(!A * !B * !C * D * !S1 * !Y)	-0.00018	-0.00017	-0.00014
	(!A * !B * !C * D * !S1 * !Y)	0.00014	0.00015	0.00016
	(!A * !B * !C * D * !S1 * !Y)	-0.00029	-0.00023	-0.00016

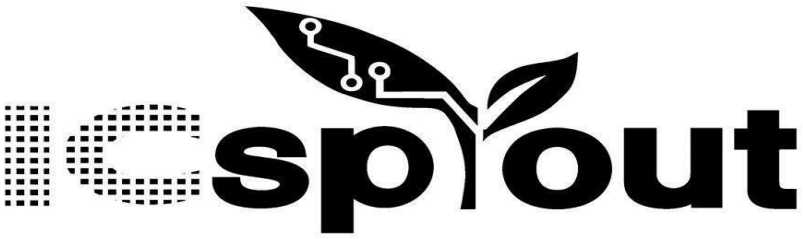
Passive power(pJ) for S1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X3H7H	(B * D * S0 * Y)	-0.00015	-0.00012	-0.00009
	(B * D * S0 * Y)	0.00001	0.00002	0.00002
	(B * D * S0 * Y)	-0.00004	-0.00002	-0.00001
	(B * D * S0 * Y)	0.00109	0.00112	0.00116
	(A * C * !S0 * Y)	-0.00015	-0.00013	-0.00009
	(A * C * !S0 * Y)	0.00002	0.00002	0.00002
	(A * C * !S0 * Y)	-0.00003	-0.00002	-0.00001
	(A * C * !S0 * Y)	0.00109	0.00111	0.00113
	(!B * !D * S0 * !Y)	-0.00003	-0.00001	0.00002
	(!B * !D * S0 * !Y)	0.00001	0.00002	0.00002
	(!B * !D * S0 * !Y)	-0.00002	-0.00002	-0.00000
	(!B * !D * S0 * !Y)	0.00121	0.00123	0.00127
	(!A * !C * !S0 * !Y)	-0.00003	-0.00000	0.00004
	(!A * !C * !S0 * !Y)	0.00000	0.00002	0.00002
	(!A * !C * !S0 * !Y)	-0.00002	-0.00002	-0.00000
	(!A * !C * !S0 * !Y)	0.00121	0.00123	0.00124

Passive power(pJ) for S1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X3H7H	(B * D * S0 * Y)	0.00108	0.00111	0.00113
	(B * D * S0 * Y)	-0.00002	-0.00002	-0.00001
	(B * D * S0 * Y)	0.00002	0.00003	0.00004
	(B * D * S0 * Y)	-0.00016	-0.00014	-0.00011
	(A * C * !S0 * Y)	0.00108	0.00111	0.00113
	(A * C * !S0 * Y)	-0.00002	-0.00002	-0.00001
	(A * C * !S0 * Y)	0.00002	0.00003	0.00004
	(A * C * !S0 * Y)	-0.00016	-0.00014	-0.00011
	(!B * !D * S0 * !Y)	0.00096	0.00098	0.00102
	(!B * !D * S0 * !Y)	-0.00002	-0.00002	-0.00001
	(!B * !D * S0 * !Y)	0.00000	0.00002	0.00002
	(!B * !D * S0 * !Y)	-0.00028	-0.00026	-0.00021
	(!A * !C * !S0 * !Y)	0.00096	0.00098	0.00103
	(!A * !C * !S0 * !Y)	-0.00002	-0.00002	0.00000
	(!A * !C * !S0 * !Y)	0.00001	0.00002	0.00002
	(!A * !C * !S0 * !Y)	-0.00028	-0.00026	-0.00022

MUX4X4H7H



tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

MUX4, In: A, B, C, D, S0, S1, Out: Y

Truth Table

INPUT						OUTPUT
A	B	C	D	S0	S1	Y
0	0	0	0	x	x	0
0	x	0	1	0	x	0
x	0	x	1	1	0	0
x	x	x	1	1	1	1
0	0	1	x	x	0	0
0	x	1	x	0	1	1
0	x	1	0	1	1	0
0	1	0	x	0	x	0
0	1	x	x	1	0	1
0	1	x	0	1	1	0
0	1	1	x	0	0	0
1	0	0	x	0	0	1
1	x	0	0	x	1	0
1	0	x	0	1	x	0
1	x	0	1	0	1	0
1	x	1	x	0	x	1
1	1	0	x	x	0	1
1	1	1	x	1	0	1
1	1	1	0	1	1	0

Footprint

Cell Name	Area
MUX4X4H7H	8.40000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A	B	C	D	S0	S1	Y
MUX4X4H7H	0.00099	0.00091	0.00095	0.00094	0.00455	0.00220	0.11520

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
MUX4X4H7H	0.00000	0.09712	0.11609

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
MUX4X4H7H	A->Y (RR)	0.14549	0.34186	0.81331
	B->Y (RR)	0.14185	0.33938	0.81219
	C->Y (RR)	0.15923	0.35914	0.84063
	D->Y (RR)	0.15555	0.35642	0.83954
	S0->Y (-R)	0.20111	0.39716	0.84902
	S1->Y (-R)	0.12369	0.31490	0.75108

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
MUX4X4H7H	A->Y (FF)	0.19166	0.36833	0.77081
	B->Y (FF)	0.19119	0.36828	0.77133
	C->Y (FF)	0.21424	0.39423	0.80593
	D->Y (FF)	0.21621	0.39583	0.80676
	S0->Y (-F)	0.20395	0.38096	0.79039
	S1->Y (-F)	0.12048	0.28726	0.66494

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
MUX4X4H7H	A	0.00205	0.00215	0.00230
	A	0.00022	0.00022	0.00023
	A	-0.00019	-0.00018	-0.00018
	A	0.00386	0.00396	0.00410
	B	0.00180	0.00190	0.00203
	B	0.00022	0.00022	0.00025
	B	-0.00019	-0.00018	-0.00016
	B	0.00360	0.00369	0.00382
	C	0.00180	0.00188	0.00202
	C	0.00023	0.00023	0.00023
	C	-0.00019	-0.00017	-0.00013
	C	0.00363	0.00372	0.00385
	D	0.00137	0.00146	0.00159
	D	0.00020	0.00023	0.00023
	D	-0.00019	-0.00018	-0.00014
	D	0.00323	0.00333	0.00346
	S0	0.00577	0.00597	0.00622
	S0	0.00042	0.00042	0.00049
	S0	0.00004	0.00006	0.00010
	S0	0.00655	0.00679	0.00708
	S1	0.00324	0.00338	0.00361
	S1	0.00004	0.00005	0.00007
	S1	0.00000	0.00002	0.00003
	S1	0.00298	0.00314	0.00331

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
MUX4X4H7H	A	0.00358	0.00367	0.00380
	A	-0.00023	-0.00022	-0.00022
	A	0.00018	0.00018	0.00020
	A	0.00176	0.00186	0.00199
	B	0.00383	0.00392	0.00404
	B	-0.00023	-0.00022	-0.00022
	B	0.00016	0.00018	0.00022
	B	0.00205	0.00213	0.00226
	C	0.00447	0.00455	0.00467
	C	-0.00023	-0.00023	-0.00020
	C	0.00013	0.00018	0.00022
	C	0.00263	0.00270	0.00283
	D	0.00488	0.00496	0.00509
	D	-0.00023	-0.00023	-0.00020
	D	0.00014	0.00018	0.00021
	D	0.00302	0.00311	0.00323
	S0	0.00671	0.00689	0.00717
	S0	0.00001	0.00006	0.00017
	S0	0.00025	0.00033	0.00041
	S0	0.00648	0.00669	0.00695
	S1	0.00311	0.00326	0.00343
	S1	0.00000	0.00001	0.00002
	S1	0.00001	0.00003	0.00004
	S1	0.00367	0.00382	0.00404

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X4H7H	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00011	0.00014	0.00016
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00019	0.00020	0.00020
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	-0.00017	-0.00017	-0.00017
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00158	0.00161	0.00164
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00013	-0.00012	-0.00010
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00003	-0.00003	-0.00003
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00001	0.00002	0.00002
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00033	0.00033	0.00034

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X4H7H	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00156	0.00158	0.00162
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	-0.00020	-0.00020	-0.00019
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00017	0.00017	0.00017
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00008	0.00010	0.00013
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00013	0.00013	0.00014
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00003	0.00003	0.00003
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00002	-0.00002	-0.00001
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00033	-0.00032	-0.00031

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X4H7H	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	-0.00012	-0.00011	-0.00010
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	0.00020	0.00020	0.00021
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	-0.00017	-0.00017	-0.00017
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	0.00133	0.00135	0.00137
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00016	-0.00015	-0.00014
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00003	-0.00003	-0.00003
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00002	0.00002	0.00002
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00026	0.00026	0.00026

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X4H7H	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	0.00180	0.00182	0.00184
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	-0.00021	-0.00020	-0.00019
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	0.00017	0.00017	0.00018
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	0.00036	0.00037	0.00039
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00016	0.00016	0.00016
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00003	0.00003	0.00003
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00002	-0.00002	-0.00002
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00026	-0.00025	-0.00024

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X4H7H	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00013	-0.00012	-0.00010
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00003	-0.00003	-0.00003
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00001	0.00002	0.00002
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00029	0.00029	0.00029
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00045	0.00047	0.00048
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00020	0.00020	0.00020
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	-0.00017	-0.00017	-0.00017
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00195	0.00197	0.00198

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X4H7H	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00013	0.00013	0.00013
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00003	0.00003	0.00003
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00002	-0.00002	-0.00001
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00029	-0.00028	-0.00027
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00191	0.00193	0.00195
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	-0.00020	-0.00020	-0.00019
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00017	0.00017	0.00017
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00041	0.00042	0.00044

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X4H7H	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00004	0.00005	0.00007
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00020	0.00020	0.00021
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	-0.00017	-0.00017	-0.00017
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00156	0.00158	0.00160
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00020	-0.00019	-0.00017
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00003	-0.00003	-0.00003
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00001	0.00002	0.00002
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00024	0.00024	0.00024

Passive power(pJ) for D falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X4H7H	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00231	0.00234	0.00236
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	-0.00021	-0.00020	-0.00019
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00017	0.00017	0.00017
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00080	0.00081	0.00084
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00019	0.00019	0.00020
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00003	0.00003	0.00003
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00002	-0.00002	-0.00001
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00024	-0.00023	-0.00021

Passive power(pJ) for S0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

MUX4X4H7H	**(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)**	-0.00026	-0.00020	-0.00014
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	0.00004	0.00004	0.00006
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	-0.00003	-0.00002	0.00000
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	0.00230	0.00235	0.00246
	(A * B * C * !D * !S1 * Y)	0.00182	0.00195	0.00207
	(A * B * C * !D * !S1 * Y)	-0.00015	-0.00014	-0.00013
	(A * B * C * !D * !S1 * Y)	0.00011	0.00012	0.00015
	(A * B * C * !D * !S1 * Y)	0.00351	0.00362	0.00372
	(A * B * !C * D * !S1 * Y)	-0.00030	-0.00020	-0.00004
	(A * B * !C * D * !S1 * Y)	0.00019	0.00022	0.00023
	(A * B * !C * D * !S1 * Y)	-0.00019	-0.00018	-0.00015
	(A * B * !C * D * !S1 * Y)	0.00317	0.00326	0.00338
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	-0.00023	-0.00017	-0.00010
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	0.00004	0.00005	0.00007
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	-0.00003	-0.00003	-0.00002
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	0.00233	0.00238	0.00246
	(A * !B * C * D * S1 * Y)	0.00123	0.00135	0.00149
	(A * !B * C * D * S1 * Y)	-0.00015	-0.00014	-0.00013
	(A * !B * C * D * S1 * Y)	0.00010	0.00013	0.00017
	(A * !B * C * D * S1 * Y)	0.00295	0.00304	0.00313
	(A * !B * !C * !D * S1 * !Y)	0.00109	0.00121	0.00132
	(A * !B * !C * !D * S1 * !Y)	-0.00014	-0.00013	-0.00009
	(A * !B * !C * !D * S1 * !Y)	0.00010	0.00012	0.00014
	(A * !B * !C * !D * S1 * !Y)	0.00281	0.00292	0.00307
	(!A * B * C * D * S1 * Y)	-0.00044	-0.00036	-0.00025
	(!A * B * C * D * S1 * Y)	0.00021	0.00022	0.00026
	(!A * B * C * D * S1 * Y)	-0.00018	-0.00017	-0.00015
	(!A * B * C * D * S1 * Y)	0.00296	0.00303	0.00314
	(!A * B * !C * !D * S1 * !Y)	-0.00024	-0.00016	-0.00003
	(!A * B * !C * !D * S1 * !Y)	0.00021	0.00022	0.00023
	(!A * B * !C * !D * S1 * !Y)	-0.00020	-0.00018	-0.00017
	(!A * B * !C * !D * S1 * !Y)	0.00315	0.00323	0.00338
	(!A * !B * C * !D * !S1 * !Y)	0.00158	0.00171	0.00183
	(!A * !B * C * !D * !S1 * !Y)	-0.00014	-0.00014	-0.00013
	(!A * !B * C * !D * !S1 * !Y)	0.00012	0.00013	0.00016
	(!A * !B * C * !D * !S1 * !Y)	0.00322	0.00333	0.00343
	(!A * !B * !C * D * !S1 * !Y)	-0.00016	-0.00007	0.00006
	(!A * !B * !C * D * !S1 * !Y)	0.00017	0.00021	0.00023
	(!A * !B * !C * D * !S1 * !Y)	-0.00018	-0.00017	-0.00015
	(!A * !B * !C * D * !S1 * !Y)	0.00326	0.00336	0.00348

Passive power(pJ) for S0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

MUX4X4H7H	**(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)**	0.00207	0.00211	0.00218
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	-0.00004	-0.00003	-0.00003
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	0.00000	0.00002	0.00004
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	-0.00049	-0.00044	-0.00035
	(A * B * C * !D * !S1 * Y)	0.00280	0.00287	0.00296
	(A * B * C * !D * !S1 * Y)	0.00013	0.00014	0.00015
	(A * B * C * !D * !S1 * Y)	-0.00012	-0.00011	-0.00011
	(A * B * C * !D * !S1 * Y)	0.00113	0.00121	0.00130
	(A * B * !C * D * !S1 * Y)	0.00333	0.00342	0.00354
	(A * B * !C * D * !S1 * Y)	-0.00022	-0.00021	-0.00019
	(A * B * !C * D * !S1 * Y)	0.00015	0.00018	0.00020
	(A * B * !C * D * !S1 * Y)	-0.00013	-0.00005	0.00010
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	0.00203	0.00207	0.00216
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	-0.00006	-0.00004	-0.00002
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	0.00002	0.00004	0.00007
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	-0.00053	-0.00048	-0.00040
	(A * !B * C * D * S1 * Y)	0.00245	0.00253	0.00262
	(A * !B * C * D * S1 * Y)	0.00013	0.00014	0.00015
	(A * !B * C * D * S1 * Y)	-0.00012	-0.00011	-0.00010
	(A * !B * C * D * S1 * Y)	0.00075	0.00083	0.00093
	(A * !B * !C * !D * S1 * !Y)	0.00258	0.00265	0.00275
	(A * !B * !C * !D * S1 * !Y)	0.00009	0.00013	0.00017
	(A * !B * !C * !D * S1 * !Y)	-0.00012	-0.00011	-0.00010
	(A * !B * !C * !D * S1 * !Y)	0.00087	0.00095	0.00105
	(!A * B * C * D * S1 * Y)	0.00313	0.00320	0.00332
	(!A * B * C * D * S1 * Y)	-0.00021	-0.00021	-0.00020
	(!A * B * C * D * S1 * Y)	0.00017	0.00018	0.00019
	(!A * B * C * D * S1 * Y)	-0.00026	-0.00019	-0.00008
	(!A * B * !C * !D * S1 * !Y)	0.00292	0.00298	0.00310
	(!A * B * !C * !D * S1 * !Y)	-0.00022	-0.00021	-0.00018
	(!A * B * !C * !D * S1 * !Y)	0.00018	0.00019	0.00020
	(!A * B * !C * !D * S1 * !Y)	-0.00048	-0.00039	-0.00025
	(!A * !B * C * !D * !S1 * !Y)	0.00307	0.00313	0.00320
	(!A * !B * C * !D * !S1 * !Y)	0.00014	0.00015	0.00018
	(!A * !B * C * !D * !S1 * !Y)	-0.00013	-0.00012	-0.00012
	(!A * !B * C * !D * !S1 * !Y)	0.00142	0.00150	0.00158
	(!A * !B * !C * D * !S1 * !Y)	0.00321	0.00329	0.00343
	(!A * !B * !C * D * !S1 * !Y)	-0.00023	-0.00021	-0.00017
	(!A * !B * !C * D * !S1 * !Y)	0.00015	0.00018	0.00018
	(!A * !B * !C * D * !S1 * !Y)	-0.00022	-0.00014	0.00003

Passive power(pJ) for S1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X4H7H	(B * D * S0 * Y)	-0.00013	-0.00011	-0.00008
	(B * D * S0 * Y)	0.00003	0.00003	0.00003
	(B * D * S0 * Y)	-0.00003	-0.00002	-0.00000
	(B * D * S0 * Y)	0.00121	0.00124	0.00128
	(A * C * !S0 * Y)	-0.00013	-0.00011	-0.00009
	(A * C * !S0 * Y)	0.00002	0.00003	0.00005
	(A * C * !S0 * Y)	-0.00003	-0.00002	-0.00002
	(A * C * !S0 * Y)	0.00121	0.00124	0.00128
	(!B * !D * S0 * !Y)	-0.00002	0.00001	0.00004
	(!B * !D * S0 * !Y)	0.00002	0.00003	0.00004
	(!B * !D * S0 * !Y)	-0.00002	-0.00002	0.00000
	(!B * !D * S0 * !Y)	0.00132	0.00135	0.00137
	(!A * !C * !S0 * !Y)	-0.00002	0.00001	0.00004
	(!A * !C * !S0 * !Y)	0.00001	0.00002	0.00003
	(!A * !C * !S0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A * !C * !S0 * !Y)	0.00133	0.00135	0.00140

Passive power(pJ) for S1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X4H7H	(B * D * S0 * Y)	0.00115	0.00118	0.00120
	(B * D * S0 * Y)	-0.00003	-0.00002	-0.00000
	(B * D * S0 * Y)	0.00000	0.00002	0.00003
	(B * D * S0 * Y)	-0.00019	-0.00016	-0.00011
	(A * C * !S0 * Y)	0.00115	0.00118	0.00122
	(A * C * !S0 * Y)	-0.00005	-0.00003	-0.00002
	(A * C * !S0 * Y)	0.00002	0.00002	0.00003
	(A * C * !S0 * Y)	-0.00019	-0.00017	-0.00014
	(!B * !D * S0 * !Y)	0.00104	0.00106	0.00108
	(!B * !D * S0 * !Y)	-0.00004	-0.00002	-0.00001
	(!B * !D * S0 * !Y)	0.00002	0.00003	0.00003
	(!B * !D * S0 * !Y)	-0.00031	-0.00028	-0.00025
	(!A * !C * !S0 * !Y)	0.00104	0.00106	0.00110
	(!A * !C * !S0 * !Y)	-0.00003	-0.00002	-0.00001
	(!A * !C * !S0 * !Y)	0.00002	0.00002	0.00002
	(!A * !C * !S0 * !Y)	-0.00031	-0.00028	-0.00025

MUX4X6H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

MUX4, In: A, B, C, D, S0, S1, Out: Y

Truth Table

INPUT						OUTPUT
A	B	C	D	S0	S1	Y
0	0	0	0	x	x	0
0	x	0	1	0	x	0
x	0	x	1	1	0	0
x	x	x	1	1	1	1
0	0	1	x	x	0	0
0	x	1	x	0	1	1
0	x	1	0	1	1	0
0	1	0	x	0	x	0
0	1	x	x	1	0	1
0	1	x	0	1	1	0
0	1	1	x	0	0	0
1	0	0	x	0	0	1
1	x	0	0	x	1	0
1	0	x	0	1	x	0
1	x	0	1	0	1	0
1	x	1	x	0	x	1
1	1	0	x	x	0	1
1	1	1	x	1	0	1
1	1	1	0	1	1	0

Footprint

Cell Name	Area
MUX4X6H7H	9.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A	B	C	D	S0	S1	Y
MUX4X6H7H	0.00111	0.00102	0.00101	0.00101	0.00508	0.00222	0.17153

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
MUX4X6H7H	0.00000	0.13217	0.16754

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
MUX4X6H7H	A->Y (RR)	0.15150	0.35158	0.82701
	B->Y (RR)	0.14802	0.34912	0.82573
	C->Y (RR)	0.16606	0.36935	0.85423
	D->Y (RR)	0.16222	0.36650	0.85297
	S0->Y (-R)	0.20789	0.40727	0.86207
	S1->Y (-R)	0.09581	0.29317	0.75250

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
MUX4X6H7H	A->Y (FF)	0.20104	0.38507	0.79788
	B->Y (FF)	0.20068	0.38502	0.79828
	C->Y (FF)	0.22305	0.40994	0.83107
	D->Y (FF)	0.22546	0.41197	0.83254
	S0->Y (-F)	0.21133	0.39522	0.81375
	S1->Y (-F)	0.13689	0.31447	0.71245

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
MUX4X6H7H	A	0.00267	0.00281	0.00301
	A	0.00021	0.00021	0.00021
	A	-0.00017	-0.00016	-0.00016
	A	0.00457	0.00471	0.00491
	B	0.00238	0.00251	0.00270
	B	0.00021	0.00021	0.00021
	B	-0.00016	-0.00016	-0.00016
	B	0.00425	0.00438	0.00457
	C	0.00250	0.00262	0.00281
	C	0.00022	0.00022	0.00022
	C	-0.00017	-0.00016	-0.00016
	C	0.00439	0.00451	0.00470
	D	0.00198	0.00210	0.00229
	D	0.00021	0.00022	0.00024
	D	-0.00018	-0.00016	-0.00016
	D	0.00390	0.00402	0.00424
	S0	0.00683	0.00707	0.00738
	S0	0.00052	0.00052	0.00054
	S0	-0.00004	0.00004	0.00021
	S0	0.00762	0.00792	0.00830
	S1	0.00385	0.00403	0.00432
	S1	0.00000	0.00001	0.00001
	S1	0.00006	0.00006	0.00010
	S1	0.00353	0.00373	0.00396

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
MUX4X6H7H	A	0.00445	0.00457	0.00475
	A	-0.00021	-0.00021	-0.00021
	A	0.00016	0.00016	0.00017
	A	0.00253	0.00265	0.00284
	B	0.00473	0.00485	0.00502
	B	-0.00021	-0.00021	-0.00020
	B	0.00016	0.00016	0.00016
	B	0.00287	0.00299	0.00316
	C	0.00534	0.00545	0.00562
	C	-0.00022	-0.00022	-0.00022
	C	0.00016	0.00016	0.00017
	C	0.00344	0.00355	0.00372
	D	0.00586	0.00597	0.00614
	D	-0.00023	-0.00022	-0.00021
	D	0.00016	0.00016	0.00019
	D	0.00395	0.00406	0.00423
	S0	0.00781	0.00803	0.00837
	S0	0.00011	0.00011	0.00013
	S0	0.00041	0.00041	0.00042
	S0	0.00779	0.00804	0.00837
	S1	0.00383	0.00401	0.00422
	S1	0.00005	0.00006	0.00007
	S1	-0.00001	-0.00001	0.00001
	S1	0.00442	0.00459	0.00491

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X6H7H	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00012	0.00015	0.00018
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00023	0.00023	0.00024
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	-0.00020	-0.00019	-0.00019
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00178	0.00182	0.00185
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00016	-0.00015	-0.00013
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00003	-0.00003	-0.00003
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00002	0.00002	0.00002
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00036	0.00036	0.00037

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X6H7H	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00175	0.00178	0.00183
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	-0.00024	-0.00023	-0.00023
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00019	0.00019	0.00020
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00008	0.00011	0.00015
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00016	0.00016	0.00016
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00003	0.00003	0.00003
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00002	-0.00002	-0.00002
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00036	-0.00035	-0.00034

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X6H7H	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	-0.00014	-0.00013	-0.00012
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	0.00023	0.00024	0.00025
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	-0.00020	-0.00019	-0.00018
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	0.00148	0.00150	0.00152
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00019	-0.00018	-0.00016
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00004	-0.00003	-0.00003
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00002	0.00002	0.00002
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00028	0.00028	0.00028

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X6H7H	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	0.00204	0.00205	0.00207
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	-0.00024	-0.00023	-0.00022
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	0.00018	0.00019	0.00020
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	0.00042	0.00043	0.00047
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00018	0.00018	0.00019
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00003	0.00003	0.00004
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00002	-0.00002	-0.00002
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00028	-0.00027	-0.00025

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X6H7H	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00016	-0.00015	-0.00012
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00003	-0.00003	-0.00003
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00002	0.00002	0.00002
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00028	0.00028	0.00029
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00053	0.00055	0.00057
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00023	0.00024	0.00024
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	-0.00020	-0.00020	-0.00019
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00218	0.00220	0.00223

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X6H7H	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00016	0.00016	0.00016
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00003	0.00003	0.00003
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00002	-0.00002	-0.00002
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00028	-0.00028	-0.00027
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00213	0.00215	0.00217
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	-0.00024	-0.00024	-0.00023
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00019	0.00020	0.00020
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00048	0.00049	0.00052

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X6H7H	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00002	0.00004	0.00006
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00023	0.00024	0.00024
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	-0.00020	-0.00019	-0.00019
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00169	0.00171	0.00173
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00022	-0.00020	-0.00018
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00004	-0.00003	-0.00003
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00002	0.00002	0.00002
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00024	0.00024	0.00024

Passive power(pJ) for D falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X6H7H	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00264	0.00267	0.00270
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	-0.00024	-0.00024	-0.00023
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00019	0.00020	0.00020
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00098	0.00100	0.00102
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00021	0.00022	0.00022
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00003	0.00003	0.00004
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00002	-0.00002	-0.00002
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00024	-0.00022	-0.00020

Passive power(pJ) for S0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

MUX4X6H7H	**(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)**	-0.00030	-0.00024	-0.00012
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	0.00001	0.00004	0.00005
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	-0.00004	-0.00003	-0.00001
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	0.00254	0.00259	0.00266
	(A * B * C * !D * !S1 * Y)	0.00208	0.00224	0.00241
	(A * B * C * !D * !S1 * Y)	-0.00016	-0.00016	-0.00014
	(A * B * C * !D * !S1 * Y)	0.00012	0.00013	0.00013
	(A * B * C * !D * !S1 * Y)	0.00397	0.00411	0.00423
	(A * B * !C * D * !S1 * Y)	-0.00036	-0.00026	-0.00013
	(A * B * !C * D * !S1 * Y)	0.00025	0.00026	0.00029
	(A * B * !C * D * !S1 * Y)	-0.00021	-0.00020	-0.00017
	(A * B * !C * D * !S1 * Y)	0.00347	0.00358	0.00372
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	-0.00021	-0.00015	-0.00006
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	0.00002	0.00005	0.00006
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	-0.00004	-0.00003	-0.00001
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	0.00263	0.00269	0.00278
	(A * !B * C * D * S1 * Y)	0.00135	0.00148	0.00160
	(A * !B * C * D * S1 * Y)	-0.00017	-0.00016	-0.00012
	(A * !B * C * D * S1 * Y)	0.00007	0.00013	0.00016
	(A * !B * C * D * S1 * Y)	0.00328	0.00340	0.00356
	(A * !B * !C * !D * S1 * !Y)	0.00125	0.00139	0.00153
	(A * !B * !C * !D * S1 * !Y)	-0.00016	-0.00016	-0.00015
	(A * !B * !C * !D * S1 * !Y)	0.00009	0.00013	0.00016
	(A * !B * !C * !D * S1 * !Y)	0.00317	0.00330	0.00347
	(!A * B * C * D * S1 * Y)	-0.00052	-0.00043	-0.00032
	(!A * B * C * D * S1 * Y)	0.00024	0.00025	0.00028
	(!A * B * C * D * S1 * Y)	-0.00022	-0.00021	-0.00019
	(!A * B * C * D * S1 * Y)	0.00325	0.00335	0.00351
	(!A * B * !C * !D * S1 * !Y)	-0.00022	-0.00013	0.00001
	(!A * B * !C * !D * S1 * !Y)	0.00023	0.00025	0.00026
	(!A * B * !C * !D * S1 * !Y)	-0.00020	-0.00020	-0.00018
	(!A * B * !C * !D * S1 * !Y)	0.00355	0.00364	0.00375
	(!A * !B * C * !D * !S1 * !Y)	0.00180	0.00196	0.00210
	(!A * !B * C * !D * !S1 * !Y)	-0.00017	-0.00016	-0.00014
	(!A * !B * C * !D * !S1 * !Y)	0.00013	0.00014	0.00016
	(!A * !B * C * !D * !S1 * !Y)	0.00366	0.00380	0.00394
	(!A * !B * !C * D * !S1 * !Y)	-0.00021	-0.00010	0.00009
	(!A * !B * !C * D * !S1 * !Y)	0.00020	0.00024	0.00026
	(!A * !B * !C * D * !S1 * !Y)	-0.00020	-0.00019	-0.00017
	(!A * !B * !C * D * !S1 * !Y)	0.00361	0.00370	0.00384

Passive power(pJ) for S0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

MUX4X6H7H	**(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)**	0.00237	0.00241	0.00250
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	-0.00004	-0.00003	-0.00001
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	0.00001	0.00004	0.00007
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	-0.00047	-0.00041	-0.00033
	(A * B * C * !D * !S1 * Y)	0.00321	0.00330	0.00340
	(A * B * C * !D * !S1 * Y)	0.00014	0.00016	0.00017
	(A * B * C * !D * !S1 * Y)	-0.00013	-0.00013	-0.00012
	(A * B * C * !D * !S1 * Y)	0.00133	0.00143	0.00154
	(A * B * !C * D * !S1 * Y)	0.00371	0.00380	0.00395
	(A * B * !C * D * !S1 * Y)	-0.00027	-0.00025	-0.00022
	(A * B * !C * D * !S1 * Y)	0.00017	0.00020	0.00021
	(A * B * !C * D * !S1 * Y)	-0.00012	-0.00003	0.00012
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	0.00227	0.00232	0.00239
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	-0.00005	-0.00004	0.00001
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	0.00002	0.00004	0.00004
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	-0.00057	-0.00051	-0.00039
	(A * !B * C * D * S1 * Y)	0.00282	0.00291	0.00303
	(A * !B * C * D * S1 * Y)	0.00012	0.00016	0.00017
	(A * !B * C * D * S1 * Y)	-0.00016	-0.00012	-0.00007
	(A * !B * C * D * S1 * Y)	0.00091	0.00100	0.00110
	(A * !B * !C * !D * S1 * !Y)	0.00292	0.00299	0.00308
	(A * !B * !C * !D * S1 * !Y)	0.00015	0.00016	0.00018
	(A * !B * !C * !D * S1 * !Y)	-0.00013	-0.00012	-0.00009
	(A * !B * !C * !D * S1 * !Y)	0.00100	0.00108	0.00116
	(!A * B * C * D * S1 * Y)	0.00354	0.00362	0.00376
	(!A * B * C * D * S1 * Y)	-0.00024	-0.00024	-0.00024
	(!A * B * C * D * S1 * Y)	0.00019	0.00021	0.00024
	(!A * B * C * D * S1 * Y)	-0.00023	-0.00014	-0.00000
	(!A * B * !C * !D * S1 * !Y)	0.00325	0.00333	0.00347
	(!A * B * !C * !D * S1 * !Y)	-0.00026	-0.00025	-0.00023
	(!A * B * !C * !D * S1 * !Y)	0.00019	0.00020	0.00021
	(!A * B * !C * !D * S1 * !Y)	-0.00053	-0.00045	-0.00035
	(!A * !B * C * !D * !S1 * !Y)	0.00352	0.00360	0.00369
	(!A * !B * C * !D * !S1 * !Y)	0.00014	0.00016	0.00018
	(!A * !B * C * !D * !S1 * !Y)	-0.00016	-0.00014	-0.00013
	(!A * !B * C * !D * !S1 * !Y)	0.00166	0.00176	0.00186
	(!A * !B * !C * D * !S1 * !Y)	0.00357	0.00365	0.00379
	(!A * !B * !C * D * !S1 * !Y)	-0.00025	-0.00024	-0.00020
	(!A * !B * !C * D * !S1 * !Y)	0.00017	0.00020	0.00022
	(!A * !B * !C * D * !S1 * !Y)	-0.00025	-0.00016	-0.00000

Passive power(pJ) for S1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X6H7H	(B * D * S0 * Y)	-0.00015	-0.00013	-0.00010
	(B * D * S0 * Y)	0.00002	0.00003	0.00003
	(B * D * S0 * Y)	-0.00004	-0.00003	-0.00002
	(B * D * S0 * Y)	0.00123	0.00126	0.00130
	(A * C * !S0 * Y)	-0.00015	-0.00013	-0.00009
	(A * C * !S0 * Y)	0.00002	0.00003	0.00003
	(A * C * !S0 * Y)	-0.00003	-0.00002	-0.00000
	(A * C * !S0 * Y)	0.00123	0.00125	0.00127
	(!B * !D * S0 * !Y)	-0.00005	-0.00002	0.00003
	(!B * !D * S0 * !Y)	0.00002	0.00003	0.00003
	(!B * !D * S0 * !Y)	-0.00003	-0.00003	-0.00001
	(!B * !D * S0 * !Y)	0.00134	0.00136	0.00138
	(!A * !C * !S0 * !Y)	-0.00005	-0.00002	0.00003
	(!A * !C * !S0 * !Y)	0.00001	0.00003	0.00003
	(!A * !C * !S0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A * !C * !S0 * !Y)	0.00134	0.00136	0.00140

Passive power(pJ) for S1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X6H7H	(B * D * S0 * Y)	0.00119	0.00121	0.00126
	(B * D * S0 * Y)	-0.00003	-0.00003	-0.00002
	(B * D * S0 * Y)	0.00002	0.00003	0.00004
	(B * D * S0 * Y)	-0.00020	-0.00017	-0.00014
	(A * C * !S0 * Y)	0.00119	0.00121	0.00124
	(A * C * !S0 * Y)	-0.00003	-0.00003	-0.00001
	(A * C * !S0 * Y)	0.00001	0.00003	0.00003
	(A * C * !S0 * Y)	-0.00020	-0.00017	-0.00014
	(!B * !D * S0 * !Y)	0.00108	0.00110	0.00113
	(!B * !D * S0 * !Y)	-0.00003	-0.00003	-0.00002
	(!B * !D * S0 * !Y)	0.00001	0.00003	0.00003
	(!B * !D * S0 * !Y)	-0.00030	-0.00028	-0.00024
	(!A * !C * !S0 * !Y)	0.00108	0.00111	0.00116
	(!A * !C * !S0 * !Y)	-0.00003	-0.00003	-0.00001
	(!A * !C * !S0 * !Y)	0.00002	0.00003	0.00003
	(!A * !C * !S0 * !Y)	-0.00030	-0.00028	-0.00024

MUXI2X0P5H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The MUXI2 cell is a 2-to-1 multiplexer with inverted output. The state of the select input (S0) determines which data input (A, B) is presented to the output (Y). The output (Y) is represented by the logic equation:

Truth Table

INPUT			OUTPUT
A	B	S0	Y
0	0	x	1
0	1	0	1
x	1	1	0
1	x	0	0
1	0	1	1

Footprint

Cell Name	Area
MUXI2X0P5H7H	3.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	S0	Y
MUXI2X0P5H7H	0.00086	0.00089	0.00216	0.01396

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
MUXI2X0P5H7H	0.00000	0.02553	0.02770

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MUXI2X0P5H7H	A->Y (FR)	-	0.05421	0.19955	0.62806
	B->Y (FR)	-	0.05429	0.19867	0.62730
	S0->Y (RR)	(A * !B)	0.05042	0.17813	0.52470
	S0->Y (FR)	(!A * B)	0.04390	0.18351	0.56713

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MUXI2X0P5H7H	A->Y (RF)	-	0.04190	0.15780	0.51059
	B->Y (RF)	-	0.03860	0.15447	0.50803
	S0->Y (FF)	(A * !B)	0.05454	0.16321	0.43790
	S0->Y (RF)	(!A * B)	0.03010	0.14055	0.47291

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MUXI2X0P5H7H	A	-	0.00111	0.00112	0.00114
	A	-	-0.00012	-0.00011	-0.00011
	A	-	0.00010	0.00010	0.00010
	A	-	-0.00004	-0.00002	-0.00001
	B	-	0.00127	0.00130	0.00133
	B	-	-0.00011	-0.00011	-0.00011
	B	-	0.00010	0.00010	0.00010
	B	-	0.00010	0.00013	0.00015
	S0	(A * !B)	0.00038	0.00054	0.00072
	S0	(A * !B)	-0.00005	-0.00004	-0.00004
	S0	(A * !B)	0.00003	0.00003	0.00003
	S0	(A * !B)	0.00131	0.00147	0.00165
	S0	(!A * B)	0.00155	0.00162	0.00170
	S0	(!A * B)	-0.00008	-0.00008	-0.00008
	S0	(!A * B)	0.00007	0.00007	0.00008
	S0	(!A * B)	-0.00013	-0.00006	0.00002

Internal switching power(pJ) to Y falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MUXI2X0P5H7H	A	-	0.00015	0.00017	0.00018
	A	-	0.00011	0.00011	0.00012
	A	-	-0.00010	-0.00010	-0.00010
	A	-	0.00130	0.00132	0.00133
	B	-	-0.00011	-0.00008	-0.00007
	B	-	0.00011	0.00011	0.00012
	B	-	-0.00010	-0.00010	-0.00010
	B	-	0.00107	0.00109	0.00111
	S0	(A * !B)	0.00139	0.00153	0.00172
	S0	(A * !B)	0.00004	0.00004	0.00005
	S0	(A * !B)	-0.00003	-0.00003	-0.00003
	S0	(A * !B)	0.00046	0.00060	0.00079
	S0	(!A * B)	-0.00022	-0.00015	-0.00008
	S0	(!A * B)	0.00008	0.00008	0.00009
	S0	(!A * B)	-0.00008	-0.00007	-0.00007
	S0	(!A * B)	0.00146	0.00153	0.00160

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X0P5H7H	(B * S0 * !Y) + (!B * S0 * Y)	-0.00011	-0.00009	-0.00006
	(B * S0 * !Y) + (!B * S0 * Y)	0.00005	0.00005	0.00005
	(B * S0 * !Y) + (!B * S0 * Y)	-0.00005	-0.00005	-0.00004
	(B * S0 * !Y) + (!B * S0 * Y)	0.00067	0.00069	0.00072

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X0P5H7H	(B * S0 * !Y) + (!B * S0 * Y)	0.00068	0.00070	0.00074
	(B * S0 * !Y) + (!B * S0 * Y)	-0.00005	-0.00005	-0.00005
	(B * S0 * !Y) + (!B * S0 * Y)	0.00005	0.00005	0.00005
	(B * S0 * !Y) + (!B * S0 * Y)	-0.00010	-0.00008	-0.00004

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X0P5H7H	(A * !S0 * !Y) + (!A * !S0 * Y)	-0.00006	-0.00004	-0.00002
	(A * !S0 * !Y) + (!A * !S0 * Y)	0.00005	0.00005	0.00005
	(A * !S0 * !Y) + (!A * !S0 * Y)	-0.00005	-0.00005	-0.00004
	(A * !S0 * !Y) + (!A * !S0 * Y)	0.00074	0.00076	0.00078

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X0P5H7H	(A * !S0 * !Y) + (!A * !S0 * Y)	0.00075	0.00077	0.00081
	(A * !S0 * !Y) + (!A * !S0 * Y)	-0.00005	-0.00005	-0.00005
	(A * !S0 * !Y) + (!A * !S0 * Y)	0.00004	0.00005	0.00005
	(A * !S0 * !Y) + (!A * !S0 * Y)	-0.00004	-0.00003	0.00000

Passive power(pJ) for S0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X0P5H7H	(A * B * !Y)	-0.00013	-0.00011	-0.00008
	(A * B * !Y)	0.00002	0.00002	0.00002
	(A * B * !Y)	-0.00002	-0.00002	-0.00000
	(A * B * !Y)	0.00118	0.00120	0.00123
	(!A * !B * Y)	-0.00026	-0.00024	-0.00022
	(!A * !B * Y)	0.00002	0.00002	0.00003
	(!A * !B * Y)	-0.00002	-0.00002	-0.00002
	(!A * !B * Y)	0.00104	0.00106	0.00109

Passive power(pJ) for S0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X0P5H7H	(A * B * !Y)	0.00105	0.00107	0.00109
	(A * B * !Y)	-0.00002	-0.00002	-0.00002
	(A * B * !Y)	0.00000	0.00002	0.00003
	(A * B * !Y)	-0.00026	-0.00024	-0.00020
	(!A * !B * Y)	0.00117	0.00119	0.00122
	(!A * !B * Y)	-0.00003	-0.00002	-0.00001
	(!A * !B * Y)	0.00002	0.00002	0.00002
	(!A * !B * Y)	-0.00014	-0.00012	-0.00009

MUXI2X0P7H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The MUXI2 cell is a 2-to-1 multiplexer with inverted output. The state of the select input (S0) determines which data input (A, B) is presented to the output (Y). The output (Y) is represented by the logic equation:

Truth Table

INPUT			OUTPUT
A	B	S0	Y
0	0	x	1
0	1	0	1
x	1	1	0
1	x	0	0
1	0	1	1

Footprint

Cell Name	Area
MUXI2X0P7H7H	3.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	S0	Y
MUXI2X0P7H7H	0.00090	0.00093	0.00221	0.01600

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
MUXI2X0P7H7H	0.00000	0.02827	0.03075

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MUXI2X0P7H7H	A->Y (FR)	-	0.05047	0.19686	0.63057
	B->Y (FR)	-	0.05069	0.19632	0.63010
	S0->Y (RR)	(A * !B)	0.04925	0.17839	0.52928
	S0->Y (FR)	(!A * B)	0.04073	0.18222	0.57339

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MUXI2X0P7H7H	A->Y (RF)	-	0.03963	0.15751	0.51859
	B->Y (RF)	-	0.03633	0.15413	0.51591
	S0->Y (FF)	(A * !B)	0.05432	0.16480	0.44544
	S0->Y (RF)	(!A * B)	0.02823	0.14030	0.47793

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MUXI2X0P7H7H	A	-	0.00117	0.00119	0.00121
	A	-	-0.00013	-0.00013	-0.00013
	A	-	0.00011	0.00012	0.00012
	A	-	-0.00006	-0.00003	-0.00002
	B	-	0.00136	0.00138	0.00141
	B	-	-0.00013	-0.00013	-0.00013
	B	-	0.00011	0.00012	0.00012
	B	-	0.00012	0.00014	0.00017
	S0	(A * !B)	0.00043	0.00061	0.00081
	S0	(A * !B)	-0.00005	-0.00005	-0.00005
	S0	(A * !B)	0.00004	0.00004	0.00004
	S0	(A * !B)	0.00135	0.00153	0.00173
	S0	(!A * B)	0.00160	0.00167	0.00176
	S0	(!A * B)	-0.00009	-0.00009	-0.00007
	S0	(!A * B)	0.00008	0.00008	0.00008
	S0	(!A * B)	-0.00013	-0.00005	0.00003

Internal switching power(pJ) to Y falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MUXI2X0P7H7H	A	-	0.00016	0.00018	0.00020
	A	-	0.00013	0.00013	0.00014
	A	-	-0.00012	-0.00011	-0.00011
	A	-	0.00139	0.00141	0.00142
	B	-	-0.00012	-0.00009	-0.00007
	B	-	0.00013	0.00013	0.00013
	B	-	-0.00012	-0.00012	-0.00011
	B	-	0.00113	0.00115	0.00118
	S0	(A * !B)	0.00143	0.00159	0.00179
	S0	(A * !B)	0.00005	0.00005	0.00006
	S0	(A * !B)	-0.00004	-0.00004	-0.00004
	S0	(A * !B)	0.00051	0.00067	0.00087
	S0	(!A * B)	-0.00022	-0.00015	-0.00007
	S0	(!A * B)	0.00009	0.00009	0.00010
	S0	(!A * B)	-0.00008	-0.00008	-0.00007
	S0	(!A * B)	0.00151	0.00158	0.00165

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X0P7H7H	(B * S0 * !Y) + (!B * S0 * Y)	-0.00012	-0.00010	-0.00007
	(B * S0 * !Y) + (!B * S0 * Y)	0.00006	0.00006	0.00006
	(B * S0 * !Y) + (!B * S0 * Y)	-0.00005	-0.00005	-0.00005
	(B * S0 * !Y) + (!B * S0 * Y)	0.00071	0.00073	0.00076

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X0P7H7H	(B * S0 * !Y) + (!B * S0 * Y)	0.00073	0.00074	0.00078
	(B * S0 * !Y) + (!B * S0 * Y)	-0.00006	-0.00006	-0.00006
	(B * S0 * !Y) + (!B * S0 * Y)	0.00005	0.00005	0.00005
	(B * S0 * !Y) + (!B * S0 * Y)	-0.00010	-0.00008	-0.00004

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X0P7H7H	(A * !S0 * !Y) + (!A * !S0 * Y)	-0.00006	-0.00004	-0.00002
	(A * !S0 * !Y) + (!A * !S0 * Y)	0.00006	0.00006	0.00006
	(A * !S0 * !Y) + (!A * !S0 * Y)	-0.00005	-0.00005	-0.00005
	(A * !S0 * !Y) + (!A * !S0 * Y)	0.00077	0.00080	0.00082

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X0P7H7H	(A * !S0 * !Y) + (!A * !S0 * Y)	0.00079	0.00081	0.00084
	(A * !S0 * !Y) + (!A * !S0 * Y)	-0.00006	-0.00006	-0.00006
	(A * !S0 * !Y) + (!A * !S0 * Y)	0.00005	0.00005	0.00005
	(A * !S0 * !Y) + (!A * !S0 * Y)	-0.00005	-0.00003	-0.00000

Passive power(pJ) for S0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X0P7H7H	(A * B * !Y)	-0.00013	-0.00011	-0.00008
	(A * B * !Y)	0.00002	0.00002	0.00002
	(A * B * !Y)	-0.00002	-0.00002	-0.00000
	(A * B * !Y)	0.00120	0.00121	0.00123
	(!A * !B * Y)	-0.00025	-0.00022	-0.00018
	(!A * !B * Y)	0.00000	0.00002	0.00003
	(!A * !B * Y)	-0.00002	-0.00002	-0.00002
	(!A * !B * Y)	0.00108	0.00110	0.00113

Passive power(pJ) for S0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X0P7H7H	(A * B * !Y)	0.00108	0.00110	0.00112
	(A * B * !Y)	-0.00002	-0.00002	-0.00002
	(A * B * !Y)	0.00001	0.00002	0.00003
	(A * B * !Y)	-0.00025	-0.00023	-0.00019
	(!A * !B * Y)	0.00119	0.00120	0.00123
	(!A * !B * Y)	-0.00002	-0.00002	-0.00000
	(!A * !B * Y)	0.00002	0.00002	0.00002
	(!A * !B * Y)	-0.00014	-0.00012	-0.00009

MUXI2X1H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The MUXI2 cell is a 2-to-1 multiplexer with inverted output. The state of the select input (S0) determines which data input (A, B) is presented to the output (Y). The output (Y) is represented by the logic equation:

Truth Table

INPUT			OUTPUT
A	B	S0	Y
0	0	x	1
0	1	0	1
x	1	1	0
1	x	0	0
1	0	1	1

Footprint

Cell Name	Area
MUXI2X1H7H	3.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	S0	Y
MUXI2X1H7H	0.00096	0.00099	0.00229	0.01939

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
MUXI2X1H7H	0.00000	0.03473	0.03830

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MUXI2X1H7H	A->Y (FR)	-	0.04542	0.19401	0.63576
	B->Y (FR)	-	0.04658	0.19448	0.63641
	S0->Y (RR)	(A * !B)	0.04754	0.17912	0.53796
	S0->Y (FR)	(!A * B)	0.03674	0.18099	0.58208

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MUXI2X1H7H	A->Y (RF)	-	0.03727	0.15899	0.53402
	B->Y (RF)	-	0.03421	0.15609	0.53172
	S0->Y (FF)	(A * !B)	0.05388	0.16792	0.46033
	S0->Y (RF)	(!A * B)	0.02636	0.14195	0.49088

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MUXI2X1H7H	A	-	0.00127	0.00129	0.00131
	A	-	-0.00016	-0.00016	-0.00016
	A	-	0.00013	0.00014	0.00014
	A	-	-0.00006	-0.00004	-0.00002
	B	-	0.00150	0.00153	0.00155
	B	-	-0.00016	-0.00016	-0.00016
	B	-	0.00013	0.00014	0.00014
	B	-	0.00013	0.00016	0.00019
	S0	(A * !B)	0.00049	0.00069	0.00091
	S0	(A * !B)	-0.00007	-0.00007	-0.00007
	S0	(A * !B)	0.00005	0.00005	0.00005
	S0	(A * !B)	0.00142	0.00162	0.00184
	S0	(!A * B)	0.00166	0.00174	0.00182
	S0	(!A * B)	-0.00011	-0.00011	-0.00010
	S0	(!A * B)	0.00009	0.00009	0.00010
	S0	(!A * B)	-0.00015	-0.00007	0.00001

Internal switching power(pJ) to Y falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MUXI2X1H7H	A	-	0.00017	0.00019	0.00021
	A	-	0.00016	0.00016	0.00017
	A	-	-0.00014	-0.00014	-0.00013
	A	-	0.00150	0.00152	0.00154
	B	-	-0.00013	-0.00011	-0.00009
	B	-	0.00016	0.00016	0.00016
	B	-	-0.00014	-0.00014	-0.00013
	B	-	0.00123	0.00126	0.00128
	S0	(A * !B)	0.00149	0.00167	0.00189
	S0	(A * !B)	0.00007	0.00007	0.00008
	S0	(A * !B)	-0.00005	-0.00005	-0.00005
	S0	(A * !B)	0.00055	0.00073	0.00096
	S0	(!A * B)	-0.00023	-0.00015	-0.00007
	S0	(!A * B)	0.00011	0.00011	0.00011
	S0	(!A * B)	-0.00009	-0.00009	-0.00008
	S0	(!A * B)	0.00158	0.00166	0.00173

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X1H7H	(B * S0 * !Y) + (!B * S0 * Y)	-0.00013	-0.00011	-0.00008
	(B * S0 * !Y) + (!B * S0 * Y)	0.00007	0.00007	0.00007
	(B * S0 * !Y) + (!B * S0 * Y)	-0.00006	-0.00006	-0.00006
	(B * S0 * !Y) + (!B * S0 * Y)	0.00076	0.00078	0.00082

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X1H7H	(B * S0 * !Y) + (!B * S0 * Y)	0.00080	0.00082	0.00086
	(B * S0 * !Y) + (!B * S0 * Y)	-0.00007	-0.00007	-0.00007
	(B * S0 * !Y) + (!B * S0 * Y)	0.00006	0.00006	0.00006
	(B * S0 * !Y) + (!B * S0 * Y)	-0.00010	-0.00008	-0.00004

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X1H7H	(A * !S0 * !Y) + (!A * !S0 * Y)	-0.00007	-0.00005	-0.00003
	(A * !S0 * !Y) + (!A * !S0 * Y)	0.00007	0.00007	0.00007
	(A * !S0 * !Y) + (!A * !S0 * Y)	-0.00007	-0.00006	-0.00006
	(A * !S0 * !Y) + (!A * !S0 * Y)	0.00085	0.00088	0.00090

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X1H7H	(A * !S0 * !Y) + (!A * !S0 * Y)	0.00086	0.00088	0.00092
	(A * !S0 * !Y) + (!A * !S0 * Y)	-0.00007	-0.00007	-0.00007
	(A * !S0 * !Y) + (!A * !S0 * Y)	0.00006	0.00006	0.00007
	(A * !S0 * !Y) + (!A * !S0 * Y)	-0.00007	-0.00005	-0.00002

Passive power(pJ) for S0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X1H7H	(A * B * !Y)	-0.00013	-0.00011	-0.00008
	(A * B * !Y)	0.00002	0.00002	0.00002
	(A * B * !Y)	-0.00003	-0.00002	-0.00002
	(A * B * !Y)	0.00124	0.00127	0.00130
	(!A * !B * Y)	-0.00025	-0.00023	-0.00020
	(!A * !B * Y)	0.00001	0.00002	0.00003
	(!A * !B * Y)	-0.00002	-0.00002	-0.00002
	(!A * !B * Y)	0.00112	0.00114	0.00118

Passive power(pJ) for S0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X1H7H	(A * B * !Y)	0.00111	0.00113	0.00116
	(A * B * !Y)	-0.00002	-0.00002	-0.00002
	(A * B * !Y)	0.00002	0.00002	0.00003
	(A * B * !Y)	-0.00026	-0.00024	-0.00022
	(!A * !B * Y)	0.00122	0.00124	0.00127
	(!A * !B * Y)	-0.00002	-0.00002	-0.00001
	(!A * !B * Y)	0.00002	0.00002	0.00002
	(!A * !B * Y)	-0.00015	-0.00013	-0.00011

MUXI2X1P4H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The MUXI2 cell is a 2-to-1 multiplexer with inverted output. The state of the select input (S0) determines which data input (A, B) is presented to the output (Y). The output (Y) is represented by the logic equation:

Truth Table

INPUT			OUTPUT
A	B	S0	Y
0	0	x	1
0	1	0	1
x	1	1	0
1	x	0	0
1	0	1	1

Footprint

Cell Name	Area
MUXI2X1P4H7H	3.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	S0	Y
MUXI2X1P4H7H	0.00103	0.00106	0.00238	0.02200

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
MUXI2X1P4H7H	0.00000	0.04336	0.04883

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MUXI2X1P4H7H	A->Y (FR)	-	0.04279	0.19181	0.63632
	B->Y (FR)	-	0.04437	0.19274	0.63722
	S0->Y (RR)	(A * !B)	0.04695	0.17916	0.53964
	S0->Y (FR)	(!A * B)	0.03468	0.17971	0.58504

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MUXI2X1P4H7H	A->Y (RF)	-	0.03574	0.15817	0.53711
	B->Y (RF)	-	0.03273	0.15536	0.53507
	S0->Y (FF)	(A * !B)	0.05394	0.16891	0.46478
	S0->Y (RF)	(!A * B)	0.02512	0.14122	0.49339

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MUXI2X1P4H7H	A	-	0.00137	0.00140	0.00143
	A	-	-0.00019	-0.00019	-0.00018
	A	-	0.00016	0.00016	0.00016
	A	-	-0.00008	-0.00005	-0.00003
	B	-	0.00164	0.00166	0.00169
	B	-	-0.00019	-0.00019	-0.00019
	B	-	0.00016	0.00016	0.00016
	B	-	0.00014	0.00017	0.00020
	S0	(A * !B)	0.00056	0.00079	0.00103
	S0	(A * !B)	-0.00009	-0.00008	-0.00007
	S0	(A * !B)	0.00006	0.00006	0.00006
	S0	(A * !B)	0.00148	0.00171	0.00195
	S0	(!A * B)	0.00172	0.00181	0.00190
	S0	(!A * B)	-0.00013	-0.00012	-0.00011
	S0	(!A * B)	0.00010	0.00011	0.00011
	S0	(!A * B)	-0.00018	-0.00009	-0.00000

Internal switching power(pJ) to Y falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MUXI2X1P4H7H	A	-	0.00017	0.00019	0.00021
	A	-	0.00019	0.00019	0.00019
	A	-	-0.00016	-0.00016	-0.00015
	A	-	0.00163	0.00165	0.00168
	B	-	-0.00015	-0.00012	-0.00010
	B	-	0.00019	0.00019	0.00019
	B	-	-0.00016	-0.00016	-0.00015
	B	-	0.00134	0.00137	0.00140
	S0	(A * !B)	0.00154	0.00174	0.00199
	S0	(A * !B)	0.00007	0.00008	0.00009
	S0	(A * !B)	-0.00006	-0.00006	-0.00006
	S0	(A * !B)	0.00061	0.00081	0.00106
	S0	(!A * B)	-0.00024	-0.00015	-0.00007
	S0	(!A * B)	0.00012	0.00012	0.00013
	S0	(!A * B)	-0.00011	-0.00010	-0.00009
	S0	(!A * B)	0.00166	0.00175	0.00182

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X1P4H7H	(B * S0 * !Y) + (!B * S0 * Y)	-0.00015	-0.00013	-0.00010
	(B * S0 * !Y) + (!B * S0 * Y)	0.00008	0.00009	0.00009
	(B * S0 * !Y) + (!B * S0 * Y)	-0.00007	-0.00007	-0.00007
	(B * S0 * !Y) + (!B * S0 * Y)	0.00083	0.00085	0.00089

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X1P4H7H	(B * S0 * !Y) + (!B * S0 * Y)	0.00087	0.00089	0.00093
	(B * S0 * !Y) + (!B * S0 * Y)	-0.00008	-0.00008	-0.00008
	(B * S0 * !Y) + (!B * S0 * Y)	0.00007	0.00007	0.00007
	(B * S0 * !Y) + (!B * S0 * Y)	-0.00012	-0.00009	-0.00005

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X1P4H7H	(A * !S0 * !Y) + (!A * !S0 * Y)	-0.00008	-0.00006	-0.00003
	(A * !S0 * !Y) + (!A * !S0 * Y)	0.00008	0.00008	0.00009
	(A * !S0 * !Y) + (!A * !S0 * Y)	-0.00007	-0.00007	-0.00007
	(A * !S0 * !Y) + (!A * !S0 * Y)	0.00093	0.00095	0.00098

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X1P4H7H	(A * !S0 * !Y) + (!A * !S0 * Y)	0.00092	0.00094	0.00098
	(A * !S0 * !Y) + (!A * !S0 * Y)	-0.00008	-0.00008	-0.00008
	(A * !S0 * !Y) + (!A * !S0 * Y)	0.00007	0.00007	0.00007
	(A * !S0 * !Y) + (!A * !S0 * Y)	-0.00009	-0.00006	-0.00003

Passive power(pJ) for S0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X1P4H7H	(A * B * !Y)	-0.00013	-0.00011	-0.00008
	(A * B * !Y)	0.00002	0.00002	0.00002
	(A * B * !Y)	-0.00002	-0.00002	-0.00001
	(A * B * !Y)	0.00129	0.00131	0.00134
	(!A * !B * Y)	-0.00025	-0.00023	-0.00020
	(!A * !B * Y)	0.00002	0.00002	0.00003
	(!A * !B * Y)	-0.00002	-0.00002	-0.00002
	(!A * !B * Y)	0.00116	0.00119	0.00122

Passive power(pJ) for S0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X1P4H7H	(A * B * !Y)	0.00114	0.00116	0.00119
	(A * B * !Y)	-0.00002	-0.00002	-0.00002
	(A * B * !Y)	0.00001	0.00002	0.00002
	(A * B * !Y)	-0.00028	-0.00025	-0.00023
	(!A * !B * Y)	0.00126	0.00128	0.00131
	(!A * !B * Y)	-0.00003	-0.00002	-0.00001
	(!A * !B * Y)	0.00002	0.00002	0.00002
	(!A * !B * Y)	-0.00016	-0.00014	-0.00012

MUXI2X2H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The MUXI2 cell is a 2-to-1 multiplexer with inverted output. The state of the select input (S0) determines which data input (A, B) is presented to the output (Y). The output (Y) is represented by the logic equation:

Truth Table

INPUT			OUTPUT
A	B	S0	Y
0	0	x	1
0	1	0	1
x	1	1	0
1	x	0	0
1	0	1	1

Footprint

Cell Name	Area
MUXI2X2H7H	4.48000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	S0	Y
MUXI2X2H7H	0.00173	0.00168	0.00291	0.03028

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
MUXI2X2H7H	0.00000	0.04531	0.04812

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MUXI2X2H7H	A->Y (FR)	-	0.04893	0.20258	0.65498
	B->Y (FR)	-	0.05379	0.20680	0.65815
	S0->Y (RR)	(A * !B)	0.05983	0.20002	0.58597
	S0->Y (FR)	(!A * B)	0.03634	0.18647	0.60777

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MUXI2X2H7H	A->Y (RF)	-	0.04106	0.16263	0.53396
	B->Y (RF)	-	0.03646	0.15915	0.53220
	S0->Y (FF)	(A * !B)	0.06803	0.18784	0.49775
	S0->Y (RF)	(!A * B)	0.02600	0.14285	0.50702

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MUXI2X2H7H	A	-	0.00221	0.00225	0.00230
	A	-	-0.00023	-0.00023	-0.00022
	A	-	0.00020	0.00020	0.00020
	A	-	-0.00004	0.00001	0.00006
	B	-	0.00281	0.00286	0.00291
	B	-	-0.00023	-0.00023	-0.00022
	B	-	0.00020	0.00020	0.00020
	B	-	0.00056	0.00061	0.00065
	S0	(A * !B)	0.00134	0.00173	0.00213
	S0	(A * !B)	-0.00011	-0.00011	-0.00010
	S0	(A * !B)	0.00008	0.00009	0.00009
	S0	(A * !B)	0.00232	0.00271	0.00312
	S0	(!A * B)	0.00214	0.00226	0.00240
	S0	(!A * B)	-0.00015	-0.00015	-0.00012
	S0	(!A * B)	0.00012	0.00013	0.00013
	S0	(!A * B)	-0.00021	-0.00008	0.00005

Internal switching power(pJ) to Y falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MUXI2X2H7H	A	-	0.00039	0.00044	0.00048
	A	-	0.00022	0.00023	0.00023
	A	-	-0.00020	-0.00020	-0.00020
	A	-	0.00264	0.00268	0.00272
	B	-	-0.00021	-0.00017	-0.00013
	B	-	0.00023	0.00023	0.00023
	B	-	-0.00020	-0.00020	-0.00020
	B	-	0.00205	0.00208	0.00212
	S0	(A * !B)	0.00206	0.00240	0.00281
	S0	(A * !B)	0.00011	0.00011	0.00012
	S0	(A * !B)	-0.00009	-0.00009	-0.00008
	S0	(A * !B)	0.00107	0.00142	0.00183
	S0	(!A * B)	-0.00014	-0.00002	0.00008
	S0	(!A * B)	0.00015	0.00015	0.00016
	S0	(!A * B)	-0.00013	-0.00013	-0.00010
	S0	(!A * B)	0.00221	0.00232	0.00243

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X2H7H	(B * S0 * !Y) + (!B * S0 * Y)	-0.00024	-0.00020	-0.00015
	(B * S0 * !Y) + (!B * S0 * Y)	0.00010	0.00010	0.00010
	(B * S0 * !Y) + (!B * S0 * Y)	-0.00009	-0.00009	-0.00009
	(B * S0 * !Y) + (!B * S0 * Y)	0.00133	0.00137	0.00141

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X2H7H	(B * S0 * !Y) + (!B * S0 * Y)	0.00160	0.00164	0.00170
	(B * S0 * !Y) + (!B * S0 * Y)	-0.00010	-0.00010	-0.00010
	(B * S0 * !Y) + (!B * S0 * Y)	0.00009	0.00009	0.00009
	(B * S0 * !Y) + (!B * S0 * Y)	0.00003	0.00007	0.00013

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X2H7H	(A * !S0 * !Y) + (!A * !S0 * Y)	-0.00005	-0.00001	0.00003
	(A * !S0 * !Y) + (!A * !S0 * Y)	0.00010	0.00010	0.00010
	(A * !S0 * !Y) + (!A * !S0 * Y)	-0.00010	-0.00009	-0.00009
	(A * !S0 * !Y) + (!A * !S0 * Y)	0.00152	0.00156	0.00161

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X2H7H	(A * !S0 * !Y) + (!A * !S0 * Y)	0.00132	0.00136	0.00143
	(A * !S0 * !Y) + (!A * !S0 * Y)	-0.00010	-0.00010	-0.00010
	(A * !S0 * !Y) + (!A * !S0 * Y)	0.00009	0.00009	0.00010
	(A * !S0 * !Y) + (!A * !S0 * Y)	-0.00025	-0.00021	-0.00014

Passive power(pJ) for S0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X2H7H	(A * B * !Y)	-0.00013	-0.00011	-0.00008
	(A * B * !Y)	0.00002	0.00002	0.00002
	(A * B * !Y)	-0.00002	-0.00002	0.00001
	(A * B * !Y)	0.00154	0.00156	0.00158
	(!A * !B * Y)	-0.00014	-0.00012	-0.00007
	(!A * !B * Y)	-0.00000	0.00002	0.00003
	(!A * !B * Y)	-0.00002	-0.00002	-0.00002
	(!A * !B * Y)	0.00152	0.00155	0.00158

Passive power(pJ) for S0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X2H7H	(A * B * !Y)	0.00145	0.00147	0.00150
	(A * B * !Y)	-0.00002	-0.00002	-0.00002
	(A * B * !Y)	0.00002	0.00002	0.00003
	(A * B * !Y)	-0.00023	-0.00020	-0.00018
	(!A * !B * Y)	0.00144	0.00145	0.00148
	(!A * !B * Y)	-0.00002	-0.00001	0.00000
	(!A * !B * Y)	0.00002	0.00002	0.00002
	(!A * !B * Y)	-0.00023	-0.00021	-0.00017

MUXI2X3H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The MUXI2 cell is a 2-to-1 multiplexer with inverted output. The state of the select input (S0) determines which data input (A, B) is presented to the output (Y). The output (Y) is represented by the logic equation:

Truth Table

INPUT			OUTPUT
A	B	S0	Y
0	0	x	1
0	1	0	1
x	1	1	0
1	x	0	0
1	0	1	1

Footprint

Cell Name	Area
MUXI2X3H7H	4.48000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	S0	Y
MUXI2X3H7H	0.00203	0.00199	0.00317	0.04145

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
MUXI2X3H7H	0.00000	0.07135	0.07732

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MUXI2X3H7H	A->Y (FR)	-	0.04093	0.19425	0.64997
	B->Y (FR)	-	0.04503	0.19778	0.65349
	S0->Y (RR)	(A * !B)	0.05169	0.19278	0.58191
	S0->Y (FR)	(!A * B)	0.03054	0.18148	0.60515

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MUXI2X3H7H	A->Y (RF)	-	0.03558	0.15963	0.54339
	B->Y (RF)	-	0.03149	0.15655	0.54202
	S0->Y (FF)	(A * !B)	0.05885	0.17950	0.49018
	S0->Y (RF)	(!A * B)	0.02233	0.14101	0.51161

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MUXI2X3H7H	A	-	0.00261	0.00267	0.00273
	A	-	-0.00032	-0.00031	-0.00029
	A	-	0.00028	0.00028	0.00028
	A	-	-0.00006	-0.00001	0.00005
	B	-	0.00326	0.00331	0.00336
	B	-	-0.00032	-0.00031	-0.00030
	B	-	0.00028	0.00028	0.00028
	B	-	0.00056	0.00062	0.00067
	S0	(A * !B)	0.00150	0.00197	0.00245
	S0	(A * !B)	-0.00015	-0.00014	-0.00014
	S0	(A * !B)	0.00012	0.00012	0.00013
	S0	(A * !B)	0.00250	0.00297	0.00346
	S0	(!A * B)	0.00240	0.00253	0.00267
	S0	(!A * B)	-0.00020	-0.00019	-0.00017
	S0	(!A * B)	0.00017	0.00018	0.00018
	S0	(!A * B)	-0.00023	-0.00010	0.00005

Internal switching power(pJ) to Y falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MUXI2X3H7H	A	-	0.00037	0.00043	0.00048
	A	-	0.00029	0.00031	0.00032
	A	-	-0.00028	-0.00028	-0.00028
	A	-	0.00306	0.00311	0.00316
	B	-	-0.00028	-0.00023	-0.00019
	B	-	0.00030	0.00031	0.00032
	B	-	-0.00028	-0.00028	-0.00028
	B	-	0.00242	0.00246	0.00251
	S0	(A * !B)	0.00224	0.00263	0.00310
	S0	(A * !B)	0.00014	0.00014	0.00016
	S0	(A * !B)	-0.00012	-0.00012	-0.00012
	S0	(A * !B)	0.00123	0.00163	0.00210
	S0	(!A * B)	-0.00016	-0.00003	0.00008
	S0	(!A * B)	0.00019	0.00020	0.00020
	S0	(!A * B)	-0.00018	-0.00018	-0.00016
	S0	(!A * B)	0.00246	0.00259	0.00270

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X3H7H	(B * S0 * !Y) + (!B * S0 * Y)	-0.00032	-0.00027	-0.00021
	(B * S0 * !Y) + (!B * S0 * Y)	0.00014	0.00014	0.00014
	(B * S0 * !Y) + (!B * S0 * Y)	-0.00013	-0.00013	-0.00013
	(B * S0 * !Y) + (!B * S0 * Y)	0.00156	0.00161	0.00166

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X3H7H	(B * S0 * !Y) + (!B * S0 * Y)	0.00192	0.00196	0.00203
	(B * S0 * !Y) + (!B * S0 * Y)	-0.00014	-0.00014	-0.00014
	(B * S0 * !Y) + (!B * S0 * Y)	0.00013	0.00013	0.00013
	(B * S0 * !Y) + (!B * S0 * Y)	0.00004	0.00008	0.00015

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X3H7H	(A * !S0 * !Y) + (!A * !S0 * Y)	-0.00011	-0.00006	-0.00001
	(A * !S0 * !Y) + (!A * !S0 * Y)	0.00013	0.00014	0.00014
	(A * !S0 * !Y) + (!A * !S0 * Y)	-0.00013	-0.00013	-0.00012
	(A * !S0 * !Y) + (!A * !S0 * Y)	0.00178	0.00182	0.00188

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X3H7H	(A * !S0 * !Y) + (!A * !S0 * Y)	0.00156	0.00161	0.00169
	(A * !S0 * !Y) + (!A * !S0 * Y)	-0.00014	-0.00014	-0.00013
	(A * !S0 * !Y) + (!A * !S0 * Y)	0.00012	0.00013	0.00013
	(A * !S0 * !Y) + (!A * !S0 * Y)	-0.00033	-0.00028	-0.00020

Passive power(pJ) for S0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X3H7H	(A * B * !Y)	-0.00016	-0.00013	-0.00010
	(A * B * !Y)	0.00002	0.00003	0.00003
	(A * B * !Y)	-0.00003	-0.00002	-0.00000
	(A * B * !Y)	0.00166	0.00169	0.00172
	(!A * !B * Y)	-0.00016	-0.00013	-0.00008
	(!A * !B * Y)	-0.00000	0.00002	0.00003
	(!A * !B * Y)	-0.00003	-0.00003	-0.00003
	(!A * !B * Y)	0.00165	0.00168	0.00171

Passive power(pJ) for S0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X3H7H	(A * B * !Y)	0.00160	0.00162	0.00165
	(A * B * !Y)	-0.00003	-0.00003	-0.00002
	(A * B * !Y)	0.00002	0.00003	0.00005
	(A * B * !Y)	-0.00023	-0.00020	-0.00018
	(!A * !B * Y)	0.00158	0.00160	0.00163
	(!A * !B * Y)	-0.00003	-0.00002	0.00000
	(!A * !B * Y)	0.00003	0.00003	0.00003
	(!A * !B * Y)	-0.00023	-0.00021	-0.00018

MUXI2X4H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The MUXI2 cell is a 2-to-1 multiplexer with inverted output. The state of the select input (S0) determines which data input (A, B) is presented to the output (Y). The output (Y) is represented by the logic equation:

Truth Table

INPUT			OUTPUT
A	B	S0	Y
0	0	x	1
0	1	0	1
x	1	1	0
1	x	0	0
1	0	1	1

Footprint

Cell Name	Area
MUXI2X4H7H	5.32000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	S0	Y
MUXI2X4H7H	0.00274	0.00279	0.00358	0.04804

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
MUXI2X4H7H	0.00000	0.08821	0.11156

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MUXI2X4H7H	A->Y (FR)	-	0.03899	0.18616	0.62687
	B->Y (FR)	-	0.04217	0.18382	0.61120
	S0->Y (RR)	(A * !B)	0.05027	0.18406	0.55189
	S0->Y (FR)	(!A * B)	0.02768	0.17197	0.58144

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MUXI2X4H7H	A->Y (RF)	-	0.03297	0.14583	0.50072
	B->Y (RF)	-	0.02911	0.14468	0.50371
	S0->Y (FF)	(A * !B)	0.05685	0.17066	0.45878
	S0->Y (RF)	(!A * B)	0.02009	0.13169	0.48977

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MUXI2X4H7H	A	-	0.00319	0.00326	0.00336
	A	-	-0.00040	-0.00040	-0.00038
	A	-	0.00037	0.00037	0.00038
	A	-	-0.00027	-0.00019	-0.00011
	B	-	0.00406	0.00413	0.00421
	B	-	-0.00040	-0.00039	-0.00038
	B	-	0.00036	0.00037	0.00037
	B	-	0.00051	0.00060	0.00067
	S0	(A * !B)	0.00182	0.00241	0.00302
	S0	(A * !B)	-0.00018	-0.00018	-0.00017
	S0	(A * !B)	0.00016	0.00016	0.00016
	S0	(A * !B)	0.00288	0.00347	0.00407
	S0	(!A * B)	0.00271	0.00286	0.00302
	S0	(!A * B)	-0.00025	-0.00024	-0.00021
	S0	(!A * B)	0.00023	0.00023	0.00024
	S0	(!A * B)	-0.00030	-0.00015	0.00002

Internal switching power(pJ) to Y falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MUXI2X4H7H	A	-	0.00047	0.00055	0.00062
	A	-	0.00038	0.00040	0.00042
	A	-	-0.00037	-0.00037	-0.00037
	A	-	0.00393	0.00400	0.00408
	B	-	-0.00040	-0.00032	-0.00026
	B	-	0.00039	0.00039	0.00040
	B	-	-0.00037	-0.00037	-0.00036
	B	-	0.00315	0.00321	0.00328
	S0	(A * !B)	0.00269	0.00316	0.00371
	S0	(A * !B)	0.00017	0.00018	0.00018
	S0	(A * !B)	-0.00016	-0.00016	-0.00015
	S0	(A * !B)	0.00163	0.00210	0.00265
	S0	(!A * B)	-0.00022	-0.00006	0.00007
	S0	(!A * B)	0.00024	0.00025	0.00025
	S0	(!A * B)	-0.00023	-0.00023	-0.00021
	S0	(!A * B)	0.00280	0.00294	0.00307

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X4H7H	(B * S0 * !Y) + (!B * S0 * Y)	-0.00042	-0.00036	-0.00028
	(B * S0 * !Y) + (!B * S0 * Y)	0.00018	0.00018	0.00019
	(B * S0 * !Y) + (!B * S0 * Y)	-0.00017	-0.00017	-0.00017
	(B * S0 * !Y) + (!B * S0 * Y)	0.00207	0.00214	0.00221

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X4H7H	(B * S0 * !Y) + (!B * S0 * Y)	0.00237	0.00243	0.00252
	(B * S0 * !Y) + (!B * S0 * Y)	-0.00019	-0.00018	-0.00018
	(B * S0 * !Y) + (!B * S0 * Y)	0.00017	0.00017	0.00018
	(B * S0 * !Y) + (!B * S0 * Y)	-0.00013	-0.00006	0.00002

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X4H7H	(A * !S0 * !Y) + (!A * !S0 * Y)	-0.00020	-0.00013	-0.00004
	(A * !S0 * !Y) + (!A * !S0 * Y)	0.00018	0.00018	0.00019
	(A * !S0 * !Y) + (!A * !S0 * Y)	-0.00018	-0.00017	-0.00017
	(A * !S0 * !Y) + (!A * !S0 * Y)	0.00237	0.00244	0.00253

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X4H7H	(A * !S0 * !Y) + (!A * !S0 * Y)	0.00209	0.00215	0.00227
	(A * !S0 * !Y) + (!A * !S0 * Y)	-0.00019	-0.00018	-0.00018
	(A * !S0 * !Y) + (!A * !S0 * Y)	0.00017	0.00017	0.00018
	(A * !S0 * !Y) + (!A * !S0 * Y)	-0.00048	-0.00042	-0.00030

Passive power(pJ) for S0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X4H7H	(A * B * !Y)	-0.00018	-0.00015	-0.00012
	(A * B * !Y)	0.00003	0.00003	0.00003
	(A * B * !Y)	-0.00005	-0.00003	-0.00001
	(A * B * !Y)	0.00186	0.00189	0.00194
	(!A * !B * Y)	-0.00010	-0.00007	-0.00001
	(!A * !B * Y)	0.00000	0.00002	0.00004
	(!A * !B * Y)	-0.00004	-0.00003	-0.00003
	(!A * !B * Y)	0.00194	0.00196	0.00200

Passive power(pJ) for S0 falling (conditional):

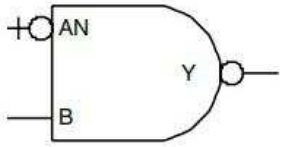
Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X4H7H	(A * B * !Y)	0.00191	0.00193	0.00197
	(A * B * !Y)	-0.00003	-0.00003	-0.00003
	(A * B * !Y)	0.00001	0.00003	0.00005
	(A * B * !Y)	-0.00014	-0.00011	-0.00006
	(!A * !B * Y)	0.00179	0.00182	0.00187
	(!A * !B * Y)	-0.00003	-0.00002	0.00000
	(!A * !B * Y)	0.00003	0.00003	0.00004
	(!A * !B * Y)	-0.00024	-0.00022	-0.00018

NAND2BX0P5H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND2B cell provides the logical NAND of one inverted input (AN) and one non-inverted input (B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
AN	B	Y
x	0	1
0	1	0
1	1	1

Footprint

Cell Name	Area
NAND2BX0P5H7H	1.40000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	AN	B	Y
NAND2BX0P5H7H	0.00098	0.00091	0.02542

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND2BX0P5H7H	0.00000	0.01221	0.01781

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2BX0P5H7H	AN->Y (RR)	0.05054	0.19125	0.52824
	B->Y (FR)	0.02634	0.18621	0.68698

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2BX0P5H7H	AN->Y (FF)	0.06645	0.23869	0.66156
	B->Y (RF)	0.03243	0.21085	0.74969

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2BX0P5H7H	AN	0.00061	0.00066	0.00070
	AN	-0.00003	-0.00003	-0.00003
	AN	0.00002	0.00004	0.00004
	AN	0.00102	0.00107	0.00113
	B	0.00057	0.00063	0.00068
	B	-0.00005	-0.00005	-0.00005
	B	0.00002	0.00002	0.00003
	B	-0.00012	-0.00007	-0.00003

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2BX0P5H7H	AN	0.00100	0.00104	0.00108
	AN	0.00003	0.00003	0.00003
	AN	-0.00004	-0.00004	-0.00002
	AN	0.00060	0.00064	0.00069
	B	-0.00009	-0.00005	-0.00002
	B	0.00005	0.00005	0.00005
	B	-0.00002	-0.00002	-0.00002
	B	0.00059	0.00066	0.00069

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX0P5H7H	(!B * Y)	0.00001	0.00004	0.00008
	(!B * Y)	0.00003	0.00003	0.00003
	(!B * Y)	-0.00004	-0.00003	-0.00003
	(!B * Y)	0.00082	0.00085	0.00088

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX0P5H7H	(!B * Y)	0.00081	0.00084	0.00086
	(!B * Y)	-0.00003	-0.00003	-0.00003
	(!B * Y)	0.00003	0.00003	0.00004
	(!B * Y)	0.00001	0.00004	0.00007

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX0P5H7H	(AN * Y)	-0.00025	-0.00025	-0.00025
	(AN * Y)	-0.00001	-0.00001	-0.00001
	(AN * Y)	0.00003	0.00003	0.00003
	(AN * Y)	0.00012	0.00012	0.00012

Passive power(pJ) for B falling (conditional):

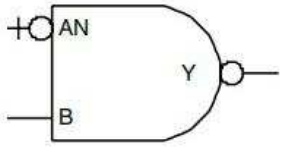
Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX0P5H7H	(AN * Y)	0.00025	0.00025	0.00025
	(AN * Y)	0.00001	0.00001	0.00001
	(AN * Y)	-0.00003	-0.00003	-0.00003
	(AN * Y)	-0.00012	-0.00012	-0.00012

NAND2BX0P7H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND2B cell provides the logical NAND of one inverted input (AN) and one non-inverted input (B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
AN	B	Y
x	0	1
0	1	0
1	1	1

Footprint

Cell Name	Area
NAND2BX0P7H7H	1.40000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	AN	B	Y
NAND2BX0P7H7H	0.00099	0.00094	0.02871

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND2BX0P7H7H	0.00000	0.01297	0.01683

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2BX0P7H7H	AN->Y (RR)	0.04923	0.19017	0.52760
	B->Y (FR)	0.02409	0.18313	0.68446

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2BX0P7H7H	AN->Y (FF)	0.06571	0.24004	0.66847
	B->Y (RF)	0.02981	0.20924	0.75316

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2BX0P7H7H	AN	0.00066	0.00071	0.00075
	AN	-0.00004	-0.00004	-0.00003
	AN	0.00004	0.00005	0.00005
	AN	0.00105	0.00110	0.00115
	B	0.00059	0.00065	0.00070
	B	-0.00006	-0.00006	-0.00005
	B	0.00002	0.00003	0.00003
	B	-0.00013	-0.00008	-0.00004

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2BX0P7H7H	AN	0.00103	0.00107	0.00111
	AN	0.00004	0.00004	0.00004
	AN	-0.00005	-0.00005	-0.00004
	AN	0.00065	0.00069	0.00074
	B	-0.00009	-0.00005	-0.00002
	B	0.00006	0.00006	0.00006
	B	-0.00003	-0.00002	-0.00002
	B	0.00064	0.00068	0.00072

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX0P7H7H	(!B * Y)	0.00003	0.00006	0.00009
	(!B * Y)	0.00003	0.00003	0.00003
	(!B * Y)	-0.00004	-0.00003	-0.00003
	(!B * Y)	0.00085	0.00087	0.00091

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX0P7H7H	(!B * Y)	0.00082	0.00085	0.00088
	(!B * Y)	-0.00003	-0.00003	-0.00003
	(!B * Y)	0.00003	0.00003	0.00004
	(!B * Y)	0.00001	0.00004	0.00007

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX0P7H7H	(AN * Y)	-0.00027	-0.00026	-0.00026
	(AN * Y)	-0.00001	-0.00001	-0.00001
	(AN * Y)	0.00003	0.00003	0.00003
	(AN * Y)	0.00012	0.00012	0.00012

Passive power(pJ) for B falling (conditional):

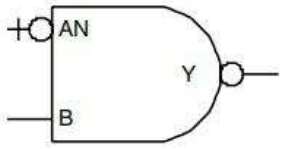
Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX0P7H7H	(AN * Y)	0.00026	0.00027	0.00027
	(AN * Y)	0.00001	0.00001	0.00001
	(AN * Y)	-0.00003	-0.00003	-0.00003
	(AN * Y)	-0.00012	-0.00012	-0.00012

NAND2BX12H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND2B cell provides the logical NAND of one inverted input (AN) and one non-inverted input (B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
AN	B	Y
x	0	1
0	1	0
1	1	1

Footprint

Cell Name	Area
NAND2BX12H7H	6.16000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	AN	B	Y
NAND2BX12H7H	0.00233	0.00709	0.25423

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND2BX12H7H	0.00000	0.13198	0.21243

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2BX12H7H	AN->Y (RR)	0.05302	0.20357	0.56264
	B->Y (FR)	0.01606	0.16863	0.66538

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2BX12H7H	AN->Y (FF)	0.07335	0.26182	0.72571
	B->Y (RF)	0.02029	0.19770	0.74525

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2BX12H7H	AN	0.00671	0.00706	0.00735
	AN	-0.00053	-0.00053	-0.00048
	AN	0.00058	0.00059	0.00059
	AN	0.00516	0.00551	0.00579
	B	0.00428	0.00499	0.00535
	B	-0.00062	-0.00061	-0.00057
	B	0.00018	0.00024	0.00027
	B	-0.00122	-0.00081	-0.00048

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2BX12H7H	AN	0.00535	0.00567	0.00593
	AN	0.00051	0.00053	0.00055
	AN	-0.00059	-0.00059	-0.00058
	AN	0.00711	0.00743	0.00770
	B	-0.00040	-0.00004	0.00021
	B	0.00059	0.00061	0.00062
	B	-0.00024	-0.00024	-0.00018
	B	0.00518	0.00577	0.00610

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX12H7H	(!B * Y)	0.00123	0.00132	0.00141
	(!B * Y)	0.00017	0.00017	0.00017
	(!B * Y)	-0.00023	-0.00022	-0.00022
	(!B * Y)	0.00342	0.00352	0.00364

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX12H7H	(!B * Y)	0.00333	0.00339	0.00346
	(!B * Y)	-0.00017	-0.00017	-0.00017
	(!B * Y)	0.00022	0.00022	0.00023
	(!B * Y)	0.00119	0.00124	0.00131

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX12H7H	(AN * Y)	-0.00226	-0.00225	-0.00222
	(AN * Y)	-0.00009	-0.00009	-0.00008
	(AN * Y)	0.00024	0.00025	0.00025
	(AN * Y)	0.00058	0.00059	0.00060

Passive power(pJ) for B falling (conditional):

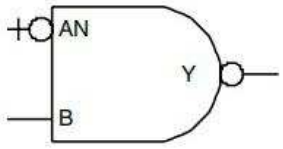
Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX12H7H	(AN * Y)	0.00223	0.00226	0.00227
	(AN * Y)	0.00008	0.00009	0.00009
	(AN * Y)	-0.00024	-0.00024	-0.00023
	(AN * Y)	-0.00059	-0.00059	-0.00058

NAND2BX16H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND2B cell provides the logical NAND of one inverted input (AN) and one non-inverted input (B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
AN	B	Y
x	0	1
0	1	0
1	1	1

Footprint

Cell Name	Area
NAND2BX16H7H	9.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	AN	B	Y
NAND2BX16H7H	0.00902	0.00949	0.33886

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND2BX16H7H	0.00000	0.26427	0.41442

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2BX16H7H	AN->Y (RR)	0.03572	0.16961	0.48692
	B->Y (FR)	0.01590	0.16832	0.66596

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2BX16H7H	AN->Y (FF)	0.04782	0.21926	0.63858
	B->Y (RF)	0.02014	0.19728	0.74558

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2BX16H7H	AN	0.00795	0.00852	0.00904
	AN	-0.00048	-0.00047	-0.00045
	AN	0.00056	0.00057	0.00057
	AN	0.01053	0.01110	0.01160
	B	0.00595	0.00664	0.00715
	B	-0.00082	-0.00081	-0.00080
	B	0.00031	0.00032	0.00036
	B	-0.00170	-0.00113	-0.00070

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2BX16H7H	AN	0.01047	0.01098	0.01140
	AN	0.00045	0.00047	0.00049
	AN	-0.00057	-0.00057	-0.00056
	AN	0.00817	0.00869	0.00918
	B	-0.00057	-0.00009	0.00026
	B	0.00080	0.00082	0.00083
	B	-0.00033	-0.00032	-0.00031
	B	0.00692	0.00770	0.00813

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX16H7H	(!B * Y)	0.00061	0.00087	0.00123
	(!B * Y)	0.00045	0.00046	0.00046
	(!B * Y)	-0.00055	-0.00051	-0.00047
	(!B * Y)	0.00822	0.00848	0.00884

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX16H7H	(!B * Y)	0.00773	0.00794	0.00823
	(!B * Y)	-0.00046	-0.00046	-0.00045
	(!B * Y)	0.00047	0.00051	0.00055
	(!B * Y)	0.00019	0.00040	0.00069

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX16H7H	(AN * Y)	-0.00303	-0.00301	-0.00300
	(AN * Y)	-0.00012	-0.00012	-0.00011
	(AN * Y)	0.00031	0.00033	0.00036
	(AN * Y)	0.00077	0.00079	0.00082

Passive power(pJ) for B falling (conditional):

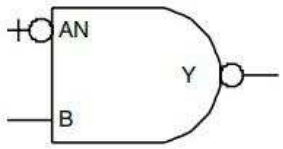
Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX16H7H	(AN * Y)	0.00300	0.00302	0.00303
	(AN * Y)	0.00011	0.00012	0.00013
	(AN * Y)	-0.00033	-0.00032	-0.00028
	(AN * Y)	-0.00080	-0.00078	-0.00077

NAND2BX1H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND2B cell provides the logical NAND of one inverted input (AN) and one non-inverted input (B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
AN	B	Y
x	0	1
0	1	0
1	1	1

Footprint

Cell Name	Area
NAND2BX1H7H	1.40000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	AN	B	Y
NAND2BX1H7H	0.00098	0.00105	0.03231

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND2BX1H7H	0.00000	0.01485	0.01569

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2BX1H7H	AN->Y (RR)	0.04825	0.18524	0.51172
	B->Y (FR)	0.02214	0.17552	0.66603

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2BX1H7H	AN->Y (FF)	0.06604	0.23962	0.66581
	B->Y (RF)	0.02813	0.20528	0.74421

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2BX1H7H	AN	0.00075	0.00081	0.00086
	AN	-0.00005	-0.00005	-0.00005
	AN	0.00006	0.00006	0.00006
	AN	0.00109	0.00114	0.00119
	B	0.00067	0.00073	0.00079
	B	-0.00007	-0.00007	-0.00007
	B	0.00003	0.00003	0.00003
	B	-0.00015	-0.00009	-0.00005

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2BX1H7H	AN	0.00107	0.00112	0.00116
	AN	0.00005	0.00005	0.00005
	AN	-0.00006	-0.00006	-0.00006
	AN	0.00076	0.00080	0.00085
	B	-0.00011	-0.00006	-0.00003
	B	0.00007	0.00007	0.00007
	B	-0.00003	-0.00003	-0.00002
	B	0.00069	0.00076	0.00081

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX1H7H	(!B * Y)	0.00006	0.00008	0.00011
	(!B * Y)	0.00003	0.00003	0.00003
	(!B * Y)	-0.00004	-0.00004	-0.00003
	(!B * Y)	0.00088	0.00090	0.00094

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX1H7H	(!B * Y)	0.00085	0.00088	0.00091
	(!B * Y)	-0.00003	-0.00003	-0.00003
	(!B * Y)	0.00003	0.00004	0.00004
	(!B * Y)	0.00004	0.00006	0.00009

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX1H7H	(AN * Y)	-0.00030	-0.00030	-0.00030
	(AN * Y)	-0.00001	-0.00001	-0.00001
	(AN * Y)	0.00003	0.00003	0.00004
	(AN * Y)	0.00013	0.00013	0.00013

Passive power(pJ) for B falling (conditional):

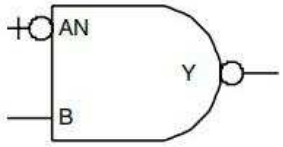
Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX1H7H	(AN * Y)	0.00030	0.00030	0.00030
	(AN * Y)	0.00001	0.00001	0.00001
	(AN * Y)	-0.00003	-0.00003	-0.00003
	(AN * Y)	-0.00013	-0.00013	-0.00013

NAND2BX1P4H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND2B cell provides the logical NAND of one inverted input (AN) and one non-inverted input (B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
AN	B	Y
x	0	1
0	1	0
1	1	1

Footprint

Cell Name	Area
NAND2BX1P4H7H	1.40000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	AN	B	Y
NAND2BX1P4H7H	0.00101	0.00111	0.03659

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND2BX1P4H7H	0.00000	0.01744	0.02051

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2BX1P4H7H	AN->Y (RR)	0.04763	0.18502	0.51239
	B->Y (FR)	0.02064	0.17366	0.66494

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2BX1P4H7H	AN->Y (FF)	0.06569	0.24073	0.67083
	B->Y (RF)	0.02632	0.20400	0.74565

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2BX1P4H7H	AN	0.00082	0.00088	0.00093
	AN	-0.00007	-0.00006	-0.00006
	AN	0.00007	0.00007	0.00007
	AN	0.00113	0.00119	0.00124
	B	0.00070	0.00078	0.00083
	B	-0.00008	-0.00008	-0.00008
	B	0.00002	0.00003	0.00004
	B	-0.00017	-0.00011	-0.00007

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2BX1P4H7H	AN	0.00110	0.00115	0.00120
	AN	0.00006	0.00006	0.00007
	AN	-0.00007	-0.00007	-0.00007
	AN	0.00082	0.00086	0.00092
	B	-0.00011	-0.00006	-0.00003
	B	0.00008	0.00008	0.00009
	B	-0.00003	-0.00003	-0.00002
	B	0.00075	0.00083	0.00087

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX1P4H7H	(!B * Y)	0.00008	0.00010	0.00014
	(!B * Y)	0.00003	0.00003	0.00003
	(!B * Y)	-0.00004	-0.00004	-0.00004
	(!B * Y)	0.00092	0.00094	0.00098

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX1P4H7H	(!B * Y)	0.00086	0.00089	0.00092
	(!B * Y)	-0.00003	-0.00003	-0.00003
	(!B * Y)	0.00004	0.00004	0.00004
	(!B * Y)	0.00003	0.00005	0.00009

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX1P4H7H	(AN * Y)	-0.00033	-0.00033	-0.00032
	(AN * Y)	-0.00001	-0.00001	-0.00001
	(AN * Y)	0.00004	0.00004	0.00004
	(AN * Y)	0.00013	0.00013	0.00013

Passive power(pJ) for B falling (conditional):

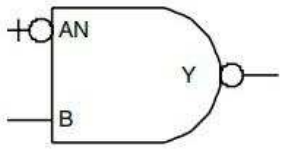
Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX1P4H7H	(AN * Y)	0.00032	0.00033	0.00033
	(AN * Y)	0.00001	0.00001	0.00001
	(AN * Y)	-0.00004	-0.00004	-0.00004
	(AN * Y)	-0.00013	-0.00013	-0.00013

NAND2BX2H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND2B cell provides the logical NAND of one inverted input (AN) and one non-inverted input (B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
AN	B	Y
x	0	1
0	1	0
1	1	1

Footprint

Cell Name	Area
NAND2BX2H7H	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	AN	B	Y
NAND2BX2H7H	0.00098	0.00172	0.05126

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND2BX2H7H	0.00000	0.01867	0.03237

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2BX2H7H	AN->Y (RR)	0.05954	0.21267	0.58088
	B->Y (FR)	0.02146	0.18152	0.68867

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2BX2H7H	AN->Y (FF)	0.08003	0.26562	0.72385
	B->Y (RF)	0.02593	0.20555	0.75247

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2BX2H7H	AN	0.00136	0.00144	0.00152
	AN	-0.00008	-0.00008	-0.00008
	AN	0.00007	0.00010	0.00010
	AN	0.00153	0.00162	0.00170
	B	0.00104	0.00117	0.00125
	B	-0.00010	-0.00010	-0.00010
	B	0.00002	0.00004	0.00006
	B	-0.00026	-0.00017	-0.00010

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2BX2H7H	AN	0.00158	0.00167	0.00174
	AN	0.00008	0.00008	0.00008
	AN	-0.00010	-0.00010	-0.00007
	AN	0.00144	0.00152	0.00160
	B	-0.00013	-0.00006	-0.00001
	B	0.00010	0.00010	0.00010
	B	-0.00004	-0.00004	-0.00002
	B	0.00116	0.00128	0.00135

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX2H7H	(!B * Y)	0.00023	0.00026	0.00029
	(!B * Y)	0.00004	0.00004	0.00004
	(!B * Y)	-0.00005	-0.00005	-0.00004
	(!B * Y)	0.00114	0.00117	0.00121

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX2H7H	(!B * Y)	0.00112	0.00115	0.00119
	(!B * Y)	-0.00004	-0.00004	-0.00004
	(!B * Y)	0.00004	0.00005	0.00005
	(!B * Y)	0.00022	0.00024	0.00029

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX2H7H	(AN * Y)	-0.00046	-0.00046	-0.00046
	(AN * Y)	-0.00002	-0.00002	-0.00002
	(AN * Y)	0.00005	0.00005	0.00005
	(AN * Y)	0.00027	0.00027	0.00027

Passive power(pJ) for B falling (conditional):

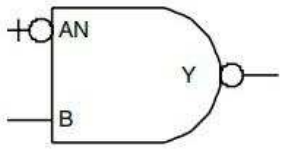
Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX2H7H	(AN * Y)	0.00046	0.00046	0.00046
	(AN * Y)	0.00002	0.00002	0.00002
	(AN * Y)	-0.00005	-0.00005	-0.00005
	(AN * Y)	-0.00027	-0.00027	-0.00027

NAND2BX3H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND2B cell provides the logical NAND of one inverted input (AN) and one non-inverted input (B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
AN	B	Y
x	0	1
0	1	0
1	1	1

Footprint

Cell Name	Area
NAND2BX3H7H	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	AN	B	Y
NAND2BX3H7H	0.00101	0.00196	0.06809

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND2BX3H7H	0.00000	0.02599	0.03108

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2BX3H7H	AN->Y (RR)	0.05915	0.20836	0.56604
	B->Y (FR)	0.01831	0.17168	0.66720

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2BX3H7H	AN->Y (FF)	0.08247	0.26851	0.72796
	B->Y (RF)	0.02270	0.19996	0.74403

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2BX3H7H	AN	0.00172	0.00182	0.00191
	AN	-0.00013	-0.00013	-0.00013
	AN	0.00015	0.00015	0.00015
	AN	0.00172	0.00182	0.00191
	B	0.00125	0.00140	0.00149
	B	-0.00015	-0.00015	-0.00014
	B	0.00004	0.00006	0.00007
	B	-0.00029	-0.00018	-0.00011

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2BX3H7H	AN	0.00171	0.00180	0.00189
	AN	0.00013	0.00013	0.00014
	AN	-0.00015	-0.00015	-0.00015
	AN	0.00175	0.00185	0.00194
	B	-0.00014	-0.00006	0.00001
	B	0.00015	0.00015	0.00015
	B	-0.00007	-0.00006	-0.00004
	B	0.00141	0.00153	0.00161

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX3H7H	(!B * Y)	0.00032	0.00035	0.00039
	(!B * Y)	0.00004	0.00004	0.00004
	(!B * Y)	-0.00006	-0.00006	-0.00005
	(!B * Y)	0.00126	0.00130	0.00134

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX3H7H	(!B * Y)	0.00116	0.00119	0.00122
	(!B * Y)	-0.00004	-0.00004	-0.00004
	(!B * Y)	0.00005	0.00006	0.00006
	(!B * Y)	0.00023	0.00026	0.00030

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX3H7H	(AN * Y)	-0.00057	-0.00057	-0.00056
	(AN * Y)	-0.00003	-0.00002	-0.00002
	(AN * Y)	0.00007	0.00007	0.00007
	(AN * Y)	0.00024	0.00024	0.00025

Passive power(pJ) for B falling (conditional):

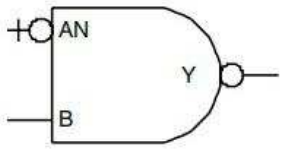
Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX3H7H	(AN * Y)	0.00057	0.00057	0.00057
	(AN * Y)	0.00002	0.00003	0.00003
	(AN * Y)	-0.00007	-0.00007	-0.00007
	(AN * Y)	-0.00024	-0.00024	-0.00024

NAND2BX4H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND2B cell provides the logical NAND of one inverted input (AN) and one non-inverted input (B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
AN	B	Y
x	0	1
0	1	0
1	1	1

Footprint

Cell Name	Area
NAND2BX4H7H	3.64000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	AN	B	Y
NAND2BX4H7H	0.00122	0.00343	0.10133

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND2BX4H7H	0.00000	0.03765	0.07417

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2BX4H7H	AN->Y (RR)	0.06305	0.22243	0.60705
	B->Y (FR)	0.01986	0.17857	0.68577

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2BX4H7H	AN->Y (FF)	0.08406	0.27455	0.74560
	B->Y (RF)	0.02383	0.20216	0.74768

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2BX4H7H	AN	0.00284	0.00300	0.00313
	AN	-0.00017	-0.00017	-0.00016
	AN	0.00020	0.00020	0.00021
	AN	0.00262	0.00279	0.00292
	B	0.00224	0.00241	0.00256
	B	-0.00020	-0.00020	-0.00018
	B	0.00006	0.00009	0.00012
	B	-0.00045	-0.00027	-0.00013

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2BX4H7H	AN	0.00275	0.00290	0.00303
	AN	0.00016	0.00017	0.00017
	AN	-0.00021	-0.00020	-0.00020
	AN	0.00303	0.00318	0.00331
	B	-0.00027	-0.00011	-0.00000
	B	0.00019	0.00020	0.00020
	B	-0.00009	-0.00008	-0.00006
	B	0.00230	0.00257	0.00271

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX4H7H	(!B * Y)	0.00053	0.00057	0.00061
	(!B * Y)	0.00007	0.00007	0.00007
	(!B * Y)	-0.00009	-0.00008	-0.00008
	(!B * Y)	0.00180	0.00184	0.00189

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX4H7H	(!B * Y)	0.00185	0.00188	0.00193
	(!B * Y)	-0.00007	-0.00007	-0.00007
	(!B * Y)	0.00008	0.00008	0.00009
	(!B * Y)	0.00059	0.00062	0.00068

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX4H7H	(AN * Y)	-0.00094	-0.00094	-0.00093
	(AN * Y)	-0.00004	-0.00004	-0.00004
	(AN * Y)	0.00010	0.00010	0.00010
	(AN * Y)	0.00050	0.00051	0.00051

Passive power(pJ) for B falling (conditional):

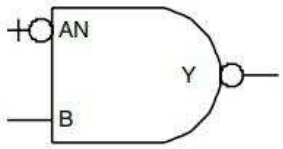
Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX4H7H	(AN * Y)	0.00094	0.00094	0.00095
	(AN * Y)	0.00004	0.00004	0.00004
	(AN * Y)	-0.00010	-0.00010	-0.00010
	(AN * Y)	-0.00051	-0.00050	-0.00050

NAND2BX6H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND2B cell provides the logical NAND of one inverted input (AN) and one non-inverted input (B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
AN	B	Y
x	0	1
0	1	0
1	1	1

Footprint

Cell Name	Area
NAND2BX6H7H	3.64000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	AN	B	Y
NAND2BX6H7H	0.00133	0.00357	0.12750

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND2BX6H7H	0.00000	0.06626	0.10622

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2BX6H7H	AN->Y (RR)	0.05495	0.20588	0.56693
	B->Y (FR)	0.01679	0.16980	0.66639

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2BX6H7H	AN->Y (FF)	0.07587	0.26424	0.72910
	B->Y (RF)	0.02116	0.19870	0.74581

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2BX6H7H	AN	0.00330	0.00347	0.00361
	AN	-0.00027	-0.00026	-0.00025
	AN	0.00029	0.00029	0.00029
	AN	0.00266	0.00284	0.00298
	B	0.00219	0.00253	0.00272
	B	-0.00031	-0.00030	-0.00029
	B	0.00011	0.00012	0.00014
	B	-0.00060	-0.00039	-0.00023

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2BX6H7H	AN	0.00275	0.00291	0.00304
	AN	0.00025	0.00026	0.00027
	AN	-0.00029	-0.00029	-0.00029
	AN	0.00348	0.00365	0.00378
	B	-0.00025	-0.00007	0.00006
	B	0.00030	0.00031	0.00032
	B	-0.00012	-0.00012	-0.00011
	B	0.00262	0.00286	0.00302

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX6H7H	(!B * Y)	0.00058	0.00062	0.00069
	(!B * Y)	0.00008	0.00009	0.00009
	(!B * Y)	-0.00012	-0.00011	-0.00010
	(!B * Y)	0.00182	0.00187	0.00193

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX6H7H	(!B * Y)	0.00179	0.00183	0.00188
	(!B * Y)	-0.00009	-0.00009	-0.00008
	(!B * Y)	0.00010	0.00011	0.00012
	(!B * Y)	0.00057	0.00061	0.00065

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX6H7H	(AN * Y)	-0.00113	-0.00112	-0.00111
	(AN * Y)	-0.00004	-0.00004	-0.00004
	(AN * Y)	0.00012	0.00013	0.00013
	(AN * Y)	0.00031	0.00031	0.00031

Passive power(pJ) for B falling (conditional):

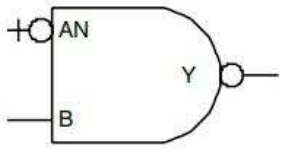
Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX6H7H	(AN * Y)	0.00112	0.00113	0.00113
	(AN * Y)	0.00004	0.00004	0.00005
	(AN * Y)	-0.00012	-0.00012	-0.00012
	(AN * Y)	-0.00031	-0.00031	-0.00030

NAND2BX8H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND2B cell provides the logical NAND of one inverted input (AN) and one non-inverted input (B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
AN	B	Y
x	0	1
0	1	0
1	1	1

Footprint

Cell Name	Area
NAND2BX8H7H	4.48000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	AN	B	Y
NAND2BX8H7H	0.00207	0.00474	0.17315

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND2BX8H7H	0.00000	0.09026	0.14064

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2BX8H7H	AN->Y (RR)	0.04821	0.19590	0.54762
	B->Y (FR)	0.01643	0.17118	0.67315

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2BX8H7H	AN->Y (FF)	0.06681	0.25231	0.70848
	B->Y (RF)	0.02072	0.20037	0.75444

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2BX8H7H	AN	0.00440	0.00464	0.00484
	AN	-0.00034	-0.00034	-0.00032
	AN	0.00037	0.00038	0.00046
	AN	0.00375	0.00400	0.00419
	B	0.00303	0.00335	0.00360
	B	-0.00042	-0.00041	-0.00040
	B	0.00015	0.00016	0.00018
	B	-0.00081	-0.00054	-0.00033

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2BX8H7H	AN	0.00388	0.00409	0.00427
	AN	0.00034	0.00034	0.00035
	AN	-0.00044	-0.00038	-0.00037
	AN	0.00466	0.00488	0.00506
	B	-0.00030	-0.00006	0.00011
	B	0.00040	0.00041	0.00042
	B	-0.00016	-0.00016	-0.00015
	B	0.00364	0.00383	0.00405

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX8H7H	(!B * Y)	0.00072	0.00079	0.00089
	(!B * Y)	0.00012	0.00013	0.00013
	(!B * Y)	-0.00017	-0.00016	-0.00014
	(!B * Y)	0.00258	0.00266	0.00276

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX8H7H	(!B * Y)	0.00256	0.00261	0.00268
	(!B * Y)	-0.00013	-0.00013	-0.00012
	(!B * Y)	0.00014	0.00016	0.00017
	(!B * Y)	0.00074	0.00079	0.00087

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX8H7H	(AN * Y)	-0.00151	-0.00150	-0.00148
	(AN * Y)	-0.00006	-0.00006	-0.00006
	(AN * Y)	0.00016	0.00016	0.00018
	(AN * Y)	0.00038	0.00040	0.00040

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX8H7H	(AN * Y)	0.00150	0.00151	0.00151
	(AN * Y)	0.00006	0.00006	0.00006
	(AN * Y)	-0.00016	-0.00016	-0.00015
	(AN * Y)	-0.00040	-0.00040	-0.00038

NAND2X0P5H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND2 cell provides the logical NAND of two inputs (A, B). The output (Y) is represented by the logic equation:

Truth Table

INPUT		OUTPUT
A	B	Y
0	x	1
1	0	1
1	1	0

Footprint

Cell Name	Area
NAND2X0P5H7H	1.12000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
NAND2X0P5H7H	0.00090	0.00086	0.02560

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND2X0P5H7H	0.00000	0.00646	0.01457

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2X0P5H7H	A->Y (FR)	0.02660	0.18721	0.68932
	B->Y (FR)	0.02887	0.19126	0.69214

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2X0P5H7H	A->Y (RF)	0.03277	0.21200	0.75409
	B->Y (RF)	0.03465	0.21534	0.74670

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2X0P5H7H	A	0.00062	0.00068	0.00072
	A	-0.00005	-0.00005	-0.00005
	A	0.00002	0.00002	0.00002
	A	-0.00014	-0.00009	-0.00006
	B	0.00071	0.00078	0.00081
	B	-0.00005	-0.00005	-0.00005
	B	0.00006	0.00006	0.00006
	B	-0.00017	-0.00014	-0.00012

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2X0P5H7H	A	-0.00012	-0.00008	-0.00005
	A	0.00005	0.00005	0.00005
	A	-0.00002	-0.00002	-0.00002
	A	0.00066	0.00069	0.00073
	B	-0.00010	-0.00007	-0.00005
	B	0.00005	0.00005	0.00005
	B	-0.00006	-0.00006	-0.00006
	B	0.00086	0.00088	0.00091

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X0P5H7H	(!B * Y)	-0.00025	-0.00025	-0.00025
	(!B * Y)	-0.00001	-0.00001	-0.00001
	(!B * Y)	0.00003	0.00003	0.00003
	(!B * Y)	0.00009	0.00009	0.00009

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X0P5H7H	(!B * Y)	0.00025	0.00025	0.00025
	(!B * Y)	0.00001	0.00001	0.00001
	(!B * Y)	-0.00002	-0.00002	-0.00002
	(!B * Y)	-0.00009	-0.00009	-0.00009

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X0P5H7H	(!A * Y)	-0.00017	-0.00017	-0.00017
	(!A * Y)	-0.00001	-0.00001	-0.00001
	(!A * Y)	0.00001	0.00001	0.00001
	(!A * Y)	0.00025	0.00025	0.00025

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X0P5H7H	(!A * Y)	0.00017	0.00017	0.00018
	(!A * Y)	0.00001	0.00001	0.00001
	(!A * Y)	-0.00001	-0.00001	-0.00001
	(!A * Y)	-0.00025	-0.00024	-0.00023

NAND2X0P7H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND2 cell provides the logical NAND of two inputs (A, B). The output (Y) is represented by the logic equation:

Truth Table

INPUT		OUTPUT
A	B	Y
0	x	1
1	0	1
1	1	0

Footprint

Cell Name	Area
NAND2X0P7H7H	1.12000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
NAND2X0P7H7H	0.00088	0.00095	0.02861

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND2X0P7H7H	0.00000	0.00722	0.01359

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2X0P7H7H	A->Y (FR)	0.02642	0.18701	0.68589
	B->Y (FR)	0.02440	0.18317	0.68373

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2X0P7H7H	A->Y (RF)	0.03210	0.21356	0.74861
	B->Y (RF)	0.03034	0.20917	0.75129

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2X0P7H7H	A	0.00074	0.00082	0.00085
	A	-0.00006	-0.00006	-0.00006
	A	0.00007	0.00007	0.00007
	A	-0.00019	-0.00015	-0.00013
	B	0.00065	0.00071	0.00075
	B	-0.00006	-0.00006	-0.00006
	B	0.00002	0.00003	0.00003
	B	-0.00016	-0.00011	-0.00007

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2X0P7H7H	A	-0.00011	-0.00008	-0.00006
	A	0.00006	0.00006	0.00006
	A	-0.00007	-0.00007	-0.00007
	A	0.00090	0.00093	0.00095
	B	-0.00013	-0.00009	-0.00006
	B	0.00006	0.00006	0.00006
	B	-0.00003	-0.00002	-0.00002
	B	0.00067	0.00073	0.00077

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X0P7H7H	(!B * Y)	-0.00018	-0.00017	-0.00017
	(!B * Y)	-0.00001	-0.00001	-0.00001
	(!B * Y)	0.00001	0.00001	0.00001
	(!B * Y)	0.00026	0.00026	0.00026

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X0P7H7H	(!B * Y)	0.00018	0.00018	0.00018
	(!B * Y)	0.00001	0.00001	0.00001
	(!B * Y)	-0.00001	-0.00001	-0.00001
	(!B * Y)	-0.00025	-0.00024	-0.00023

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X0P7H7H	(!A * Y)	-0.00027	-0.00027	-0.00027
	(!A * Y)	-0.00001	-0.00001	-0.00001
	(!A * Y)	0.00003	0.00003	0.00003
	(!A * Y)	0.00009	0.00009	0.00009

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X0P7H7H	(!A * Y)	0.00027	0.00027	0.00027
	(!A * Y)	0.00001	0.00001	0.00001
	(!A * Y)	-0.00003	-0.00003	-0.00003
	(!A * Y)	-0.00009	-0.00009	-0.00009

NAND2X12H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND2 cell provides the logical NAND of two inputs (A, B). The output (Y) is represented by the logic equation:

Truth Table

INPUT		OUTPUT
A	B	Y
0	x	1
1	0	1
1	1	0

Footprint

Cell Name	Area
NAND2X12H7H	5.32000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
NAND2X12H7H	0.00680	0.00651	0.25558

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND2X12H7H	0.00000	0.09994	0.16324

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2X12H7H	A->Y (FR)	0.01504	0.16744	0.66649
	B->Y (FR)	0.01799	0.17321	0.67050

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2X12H7H	A->Y (RF)	0.01880	0.19560	0.74611
	B->Y (RF)	0.02260	0.20422	0.75077

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2X12H7H	A	0.00455	0.00519	0.00555
	A	-0.00062	-0.00061	-0.00060
	A	0.00023	0.00024	0.00026
	A	-0.00145	-0.00104	-0.00074
	B	0.00597	0.00661	0.00684
	B	-0.00062	-0.00061	-0.00060
	B	0.00066	0.00066	0.00067
	B	-0.00139	-0.00112	-0.00093

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2X12H7H	A	-0.00117	-0.00083	-0.00060
	A	0.00060	0.00061	0.00062
	A	-0.00025	-0.00024	-0.00023
	A	0.00501	0.00542	0.00572
	B	-0.00101	-0.00076	-0.00059
	B	0.00060	0.00061	0.00063
	B	-0.00067	-0.00066	-0.00066
	B	0.00713	0.00734	0.00754

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X12H7H	(!B * Y)	-0.00215	-0.00214	-0.00213
	(!B * Y)	-0.00009	-0.00009	-0.00008
	(!B * Y)	0.00025	0.00025	0.00026
	(!B * Y)	0.00039	0.00039	0.00040

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X12H7H	(!B * Y)	0.00213	0.00214	0.00216
	(!B * Y)	0.00008	0.00009	0.00009
	(!B * Y)	-0.00024	-0.00024	-0.00024
	(!B * Y)	-0.00039	-0.00039	-0.00039

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X12H7H	(!A * Y)	-0.00144	-0.00143	-0.00143
	(!A * Y)	-0.00009	-0.00009	-0.00008
	(!A * Y)	0.00013	0.00014	0.00014
	(!A * Y)	0.00168	0.00168	0.00169

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X12H7H	(!A * Y)	0.00144	0.00147	0.00153
	(!A * Y)	0.00009	0.00009	0.00009
	(!A * Y)	-0.00014	-0.00014	-0.00013
	(!A * Y)	-0.00166	-0.00156	-0.00142

NAND2X16H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND2 cell provides the logical NAND of two inputs (A, B). The output (Y) is represented by the logic equation:

Truth Table

INPUT		OUTPUT
A	B	Y
0	x	1
1	0	1
1	1	0

Footprint

Cell Name	Area
NAND2X16H7H	6.72000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
NAND2X16H7H	0.00908	0.00874	0.34001

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND2X16H7H	0.00000	0.13325	0.21765

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2X16H7H	A->Y (FR)	0.01490	0.16709	0.66629
	B->Y (FR)	0.01787	0.17292	0.67032

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2X16H7H	A->Y (RF)	0.01867	0.19545	0.74649
	B->Y (RF)	0.02246	0.20401	0.75050

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2X16H7H	A	0.00628	0.00698	0.00744
	A	-0.00083	-0.00082	-0.00079
	A	0.00031	0.00032	0.00036
	A	-0.00192	-0.00138	-0.00097
	B	0.00816	0.00885	0.00918
	B	-0.00082	-0.00082	-0.00070
	B	0.00088	0.00089	0.00091
	B	-0.00187	-0.00150	-0.00124

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2X16H7H	A	-0.00157	-0.00112	-0.00080
	A	0.00080	0.00082	0.00083
	A	-0.00033	-0.00032	-0.00030
	A	0.00679	0.00725	0.00765
	B	-0.00136	-0.00102	-0.00079
	B	0.00081	0.00082	0.00084
	B	-0.00091	-0.00089	-0.00088
	B	0.00946	0.00984	0.01010

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X16H7H	(!B * Y)	-0.00287	-0.00286	-0.00283
	(!B * Y)	-0.00012	-0.00012	-0.00011
	(!B * Y)	0.00033	0.00033	0.00034
	(!B * Y)	0.00050	0.00051	0.00052

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X16H7H	(!B * Y)	0.00285	0.00287	0.00288
	(!B * Y)	0.00011	0.00012	0.00012
	(!B * Y)	-0.00032	-0.00032	-0.00031
	(!B * Y)	-0.00051	-0.00051	-0.00050

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X16H7H	(!A * Y)	-0.00193	-0.00192	-0.00190
	(!A * Y)	-0.00012	-0.00012	-0.00011
	(!A * Y)	0.00018	0.00018	0.00018
	(!A * Y)	0.00222	0.00224	0.00225

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X16H7H	(!A * Y)	0.00193	0.00197	0.00206
	(!A * Y)	0.00012	0.00012	0.00013
	(!A * Y)	-0.00018	-0.00018	-0.00018
	(!A * Y)	-0.00222	-0.00208	-0.00189

NAND2X1H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND2 cell provides the logical NAND of two inputs (A, B). The output (Y) is represented by the logic equation:

Truth Table

INPUT		OUTPUT
A	B	Y
0	x	1
1	0	1
1	1	0

Footprint

Cell Name	Area
NAND2X1H7H	1.12000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
NAND2X1H7H	0.00095	0.00101	0.03235

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND2X1H7H	0.00000	0.00909	0.01245

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2X1H7H	A->Y (FR)	0.02396	0.17917	0.66792
	B->Y (FR)	0.02202	0.17543	0.66615

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2X1H7H	A->Y (RF)	0.03007	0.21061	0.74673
	B->Y (RF)	0.02806	0.20505	0.74406

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2X1H7H	A	0.00080	0.00089	0.00092
	A	-0.00007	-0.00007	-0.00007
	A	0.00008	0.00008	0.00008
	A	-0.00020	-0.00017	-0.00015
	B	0.00071	0.00077	0.00082
	B	-0.00007	-0.00007	-0.00007
	B	0.00002	0.00003	0.00003
	B	-0.00018	-0.00012	-0.00008

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2X1H7H	A	-0.00013	-0.00010	-0.00007
	A	0.00007	0.00007	0.00007
	A	-0.00008	-0.00008	-0.00008
	A	0.00098	0.00101	0.00103
	B	-0.00015	-0.00011	-0.00007
	B	0.00007	0.00007	0.00007
	B	-0.00003	-0.00003	-0.00002
	B	0.00071	0.00079	0.00083

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X1H7H	(!B * Y)	-0.00020	-0.00020	-0.00020
	(!B * Y)	-0.00001	-0.00001	-0.00001
	(!B * Y)	0.00002	0.00002	0.00002
	(!B * Y)	0.00027	0.00027	0.00027

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X1H7H	(!B * Y)	0.00020	0.00020	0.00021
	(!B * Y)	0.00001	0.00001	0.00001
	(!B * Y)	-0.00002	-0.00002	-0.00002
	(!B * Y)	-0.00027	-0.00025	-0.00024

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X1H7H	(!A * Y)	-0.00030	-0.00030	-0.00029
	(!A * Y)	-0.00001	-0.00001	-0.00001
	(!A * Y)	0.00003	0.00003	0.00003
	(!A * Y)	0.00008	0.00008	0.00008

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X1H7H	(!A * Y)	0.00029	0.00030	0.00030
	(!A * Y)	0.00001	0.00001	0.00001
	(!A * Y)	-0.00003	-0.00003	-0.00003
	(!A * Y)	-0.00008	-0.00008	-0.00008

NAND2X1P4H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND2 cell provides the logical NAND of two inputs (A, B). The output (Y) is represented by the logic equation:

Truth Table

INPUT		OUTPUT
A	B	Y
0	x	1
1	0	1
1	1	0

Footprint

Cell Name	Area
NAND2X1P4H7H	1.12000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
NAND2X1P4H7H	0.00104	0.00109	0.03656

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND2X1P4H7H	0.00000	0.01168	0.01726

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2X1P4H7H	A->Y (FR)	0.02262	0.17728	0.66629
	B->Y (FR)	0.02053	0.17339	0.66529

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2X1P4H7H	A->Y (RF)	0.02865	0.20981	0.74931
	B->Y (RF)	0.02625	0.20349	0.74466

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2X1P4H7H	A	0.00086	0.00097	0.00101
	A	-0.00008	-0.00008	-0.00008
	A	0.00009	0.00009	0.00009
	A	-0.00024	-0.00020	-0.00017
	B	0.00078	0.00082	0.00087
	B	-0.00009	-0.00008	-0.00008
	B	0.00003	0.00003	0.00003
	B	-0.00021	-0.00015	-0.00011

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2X1P4H7H	A	-0.00015	-0.00011	-0.00008
	A	0.00008	0.00009	0.00009
	A	-0.00009	-0.00009	-0.00009
	A	0.00107	0.00110	0.00113
	B	-0.00017	-0.00012	-0.00008
	B	0.00008	0.00008	0.00009
	B	-0.00003	-0.00003	-0.00003
	B	0.00077	0.00085	0.00090

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X1P4H7H	(!B * Y)	-0.00023	-0.00023	-0.00022
	(!B * Y)	-0.00001	-0.00001	-0.00001
	(!B * Y)	0.00002	0.00002	0.00002
	(!B * Y)	0.00028	0.00028	0.00028

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X1P4H7H	(!B * Y)	0.00023	0.00023	0.00024
	(!B * Y)	0.00001	0.00001	0.00001
	(!B * Y)	-0.00002	-0.00002	-0.00002
	(!B * Y)	-0.00028	-0.00026	-0.00025

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X1P4H7H	(!A * Y)	-0.00033	-0.00032	-0.00032
	(!A * Y)	-0.00001	-0.00001	-0.00001
	(!A * Y)	0.00004	0.00004	0.00004
	(!A * Y)	0.00008	0.00008	0.00008

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X1P4H7H	(!A * Y)	0.00032	0.00032	0.00033
	(!A * Y)	0.00001	0.00001	0.00001
	(!A * Y)	-0.00004	-0.00003	-0.00003
	(!A * Y)	-0.00008	-0.00008	-0.00008

NAND2X2H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND2 cell provides the logical NAND of two inputs (A, B). The output (Y) is represented by the logic equation:

Truth Table

INPUT		OUTPUT
A	B	Y
0	x	1
1	0	1
1	1	0

Footprint

Cell Name	Area
NAND2X2H7H	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
NAND2X2H7H	0.00163	0.00173	0.05077

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND2X2H7H	0.00000	0.01301	0.02913

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2X2H7H	A->Y (FR)	0.02573	0.18759	0.69035
	B->Y (FR)	0.02204	0.18117	0.68607

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2X2H7H	A->Y (RF)	0.03071	0.21161	0.74577
	B->Y (RF)	0.02686	0.20495	0.74990

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2X2H7H	A	0.00146	0.00161	0.00167
	A	-0.00010	-0.00010	-0.00009
	A	0.00012	0.00012	0.00012
	A	-0.00029	-0.00022	-0.00017
	B	0.00118	0.00130	0.00138
	B	-0.00010	-0.00010	-0.00009
	B	0.00004	0.00004	0.00005
	B	-0.00030	-0.00021	-0.00013

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2X2H7H	A	-0.00020	-0.00014	-0.00011
	A	0.00009	0.00010	0.00010
	A	-0.00012	-0.00012	-0.00012
	A	0.00171	0.00176	0.00181
	B	-0.00024	-0.00016	-0.00011
	B	0.00010	0.00010	0.00010
	B	-0.00004	-0.00004	-0.00004
	B	0.00124	0.00134	0.00142

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X2H7H	(!B * Y)	-0.00032	-0.00032	-0.00031
	(!B * Y)	-0.00002	-0.00002	-0.00002
	(!B * Y)	0.00002	0.00003	0.00003
	(!B * Y)	0.00045	0.00045	0.00045

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X2H7H	(!B * Y)	0.00032	0.00032	0.00034
	(!B * Y)	0.00002	0.00002	0.00002
	(!B * Y)	-0.00003	-0.00003	-0.00002
	(!B * Y)	-0.00045	-0.00043	-0.00039

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X2H7H	(!A * Y)	-0.00051	-0.00050	-0.00050
	(!A * Y)	-0.00002	-0.00002	-0.00002
	(!A * Y)	0.00004	0.00004	0.00004
	(!A * Y)	0.00015	0.00015	0.00016

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X2H7H	(!A * Y)	0.00050	0.00051	0.00051
	(!A * Y)	0.00002	0.00002	0.00002
	(!A * Y)	-0.00004	-0.00004	-0.00004
	(!A * Y)	-0.00015	-0.00015	-0.00015

NAND2X3H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND2 cell provides the logical NAND of two inputs (A, B). The output (Y) is represented by the logic equation:

Truth Table

INPUT		OUTPUT
A	B	Y
0	x	1
1	0	1
1	1	0

Footprint

Cell Name	Area
NAND2X3H7H	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
NAND2X3H7H	0.00191	0.00197	0.06810

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND2X3H7H	0.00000	0.02037	0.02783

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2X3H7H	A->Y (FR)	0.02118	0.17704	0.67076
	B->Y (FR)	0.01807	0.17122	0.66695

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2X3H7H	A->Y (RF)	0.02651	0.20791	0.74937
	B->Y (RF)	0.02253	0.19925	0.74365

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2X3H7H	A	0.00169	0.00189	0.00196
	A	-0.00015	-0.00015	-0.00015
	A	0.00017	0.00017	0.00017
	A	-0.00037	-0.00029	-0.00023
	B	0.00132	0.00150	0.00159
	B	-0.00016	-0.00015	-0.00014
	B	0.00005	0.00006	0.00008
	B	-0.00038	-0.00026	-0.00018

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2X3H7H	A	-0.00027	-0.00020	-0.00015
	A	0.00015	0.00015	0.00016
	A	-0.00017	-0.00017	-0.00017
	A	0.00201	0.00209	0.00214
	B	-0.00031	-0.00022	-0.00015
	B	0.00014	0.00015	0.00016
	B	-0.00006	-0.00006	-0.00005
	B	0.00137	0.00154	0.00163

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X3H7H	(!B * Y)	-0.00039	-0.00039	-0.00039
	(!B * Y)	-0.00003	-0.00002	-0.00002
	(!B * Y)	0.00003	0.00003	0.00004
	(!B * Y)	0.00051	0.00051	0.00051

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X3H7H	(!B * Y)	0.00040	0.00040	0.00042
	(!B * Y)	0.00002	0.00003	0.00003
	(!B * Y)	-0.00004	-0.00003	-0.00003
	(!B * Y)	-0.00051	-0.00048	-0.00044

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X3H7H	(!A * Y)	-0.00060	-0.00060	-0.00059
	(!A * Y)	-0.00002	-0.00002	-0.00002
	(!A * Y)	0.00006	0.00006	0.00006
	(!A * Y)	0.00014	0.00014	0.00015

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X3H7H	(!A * Y)	0.00060	0.00060	0.00060
	(!A * Y)	0.00002	0.00002	0.00002
	(!A * Y)	-0.00006	-0.00006	-0.00006
	(!A * Y)	-0.00014	-0.00014	-0.00014

NAND2X4H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND2 cell provides the logical NAND of two inputs (A, B). The output (Y) is represented by the logic equation:

Truth Table

INPUT		OUTPUT
A	B	Y
0	x	1
1	0	1
1	1	0

Footprint

Cell Name	Area
NAND2X4H7H	3.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
NAND2X4H7H	0.00327	0.00332	0.10111

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND2X4H7H	0.00000	0.02601	0.05826

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2X4H7H	A->Y (FR)	0.02385	0.18516	0.68927
	B->Y (FR)	0.01973	0.17801	0.68498

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2X4H7H	A->Y (RF)	0.02844	0.20941	0.74547
	B->Y (RF)	0.02405	0.20193	0.74962

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2X4H7H	A	0.00294	0.00322	0.00336
	A	-0.00020	-0.00020	-0.00020
	A	0.00023	0.00023	0.00024
	A	-0.00058	-0.00044	-0.00034
	B	0.00237	0.00254	0.00272
	B	-0.00020	-0.00020	-0.00019
	B	0.00008	0.00009	0.00009
	B	-0.00057	-0.00038	-0.00023

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2X4H7H	A	-0.00040	-0.00029	-0.00021
	A	0.00020	0.00020	0.00021
	A	-0.00024	-0.00023	-0.00023
	A	0.00345	0.00355	0.00363
	B	-0.00048	-0.00032	-0.00021
	B	0.00019	0.00020	0.00020
	B	-0.00009	-0.00009	-0.00008
	B	0.00239	0.00260	0.00274

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X4H7H	(!B * Y)	-0.00061	-0.00060	-0.00060
	(!B * Y)	-0.00004	-0.00004	-0.00004
	(!B * Y)	0.00005	0.00005	0.00005
	(!B * Y)	0.00093	0.00094	0.00094

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X4H7H	(!B * Y)	0.00061	0.00063	0.00067
	(!B * Y)	0.00004	0.00004	0.00004
	(!B * Y)	-0.00005	-0.00005	-0.00005
	(!B * Y)	-0.00094	-0.00088	-0.00080

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X4H7H	(!A * Y)	-0.00100	-0.00099	-0.00099
	(!A * Y)	-0.00004	-0.00004	-0.00004
	(!A * Y)	0.00008	0.00008	0.00008
	(!A * Y)	0.00027	0.00028	0.00028

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X4H7H	(!A * Y)	0.00099	0.00100	0.00100
	(!A * Y)	0.00004	0.00004	0.00004
	(!A * Y)	-0.00008	-0.00008	-0.00008
	(!A * Y)	-0.00028	-0.00027	-0.00027

NAND2X6H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND2 cell provides the logical NAND of two inputs (A, B). The output (Y) is represented by the logic equation:

Truth Table

INPUT		OUTPUT
A	B	Y
0	x	1
1	0	1
1	1	0

Footprint

Cell Name	Area
NAND2X6H7H	3.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
NAND2X6H7H	0.00342	0.00325	0.12811

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND2X6H7H	0.00000	0.04970	0.08162

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2X6H7H	A->Y (FR)	0.01587	0.16875	0.66780
	B->Y (FR)	0.01865	0.17416	0.67101

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2X6H7H	A->Y (RF)	0.01987	0.19684	0.74709
	B->Y (RF)	0.02337	0.20508	0.75094

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2X6H7H	A	0.00238	0.00262	0.00279
	A	-0.00031	-0.00031	-0.00030
	A	0.00009	0.00012	0.00013
	A	-0.00067	-0.00047	-0.00032
	B	0.00297	0.00329	0.00342
	B	-0.00031	-0.00031	-0.00030
	B	0.00033	0.00033	0.00033
	B	-0.00067	-0.00054	-0.00044

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2X6H7H	A	-0.00058	-0.00041	-0.00030
	A	0.00030	0.00031	0.00031
	A	-0.00012	-0.00012	-0.00009
	A	0.00252	0.00268	0.00283
	B	-0.00050	-0.00038	-0.00030
	B	0.00030	0.00031	0.00031
	B	-0.00033	-0.00033	-0.00033
	B	0.00346	0.00363	0.00373

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X6H7H	(!B * Y)	-0.00107	-0.00107	-0.00105
	(!B * Y)	-0.00004	-0.00004	-0.00004
	(!B * Y)	0.00013	0.00013	0.00013
	(!B * Y)	0.00018	0.00018	0.00018

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X6H7H	(!B * Y)	0.00106	0.00107	0.00108
	(!B * Y)	0.00004	0.00004	0.00004
	(!B * Y)	-0.00012	-0.00012	-0.00012
	(!B * Y)	-0.00018	-0.00018	-0.00018

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X6H7H	(!A * Y)	-0.00070	-0.00070	-0.00070
	(!A * Y)	-0.00005	-0.00004	-0.00004
	(!A * Y)	0.00007	0.00007	0.00007
	(!A * Y)	0.00083	0.00084	0.00084

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X6H7H	(!A * Y)	0.00071	0.00072	0.00075
	(!A * Y)	0.00004	0.00004	0.00005
	(!A * Y)	-0.00007	-0.00007	-0.00007
	(!A * Y)	-0.00082	-0.00077	-0.00070

NAND2X8H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND2 cell provides the logical NAND of two inputs (A, B). The output (Y) is represented by the logic equation:

Truth Table

INPUT		OUTPUT
A	B	Y
0	x	1
1	0	1
1	1	0

Footprint

Cell Name	Area
NAND2X8H7H	3.92000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
NAND2X8H7H	0.00455	0.00435	0.17085

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND2X8H7H	0.00000	0.06663	0.10882

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2X8H7H	A->Y (FR)	0.01555	0.16841	0.66769
	B->Y (FR)	0.01847	0.17408	0.67136

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2X8H7H	A->Y (RF)	0.01941	0.19639	0.74697
	B->Y (RF)	0.02319	0.20496	0.75131

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2X8H7H	A	0.00311	0.00351	0.00374
	A	-0.00042	-0.00041	-0.00039
	A	0.00015	0.00016	0.00017
	A	-0.00091	-0.00064	-0.00044
	B	0.00401	0.00445	0.00462
	B	-0.00041	-0.00041	-0.00040
	B	0.00044	0.00044	0.00045
	B	-0.00087	-0.00069	-0.00056

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2X8H7H	A	-0.00078	-0.00056	-0.00040
	A	0.00040	0.00041	0.00042
	A	-0.00016	-0.00016	-0.00015
	A	0.00343	0.00361	0.00381
	B	-0.00067	-0.00051	-0.00040
	B	0.00040	0.00041	0.00042
	B	-0.00045	-0.00044	-0.00044
	B	0.00472	0.00488	0.00502

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X8H7H	(!B * Y)	-0.00144	-0.00143	-0.00142
	(!B * Y)	-0.00006	-0.00006	-0.00005
	(!B * Y)	0.00016	0.00016	0.00017
	(!B * Y)	0.00024	0.00025	0.00025

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X8H7H	(!B * Y)	0.00142	0.00144	0.00145
	(!B * Y)	0.00006	0.00006	0.00006
	(!B * Y)	-0.00016	-0.00016	-0.00015
	(!B * Y)	-0.00025	-0.00025	-0.00024

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X8H7H	(!A * Y)	-0.00096	-0.00096	-0.00095
	(!A * Y)	-0.00006	-0.00006	-0.00005
	(!A * Y)	0.00009	0.00009	0.00009
	(!A * Y)	0.00111	0.00111	0.00111

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X8H7H	(!A * Y)	0.00096	0.00098	0.00102
	(!A * Y)	0.00006	0.00006	0.00006
	(!A * Y)	-0.00009	-0.00009	-0.00009
	(!A * Y)	-0.00110	-0.00103	-0.00093

NAND3BBX0P5H7H

Cell Description

3-Input NAND with 2 Inverted Inputs

NAND3BB, In: AN, BN, C, Out: Y

Truth Table

INPUT			OUTPUT
AN	BN	C	Y
0	x	0	1
0	0	1	0
x	1	1	1
1	x	x	1

Footprint

Cell Name	Area
NAND3BBX0P5H7H	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	AN	BN	C	Y
NAND3BBX0P5H7H	0.00100	0.00087	0.00089	0.01719

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND3BBX0P5H7H	0.00000	0.01755	0.02833

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3BBX0P5H7H	AN->Y (RR)	0.05687	0.16771	0.42383
	BN->Y (RR)	0.05937	0.17226	0.43397
	C->Y (FR)	0.02945	0.15748	0.57550

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3BBX0P5H7H	AN->Y (FF)	0.09198	0.26188	0.67802
	BN->Y (FF)	0.09514	0.26828	0.69258
	C->Y (RF)	0.05105	0.22640	0.74299

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3BBX0P5H7H	AN	0.00070	0.00074	0.00079
	AN	-0.00006	-0.00006	-0.00006
	AN	0.00007	0.00007	0.00007
	AN	0.00105	0.00109	0.00114
	BN	0.00085	0.00091	0.00096
	BN	-0.00006	-0.00006	-0.00006
	BN	0.00004	0.00004	0.00004
	BN	0.00120	0.00126	0.00131
	C	0.00062	0.00066	0.00070
	C	-0.00008	-0.00008	-0.00008
	C	0.00001	0.00002	0.00010
	C	-0.00012	-0.00006	-0.00003

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3BBX0P5H7H	AN	0.00127	0.00131	0.00136
	AN	0.00006	0.00006	0.00006
	AN	-0.00007	-0.00007	-0.00007
	AN	0.00094	0.00098	0.00103
	BN	0.00120	0.00124	0.00129
	BN	0.00006	0.00006	0.00006
	BN	-0.00004	-0.00004	-0.00004
	BN	0.00086	0.00091	0.00096
	C	0.00007	0.00011	0.00013
	C	0.00008	0.00008	0.00008
	C	-0.00002	-0.00002	-0.00001
	C	0.00078	0.00083	0.00087

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX0P5H7H	(BN * C * Y) + (!BN * !C * Y)	0.00002	0.00004	0.00007
	(BN * C * Y) + (!BN * !C * Y)	0.00003	0.00003	0.00003
	(BN * C * Y) + (!BN * !C * Y)	-0.00003	-0.00003	-0.00003
	(BN * C * Y) + (!BN * !C * Y)	0.00080	0.00082	0.00085
	(BN * !C * Y)	0.00002	0.00004	0.00007
	(BN * !C * Y)	0.00003	0.00003	0.00003
	(BN * !C * Y)	-0.00004	-0.00003	-0.00003
	(BN * !C * Y)	0.00080	0.00082	0.00085

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX0P5H7H	(BN * C * Y) + (!BN * !C * Y)	0.00082	0.00085	0.00088
	(BN * C * Y) + (!BN * !C * Y)	-0.00003	-0.00003	-0.00003
	(BN * C * Y) + (!BN * !C * Y)	0.00003	0.00003	0.00003
	(BN * C * Y) + (!BN * !C * Y)	0.00005	0.00007	0.00011
	(BN * !C * Y)	0.00082	0.00085	0.00088
	(BN * !C * Y)	-0.00003	-0.00003	-0.00003
	(BN * !C * Y)	0.00003	0.00003	0.00004
	(BN * !C * Y)	0.00004	0.00007	0.00011

Passive power(pJ) for BN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX0P5H7H	(AN * Y) + (!AN * !C * Y)	0.00013	0.00014	0.00016
	(AN * Y) + (!AN * !C * Y)	0.00003	0.00003	0.00003
	(AN * Y) + (!AN * !C * Y)	-0.00006	-0.00006	-0.00006
	(AN * Y) + (!AN * !C * Y)	0.00092	0.00094	0.00095

Passive power(pJ) for BN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX0P5H7H	(AN * Y) + (!AN * !C * Y)	0.00075	0.00077	0.00079
	(AN * Y) + (!AN * !C * Y)	-0.00003	-0.00003	-0.00003
	(AN * Y) + (!AN * !C * Y)	0.00006	0.00006	0.00006
	(AN * Y) + (!AN * !C * Y)	-0.00004	-0.00002	-0.00000

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX0P5H7H	(BN * Y)	-0.00024	-0.00024	-0.00023
	(BN * Y)	-0.00001	-0.00001	-0.00001
	(BN * Y)	0.00002	0.00003	0.00003
	(BN * Y)	0.00014	0.00014	0.00014
	(AN * !BN * Y)	-0.00032	-0.00032	-0.00031
	(AN * !BN * Y)	-0.00001	-0.00001	-0.00001
	(AN * !BN * Y)	0.00002	0.00003	0.00004
	(AN * !BN * Y)	0.00007	0.00007	0.00007

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX0P5H7H	(BN * Y)	0.00023	0.00024	0.00024
	(BN * Y)	0.00001	0.00001	0.00001
	(BN * Y)	-0.00002	-0.00003	-0.00002
	(BN * Y)	-0.00014	-0.00014	-0.00014
	(AN * !BN * Y)	0.00031	0.00032	0.00032
	(AN * !BN * Y)	0.00001	0.00001	0.00001
	(AN * !BN * Y)	-0.00002	-0.00002	-0.00002
	(AN * !BN * Y)	-0.00007	-0.00007	-0.00007

NAND3BBX0P7H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

3-Input NAND with 2 Inverted Inputs

NAND3BB, In: AN, BN, C, Out: Y

Truth Table

INPUT			OUTPUT
AN	BN	C	Y
0	x	0	1
0	0	1	0
x	1	1	1
1	x	x	1

Footprint

Cell Name	Area
NAND3BBX0P7H7H	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	AN	BN	C	Y
NAND3BBX0P7H7H	0.00101	0.00087	0.00096	0.01914

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND3BBX0P7H7H	0.00000	0.01817	0.02686

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3BBX0P7H7H	AN->Y (RR)	0.05503	0.16541	0.42042
	BN->Y (RR)	0.05725	0.16953	0.42957
	C->Y (FR)	0.02742	0.15388	0.57015

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3BBX0P7H7H	AN->Y (FF)	0.09030	0.26159	0.68131
	BN->Y (FF)	0.09242	0.26678	0.69444
	C->Y (RF)	0.04824	0.22340	0.74149

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3BBX0P7H7H	AN	0.00076	0.00081	0.00085
	AN	-0.00007	-0.00007	-0.00007
	AN	0.00008	0.00009	0.00009
	AN	0.00107	0.00111	0.00116
	BN	0.00090	0.00097	0.00102
	BN	-0.00007	-0.00007	-0.00007
	BN	0.00005	0.00005	0.00005
	BN	0.00122	0.00128	0.00133
	C	0.00067	0.00071	0.00075
	C	-0.00009	-0.00009	-0.00009
	C	0.00001	0.00003	0.00008
	C	-0.00013	-0.00008	-0.00004

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3BBX0P7H7H	AN	0.00130	0.00134	0.00139
	AN	0.00007	0.00007	0.00008
	AN	-0.00009	-0.00009	-0.00008
	AN	0.00103	0.00107	0.00111
	BN	0.00122	0.00127	0.00132
	BN	0.00007	0.00007	0.00007
	BN	-0.00005	-0.00005	-0.00005
	BN	0.00092	0.00097	0.00102
	C	0.00007	0.00010	0.00013
	C	0.00009	0.00009	0.00009
	C	-0.00003	-0.00002	-0.00001
	C	0.00086	0.00089	0.00093

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX0P7H7H	(BN * C * Y) + (!BN * !C * Y)	0.00003	0.00005	0.00008
	(BN * C * Y) + (!BN * !C * Y)	0.00003	0.00003	0.00003
	(BN * C * Y) + (!BN * !C * Y)	-0.00004	-0.00003	-0.00003
	(BN * C * Y) + (!BN * !C * Y)	0.00082	0.00084	0.00088
	(BN * !C * Y)	0.00003	0.00005	0.00008
	(BN * !C * Y)	0.00003	0.00003	0.00003
	(BN * !C * Y)	-0.00004	-0.00004	-0.00003
	(BN * !C * Y)	0.00082	0.00084	0.00087

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX0P7H7H	(BN * C * Y) + (!BN * !C * Y)	0.00084	0.00086	0.00089
	(BN * C * Y) + (!BN * !C * Y)	-0.00003	-0.00003	-0.00003
	(BN * C * Y) + (!BN * !C * Y)	0.00003	0.00003	0.00004
	(BN * C * Y) + (!BN * !C * Y)	0.00005	0.00008	0.00011
	(BN * !C * Y)	0.00084	0.00086	0.00089
	(BN * !C * Y)	-0.00003	-0.00003	-0.00003
	(BN * !C * Y)	0.00003	0.00004	0.00004
	(BN * !C * Y)	0.00005	0.00007	0.00010

Passive power(pJ) for BN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX0P7H7H	(AN * Y) + (!AN * !C * Y)	0.00013	0.00015	0.00018
	(AN * Y) + (!AN * !C * Y)	0.00003	0.00003	0.00003
	(AN * Y) + (!AN * !C * Y)	-0.00007	-0.00007	-0.00007
	(AN * Y) + (!AN * !C * Y)	0.00094	0.00096	0.00098

Passive power(pJ) for BN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX0P7H7H	(AN * Y) + (!AN * !C * Y)	0.00076	0.00078	0.00081
	(AN * Y) + (!AN * !C * Y)	-0.00003	-0.00003	-0.00003
	(AN * Y) + (!AN * !C * Y)	0.00007	0.00007	0.00007
	(AN * Y) + (!AN * !C * Y)	-0.00005	-0.00003	-0.00001

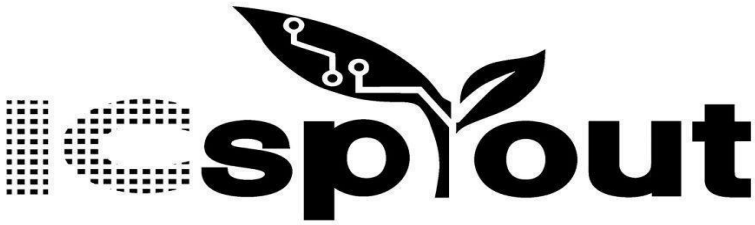
Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX0P7H7H	(BN * Y)	-0.00026	-0.00026	-0.00026
	(BN * Y)	-0.00001	-0.00001	-0.00001
	(BN * Y)	0.00003	0.00003	0.00004
	(BN * Y)	0.00014	0.00015	0.00015
	(AN * !BN * Y)	-0.00034	-0.00034	-0.00034
	(AN * !BN * Y)	-0.00001	-0.00001	-0.00001
	(AN * !BN * Y)	0.00003	0.00003	0.00004
	(AN * !BN * Y)	0.00007	0.00008	0.00008

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX0P7H7H	(BN * Y)	0.00026	0.00026	0.00026
	(BN * Y)	0.00001	0.00001	0.00001
	(BN * Y)	-0.00003	-0.00003	-0.00003
	(BN * Y)	-0.00015	-0.00015	-0.00014
	(AN * !BN * Y)	0.00034	0.00034	0.00034
	(AN * !BN * Y)	0.00001	0.00001	0.00001
	(AN * !BN * Y)	-0.00003	-0.00003	-0.00003
	(AN * !BN * Y)	-0.00008	-0.00007	-0.00007

NAND3BBX1H7H



tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

3-Input NAND with 2 Inverted Inputs

NAND3BB, In: AN, BN, C, Out: Y

Truth Table

INPUT			OUTPUT
AN	BN	C	Y
0	x	0	1
0	0	1	0
x	1	1	1
1	x	x	1

Footprint

Cell Name	Area
NAND3BBX1H7H	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	AN	BN	C	Y
NAND3BBX1H7H	0.00096	0.00097	0.00098	0.02180

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND3BBX1H7H	0.00000	0.01974	0.02516

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3BBX1H7H	AN->Y (RR)	0.05065	0.15942	0.41075
	BN->Y (RR)	0.05128	0.15970	0.41027
	C->Y (FR)	0.02876	0.15583	0.56515

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3BBX1H7H	AN->Y (FF)	0.08080	0.25290	0.67306
	BN->Y (FF)	0.08607	0.25900	0.68339
	C->Y (RF)	0.05589	0.23002	0.72491

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3BBX1H7H	AN	0.00078	0.00085	0.00092
	AN	-0.00010	-0.00009	-0.00009
	AN	0.00000	0.00001	0.00001
	AN	0.00125	0.00132	0.00138
	BN	0.00069	0.00074	0.00079
	BN	-0.00009	-0.00009	-0.00009
	BN	0.00006	0.00006	0.00006
	BN	0.00114	0.00119	0.00124
	C	0.00078	0.00083	0.00085
	C	-0.00011	-0.00011	-0.00011
	C	0.00012	0.00013	0.00013
	C	-0.00010	-0.00007	-0.00005

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3BBX1H7H	AN	0.00122	0.00128	0.00134
	AN	0.00009	0.00009	0.00010
	AN	-0.00001	-0.00001	-0.00000
	AN	0.00075	0.00081	0.00087
	BN	0.00137	0.00141	0.00146
	BN	0.00009	0.00009	0.00010
	BN	-0.00006	-0.00006	-0.00006
	BN	0.00094	0.00098	0.00102
	C	0.00035	0.00038	0.00041
	C	0.00011	0.00011	0.00012
	C	-0.00013	-0.00013	-0.00012
	C	0.00129	0.00133	0.00135

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX1H7H	(BN * Y)	0.00018	0.00020	0.00023
	(BN * Y)	0.00003	0.00003	0.00003
	(BN * Y)	-0.00005	-0.00005	-0.00005
	(BN * Y)	0.00095	0.00097	0.00100
	(!BN * !C * Y)	0.00022	0.00024	0.00027
	(!BN * !C * Y)	0.00003	0.00003	0.00003
	(!BN * !C * Y)	-0.00005	-0.00005	-0.00005
	(!BN * !C * Y)	0.00099	0.00102	0.00105

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX1H7H	(BN * Y)	0.00070	0.00072	0.00075
	(BN * Y)	-0.00003	-0.00003	-0.00003
	(BN * Y)	0.00005	0.00005	0.00005
	(BN * Y)	-0.00008	-0.00005	-0.00003
	(!BN * !C * Y)	0.00066	0.00069	0.00071
	(!BN * !C * Y)	-0.00003	-0.00003	-0.00003
	(!BN * !C * Y)	0.00005	0.00005	0.00005
	(!BN * !C * Y)	-0.00012	-0.00009	-0.00006

Passive power(pJ) for BN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX1H7H	(AN * Y) + (!AN * !C * Y)	0.00006	0.00009	0.00012
	(AN * Y) + (!AN * !C * Y)	0.00003	0.00003	0.00003
	(AN * Y) + (!AN * !C * Y)	-0.00004	-0.00004	-0.00003
	(AN * Y) + (!AN * !C * Y)	0.00085	0.00088	0.00091

Passive power(pJ) for BN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX1H7H	(AN * Y) + (!AN * !C * Y)	0.00086	0.00088	0.00091
	(AN * Y) + (!AN * !C * Y)	-0.00003	-0.00003	-0.00003
	(AN * Y) + (!AN * !C * Y)	0.00003	0.00004	0.00004
	(AN * Y) + (!AN * !C * Y)	0.00007	0.00009	0.00012

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX1H7H	(AN * BN * Y)	-0.00020	-0.00019	-0.00019
	(AN * BN * Y)	-0.00001	-0.00001	-0.00001
	(AN * BN * Y)	0.00002	0.00002	0.00002
	(AN * BN * Y)	0.00028	0.00028	0.00029
	(AN * !BN * Y)	-0.00027	-0.00027	-0.00027
	(AN * !BN * Y)	-0.00001	-0.00001	-0.00001
	(AN * !BN * Y)	0.00001	0.00002	0.00002
	(AN * !BN * Y)	0.00021	0.00021	0.00022
	(!AN * BN * Y)	-0.00020	-0.00019	-0.00019
	(!AN * BN * Y)	-0.00002	-0.00001	-0.00001
	(!AN * BN * Y)	0.00002	0.00002	0.00002
	(!AN * BN * Y)	0.00029	0.00029	0.00029

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX1H7H	(AN * BN * Y)	0.00019	0.00019	0.00020
	(AN * BN * Y)	0.00001	0.00001	0.00001
	(AN * BN * Y)	-0.00002	-0.00002	-0.00002
	(AN * BN * Y)	-0.00029	-0.00028	-0.00026
	(AN * !BN * Y)	0.00027	0.00027	0.00028
	(AN * !BN * Y)	0.00001	0.00001	0.00001
	(AN * !BN * Y)	-0.00002	-0.00002	-0.00001
	(AN * !BN * Y)	-0.00021	-0.00021	-0.00020
	(!AN * BN * Y)	0.00019	0.00019	0.00020
	(!AN * BN * Y)	0.00001	0.00001	0.00002
	(!AN * BN * Y)	-0.00002	-0.00002	-0.00002
	(!AN * BN * Y)	-0.00029	-0.00028	-0.00027

NAND3BBX1P4H7H

Cell Description

3-Input NAND with 2 Inverted Inputs

NAND3BB, In: AN, BN, C, Out: Y

Truth Table

INPUT			OUTPUT
AN	BN	C	Y
0	x	0	1
0	0	1	0
x	1	1	1
1	x	x	1

Footprint

Cell Name	Area
NAND3BBX1P4H7H	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	AN	BN	C	Y
NAND3BBX1P4H7H	0.00097	0.00100	0.00101	0.02463

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND3BBX1P4H7H	0.00000	0.02181	0.02994

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3BBX1P4H7H	AN->Y (RR)	0.04915	0.15823	0.41006
	BN->Y (RR)	0.05203	0.16187	0.41582
	C->Y (FR)	0.02642	0.15309	0.56326

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3BBX1P4H7H	AN->Y (FF)	0.07771	0.25100	0.67373
	BN->Y (FF)	0.08680	0.26206	0.69240
	C->Y (RF)	0.05224	0.22743	0.72678

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3BBX1P4H7H	AN	0.00080	0.00088	0.00094
	AN	-0.00012	-0.00011	-0.00011
	AN	0.00001	0.00001	0.00002
	AN	0.00126	0.00134	0.00141
	BN	0.00077	0.00083	0.00089
	BN	-0.00011	-0.00011	-0.00011
	BN	0.00007	0.00007	0.00007
	BN	0.00121	0.00128	0.00133
	C	0.00080	0.00085	0.00088
	C	-0.00013	-0.00013	-0.00013
	C	0.00014	0.00015	0.00015
	C	-0.00012	-0.00009	-0.00007

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3BBX1P4H7H	AN	0.00125	0.00132	0.00138
	AN	0.00011	0.00011	0.00012
	AN	-0.00001	-0.00001	-0.00001
	AN	0.00079	0.00085	0.00092
	BN	0.00147	0.00152	0.00157
	BN	0.00011	0.00011	0.00012
	BN	-0.00007	-0.00007	-0.00007
	BN	0.00104	0.00109	0.00114
	C	0.00039	0.00043	0.00045
	C	0.00013	0.00013	0.00014
	C	-0.00015	-0.00015	-0.00014
	C	0.00139	0.00142	0.00145

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX1P4H7H	(BN * Y)	0.00020	0.00022	0.00025
	(BN * Y)	0.00003	0.00003	0.00003
	(BN * Y)	-0.00006	-0.00006	-0.00005
	(BN * Y)	0.00098	0.00100	0.00103
	(!BN * !C * Y)	0.00024	0.00026	0.00029
	(!BN * !C * Y)	0.00003	0.00003	0.00003
	(!BN * !C * Y)	-0.00006	-0.00006	-0.00005
	(!BN * !C * Y)	0.00102	0.00104	0.00107

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX1P4H7H	(BN * Y)	0.00070	0.00073	0.00076
	(BN * Y)	-0.00003	-0.00003	-0.00003
	(BN * Y)	0.00006	0.00006	0.00006
	(BN * Y)	-0.00008	-0.00006	-0.00002
	(!BN * !C * Y)	0.00066	0.00069	0.00072
	(!BN * !C * Y)	-0.00003	-0.00003	-0.00003
	(!BN * !C * Y)	0.00006	0.00006	0.00006
	(!BN * !C * Y)	-0.00012	-0.00010	-0.00007

Passive power(pJ) for BN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX1P4H7H	(AN * Y) + (!AN * !C * Y)	0.00010	0.00013	0.00016
	(AN * Y) + (!AN * !C * Y)	0.00003	0.00003	0.00003
	(AN * Y) + (!AN * !C * Y)	-0.00004	-0.00004	-0.00003
	(AN * Y) + (!AN * !C * Y)	0.00091	0.00093	0.00097

Passive power(pJ) for BN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX1P4H7H	(AN * Y) + (!AN * !C * Y)	0.00090	0.00092	0.00095
	(AN * Y) + (!AN * !C * Y)	-0.00003	-0.00003	-0.00003
	(AN * Y) + (!AN * !C * Y)	0.00003	0.00004	0.00004
	(AN * Y) + (!AN * !C * Y)	0.00009	0.00012	0.00015

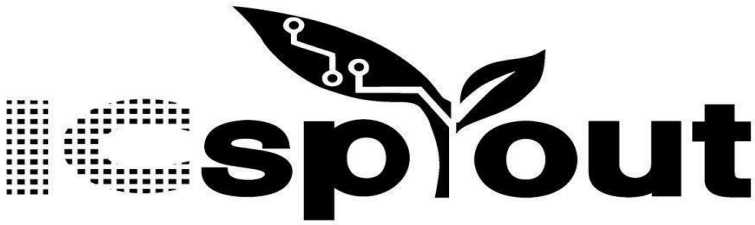
Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX1P4H7H	(AN * BN * Y)	-0.00020	-0.00020	-0.00020
	(AN * BN * Y)	-0.00001	-0.00001	-0.00001
	(AN * BN * Y)	0.00002	0.00002	0.00002
	(AN * BN * Y)	0.00030	0.00030	0.00030
	(AN * !BN * Y)	-0.00027	-0.00027	-0.00027
	(AN * !BN * Y)	-0.00001	-0.00001	-0.00001
	(AN * !BN * Y)	0.00002	0.00002	0.00003
	(AN * !BN * Y)	0.00022	0.00023	0.00023
	(!AN * BN * Y)	-0.00020	-0.00020	-0.00019
	(!AN * BN * Y)	-0.00001	-0.00001	-0.00000
	(!AN * BN * Y)	0.00002	0.00002	0.00002
	(!AN * BN * Y)	0.00030	0.00030	0.00030

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX1P4H7H	(AN * BN * Y)	0.00020	0.00020	0.00020
	(AN * BN * Y)	0.00001	0.00001	0.00001
	(AN * BN * Y)	-0.00002	-0.00002	-0.00002
	(AN * BN * Y)	-0.00030	-0.00030	-0.00028
	(AN * !BN * Y)	0.00027	0.00028	0.00028
	(AN * !BN * Y)	0.00001	0.00001	0.00001
	(AN * !BN * Y)	-0.00003	-0.00002	-0.00002
	(AN * !BN * Y)	-0.00023	-0.00022	-0.00020
	(!AN * BN * Y)	0.00019	0.00020	0.00020
	(!AN * BN * Y)	0.00001	0.00001	0.00002
	(!AN * BN * Y)	-0.00002	-0.00002	-0.00002
	(!AN * BN * Y)	-0.00030	-0.00030	-0.00028

NAND3BBX2H7H



tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

3-Input NAND with 2 Inverted Inputs

NAND3BB, In: AN, BN, C, Out: Y

Truth Table

INPUT			OUTPUT
AN	BN	C	Y
0	x	0	1
0	0	1	0
x	1	1	1
1	x	x	1

Footprint

Cell Name	Area
NAND3BBX2H7H	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	AN	BN	C	Y
NAND3BBX2H7H	0.00113	0.00114	0.00104	0.01694

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND3BBX2H7H	0.00000	0.01769	0.02404

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3BBX2H7H	AN->Y (RR)	0.04919	0.13517	0.32730
	BN->Y (RR)	0.04956	0.13532	0.32723
	C->Y (FR)	0.02317	0.12064	0.44904

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3BBX2H7H	AN->Y (FF)	0.08504	0.24781	0.64564
	BN->Y (FF)	0.08874	0.25231	0.65272
	C->Y (RF)	0.06959	0.23986	0.71818

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3BBX2H7H	AN	0.00081	0.00089	0.00096
	AN	-0.00012	-0.00012	-0.00011
	AN	-0.00000	0.00000	0.00000
	AN	0.00138	0.00146	0.00153
	BN	0.00072	0.00078	0.00084
	BN	-0.00012	-0.00012	-0.00011
	BN	0.00004	0.00004	0.00004
	BN	0.00127	0.00133	0.00139
	C	0.00082	0.00087	0.00090
	C	-0.00016	-0.00016	-0.00016
	C	0.00009	0.00009	0.00009
	C	-0.00010	-0.00007	-0.00005

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3BBX2H7H	AN	0.00138	0.00145	0.00152
	AN	0.00011	0.00012	0.00012
	AN	-0.00000	-0.00000	0.00000
	AN	0.00081	0.00088	0.00095
	BN	0.00153	0.00158	0.00163
	BN	0.00011	0.00012	0.00012
	BN	-0.00004	-0.00004	-0.00004
	BN	0.00098	0.00103	0.00109
	C	0.00032	0.00036	0.00040
	C	0.00016	0.00016	0.00016
	C	-0.00009	-0.00009	-0.00009
	C	0.00129	0.00134	0.00137

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX2H7H	(BN * Y)	0.00017	0.00019	0.00024
	(BN * Y)	0.00006	0.00006	0.00006
	(BN * Y)	-0.00005	-0.00005	-0.00004
	(BN * Y)	0.00108	0.00111	0.00114
	(!BN * !C * Y)	0.00020	0.00023	0.00028
	(!BN * !C * Y)	0.00006	0.00006	0.00006
	(!BN * !C * Y)	-0.00004	-0.00004	-0.00004
	(!BN * !C * Y)	0.00112	0.00114	0.00118

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX2H7H	(BN * Y)	0.00080	0.00083	0.00086
	(BN * Y)	-0.00006	-0.00006	-0.00006
	(BN * Y)	0.00005	0.00005	0.00005
	(BN * Y)	-0.00011	-0.00009	-0.00005
	(!BN * !C * Y)	0.00077	0.00080	0.00082
	(!BN * !C * Y)	-0.00006	-0.00006	-0.00005
	(!BN * !C * Y)	0.00004	0.00005	0.00005
	(!BN * !C * Y)	-0.00015	-0.00012	-0.00009

Passive power(pJ) for BN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX2H7H	(AN * Y) + (!AN * !C * Y)	0.00006	0.00009	0.00013
	(AN * Y) + (!AN * !C * Y)	0.00006	0.00006	0.00006
	(AN * Y) + (!AN * !C * Y)	-0.00004	-0.00003	-0.00003
	(AN * Y) + (!AN * !C * Y)	0.00098	0.00100	0.00104

Passive power(pJ) for BN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX2H7H	(AN * Y) + (!AN * !C * Y)	0.00096	0.00098	0.00101
	(AN * Y) + (!AN * !C * Y)	-0.00006	-0.00006	-0.00006
	(AN * Y) + (!AN * !C * Y)	0.00003	0.00003	0.00004
	(AN * Y) + (!AN * !C * Y)	0.00004	0.00006	0.00009

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX2H7H	(AN * BN * Y)	-0.00025	-0.00025	-0.00025
	(AN * BN * Y)	-0.00002	-0.00001	-0.00000
	(AN * BN * Y)	0.00001	0.00001	0.00002
	(AN * BN * Y)	0.00026	0.00026	0.00026
	(AN * !BN * Y)	-0.00032	-0.00032	-0.00032
	(AN * !BN * Y)	-0.00001	-0.00001	-0.00001
	(AN * !BN * Y)	0.00000	0.00001	0.00001
	(AN * !BN * Y)	0.00020	0.00020	0.00021
	(!AN * BN * Y)	-0.00025	-0.00025	-0.00025
	(!AN * BN * Y)	-0.00001	-0.00001	-0.00000
	(!AN * BN * Y)	0.00001	0.00001	0.00001
	(!AN * BN * Y)	0.00026	0.00026	0.00026

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX2H7H	(AN * BN * Y)	0.00025	0.00025	0.00025
	(AN * BN * Y)	0.00001	0.00002	0.00002
	(AN * BN * Y)	-0.00002	-0.00001	-0.00001
	(AN * BN * Y)	-0.00026	-0.00026	-0.00025
	(AN * !BN * Y)	0.00032	0.00032	0.00032
	(AN * !BN * Y)	0.00001	0.00002	0.00002
	(AN * !BN * Y)	-0.00001	-0.00001	-0.00000
	(AN * !BN * Y)	-0.00020	-0.00019	-0.00017
	(!AN * BN * Y)	0.00025	0.00025	0.00025
	(!AN * BN * Y)	0.00001	0.00002	0.00002
	(!AN * BN * Y)	-0.00001	-0.00001	-0.00001
	(!AN * BN * Y)	-0.00026	-0.00026	-0.00025

NAND3BBX3H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

3-Input NAND with 2 Inverted Inputs

NAND3BB, In: AN, BN, C, Out: Y

Truth Table

INPUT			OUTPUT
AN	BN	C	Y
0	x	0	1
0	0	1	0
x	1	1	1
1	x	x	1

Footprint

Cell Name	Area
NAND3BBX3H7H	3.92000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	AN	BN	C	Y
NAND3BBX3H7H	0.00097	0.00097	0.00193	0.04539

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND3BBX3H7H	0.00000	0.02964	0.04334

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3BBX3H7H	AN->Y (RR)	0.05617	0.17450	0.45051
	BN->Y (RR)	0.06262	0.18254	0.46290
	C->Y (FR)	0.02517	0.15279	0.56528

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3BBX3H7H	AN->Y (FF)	0.08431	0.26717	0.71512
	BN->Y (FF)	0.10339	0.28979	0.75093
	C->Y (RF)	0.05669	0.23219	0.73127

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3BBX3H7H	AN	0.00144	0.00157	0.00168
	AN	-0.00022	-0.00022	-0.00021
	AN	0.00003	0.00004	0.00005
	AN	0.00168	0.00181	0.00192
	BN	0.00159	0.00170	0.00179
	BN	-0.00022	-0.00022	-0.00020
	BN	0.00014	0.00015	0.00015
	BN	0.00173	0.00184	0.00193
	C	0.00156	0.00166	0.00173
	C	-0.00024	-0.00024	-0.00023
	C	0.00026	0.00026	0.00027
	C	-0.00019	-0.00013	-0.00008

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3BBX3H7H	AN	0.00179	0.00188	0.00199
	AN	0.00021	0.00022	0.00023
	AN	-0.00004	-0.00004	-0.00003
	AN	0.00155	0.00164	0.00175
	BN	0.00231	0.00238	0.00246
	BN	0.00022	0.00022	0.00023
	BN	-0.00015	-0.00015	-0.00014
	BN	0.00219	0.00226	0.00235
	C	0.00087	0.00094	0.00099
	C	0.00023	0.00024	0.00024
	C	-0.00027	-0.00026	-0.00026
	C	0.00278	0.00284	0.00289

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX3H7H	(BN * Y)	0.00044	0.00047	0.00051
	(BN * Y)	0.00004	0.00004	0.00004
	(BN * Y)	-0.00008	-0.00007	-0.00007
	(BN * Y)	0.00126	0.00128	0.00132
	(!BN * !C * Y)	0.00052	0.00054	0.00058
	(!BN * !C * Y)	0.00004	0.00004	0.00004
	(!BN * !C * Y)	-0.00008	-0.00008	-0.00008
	(!BN * !C * Y)	0.00134	0.00136	0.00140

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX3H7H	(BN * Y)	0.00086	0.00089	0.00093
	(BN * Y)	-0.00004	-0.00004	-0.00004
	(BN * Y)	0.00008	0.00008	0.00008
	(BN * Y)	0.00005	0.00007	0.00011
	(!BN * !C * Y)	0.00079	0.00082	0.00086
	(!BN * !C * Y)	-0.00004	-0.00004	-0.00004
	(!BN * !C * Y)	0.00008	0.00008	0.00009
	(!BN * !C * Y)	-0.00004	-0.00002	0.00001

Passive power(pJ) for BN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX3H7H	(AN * Y) + (!AN * !C * Y)	0.00027	0.00030	0.00033
	(AN * Y) + (!AN * !C * Y)	0.00004	0.00004	0.00004
	(AN * Y) + (!AN * !C * Y)	-0.00006	-0.00006	-0.00005
	(AN * Y) + (!AN * !C * Y)	0.00108	0.00111	0.00115

Passive power(pJ) for BN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX3H7H	(AN * Y) + (!AN * !C * Y)	0.00124	0.00127	0.00130
	(AN * Y) + (!AN * !C * Y)	-0.00004	-0.00004	-0.00004
	(AN * Y) + (!AN * !C * Y)	0.00005	0.00006	0.00006
	(AN * Y) + (!AN * !C * Y)	0.00044	0.00046	0.00049

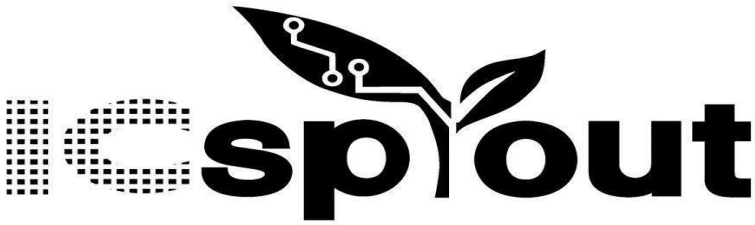
Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX3H7H	(AN * BN * Y)	-0.00039	-0.00039	-0.00039
	(AN * BN * Y)	-0.00002	-0.00002	-0.00002
	(AN * BN * Y)	0.00003	0.00003	0.00004
	(AN * BN * Y)	0.00054	0.00054	0.00055
	(AN * !BN * Y)	-0.00049	-0.00048	-0.00048
	(AN * !BN * Y)	-0.00003	-0.00002	-0.00002
	(AN * !BN * Y)	0.00003	0.00004	0.00005
	(AN * !BN * Y)	0.00046	0.00046	0.00047
	(!AN * BN * Y)	-0.00039	-0.00039	-0.00039
	(!AN * BN * Y)	-0.00003	-0.00003	-0.00002
	(!AN * BN * Y)	0.00003	0.00003	0.00004
	(!AN * BN * Y)	0.00054	0.00054	0.00055

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX3H7H	(AN * BN * Y)	0.00039	0.00039	0.00040
	(AN * BN * Y)	0.00002	0.00002	0.00003
	(AN * BN * Y)	-0.00004	-0.00003	-0.00003
	(AN * BN * Y)	-0.00054	-0.00053	-0.00051
	(AN * !BN * Y)	0.00048	0.00049	0.00051
	(AN * !BN * Y)	0.00002	0.00003	0.00003
	(AN * !BN * Y)	-0.00005	-0.00004	-0.00003
	(AN * !BN * Y)	-0.00047	-0.00044	-0.00041
	(!AN * BN * Y)	0.00039	0.00040	0.00040
	(!AN * BN * Y)	0.00002	0.00003	0.00004
	(!AN * BN * Y)	-0.00004	-0.00003	-0.00003
	(!AN * BN * Y)	-0.00054	-0.00053	-0.00050

NAND3BBX4H7H



tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

3-Input NAND with 2 Inverted Inputs

NAND3BB, In: AN, BN, C, Out: Y

Truth Table

INPUT			OUTPUT
AN	BN	C	Y
0	x	0	1
0	0	1	0
x	1	1	1
1	x	x	1

Footprint

Cell Name	Area
NAND3BBX4H7H	3.92000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	AN	BN	C	Y
NAND3BBX4H7H	0.00170	0.00172	0.00157	0.02429

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND3BBX4H7H	0.00000	0.04672	0.06485

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3BBX4H7H	AN->Y (RR)	0.04365	0.12276	0.29844
	BN->Y (RR)	0.04694	0.12768	0.30789
	C->Y (FR)	0.01759	0.09931	0.38523

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3BBX4H7H	AN->Y (FF)	0.07855	0.23440	0.61521
	BN->Y (FF)	0.08711	0.24567	0.63301
	C->Y (RF)	0.06881	0.24186	0.73071

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3BBX4H7H	AN	0.00120	0.00130	0.00140
	AN	-0.00024	-0.00023	-0.00023
	AN	-0.00000	0.00000	0.00003
	AN	0.00199	0.00209	0.00219
	BN	0.00124	0.00133	0.00143
	BN	-0.00024	-0.00023	-0.00021
	BN	0.00006	0.00006	0.00006
	BN	0.00204	0.00213	0.00223
	C	0.00132	0.00136	0.00140
	C	-0.00032	-0.00032	-0.00031
	C	0.00014	0.00015	0.00015
	C	-0.00023	-0.00019	-0.00016

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3BBX4H7H	AN	0.00213	0.00223	0.00234
	AN	0.00023	0.00023	0.00024
	AN	-0.00000	-0.00000	0.00000
	AN	0.00134	0.00144	0.00155
	BN	0.00243	0.00253	0.00265
	BN	0.00021	0.00023	0.00026
	BN	-0.00006	-0.00006	-0.00006
	BN	0.00164	0.00174	0.00185
	C	0.00048	0.00054	0.00061
	C	0.00032	0.00032	0.00033
	C	-0.00015	-0.00015	-0.00014
	C	0.00208	0.00215	0.00221

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX4H7H	(BN * Y)	0.00024	0.00028	0.00034
	(BN * Y)	0.00011	0.00012	0.00012
	(BN * Y)	-0.00007	-0.00007	-0.00007
	(BN * Y)	0.00164	0.00168	0.00174
	(!BN * !C * Y)	0.00028	0.00032	0.00039
	(!BN * !C * Y)	0.00011	0.00012	0.00012
	(!BN * !C * Y)	-0.00007	-0.00007	-0.00007
	(!BN * !C * Y)	0.00168	0.00172	0.00178

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX4H7H	(BN * Y)	0.00120	0.00124	0.00129
	(BN * Y)	-0.00012	-0.00012	-0.00011
	(BN * Y)	0.00007	0.00007	0.00007
	(BN * Y)	-0.00020	-0.00016	-0.00012
	(!BN * !C * Y)	0.00116	0.00120	0.00125
	(!BN * !C * Y)	-0.00012	-0.00011	-0.00011
	(!BN * !C * Y)	0.00007	0.00007	0.00007
	(!BN * !C * Y)	-0.00025	-0.00021	-0.00017

Passive power(pJ) for BN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX4H7H	(AN * Y) + (!AN * !C * Y)	0.00018	0.00022	0.00028
	(AN * Y) + (!AN * !C * Y)	0.00011	0.00012	0.00012
	(AN * Y) + (!AN * !C * Y)	-0.00006	-0.00005	-0.00005
	(AN * Y) + (!AN * !C * Y)	0.00164	0.00168	0.00175

Passive power(pJ) for BN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX4H7H	(AN * Y) + (!AN * !C * Y)	0.00146	0.00150	0.00154
	(AN * Y) + (!AN * !C * Y)	-0.00012	-0.00012	-0.00011
	(AN * Y) + (!AN * !C * Y)	0.00005	0.00005	0.00006
	(AN * Y) + (!AN * !C * Y)	0.00000	0.00004	0.00009

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX4H7H	(AN * BN * Y)	-0.00045	-0.00044	-0.00044
	(AN * BN * Y)	-0.00003	-0.00003	-0.00003
	(AN * BN * Y)	0.00002	0.00002	0.00002
	(AN * BN * Y)	0.00037	0.00037	0.00037
	(AN * !BN * Y)	-0.00053	-0.00053	-0.00052
	(AN * !BN * Y)	-0.00003	-0.00003	-0.00003
	(AN * !BN * Y)	0.00002	0.00002	0.00003
	(AN * !BN * Y)	0.00028	0.00029	0.00029
	(!AN * BN * Y)	-0.00045	-0.00044	-0.00044
	(!AN * BN * Y)	-0.00003	-0.00003	-0.00001
	(!AN * BN * Y)	0.00002	0.00002	0.00002
	(!AN * BN * Y)	0.00037	0.00037	0.00037

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX4H7H	(AN * BN * Y)	0.00044	0.00044	0.00045
	(AN * BN * Y)	0.00003	0.00003	0.00003
	(AN * BN * Y)	-0.00002	-0.00002	-0.00002
	(AN * BN * Y)	-0.00037	-0.00036	-0.00034
	(AN * !BN * Y)	0.00053	0.00053	0.00054
	(AN * !BN * Y)	0.00003	0.00003	0.00003
	(AN * !BN * Y)	-0.00003	-0.00002	-0.00002
	(AN * !BN * Y)	-0.00029	-0.00028	-0.00025
	(!AN * BN * Y)	0.00044	0.00045	0.00046
	(!AN * BN * Y)	0.00001	0.00003	0.00004
	(!AN * BN * Y)	-0.00002	-0.00002	-0.00002
	(!AN * BN * Y)	-0.00037	-0.00036	-0.00035

NAND3BBX6H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

3-Input NAND with 2 Inverted Inputs

NAND3BB, In: AN, BN, C, Out: Y

Truth Table

INPUT			OUTPUT
AN	BN	C	Y
0	x	0	1
0	0	1	0
x	1	1	1
1	x	x	1

Footprint

Cell Name	Area
NAND3BBX6H7H	3.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	AN	BN	C	Y
NAND3BBX6H7H	0.00127	0.00128	0.00113	0.02910

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND3BBX6H7H	0.00000	0.04740	0.06904

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3BBX6H7H	AN->Y (RR)	0.04151	0.14794	0.39280
	BN->Y (RR)	0.04344	0.15019	0.39589
	C->Y (FR)	0.02615	0.15467	0.57026

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3BBX6H7H	AN->Y (FF)	0.06561	0.23437	0.64575
	BN->Y (FF)	0.07230	0.24259	0.66001
	C->Y (RF)	0.04971	0.22623	0.73023

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3BBX6H7H	AN	0.00090	0.00100	0.00108
	AN	-0.00012	-0.00012	-0.00011
	AN	-0.00000	0.00000	0.00000
	AN	0.00159	0.00168	0.00176
	BN	0.00087	0.00094	0.00101
	BN	-0.00012	-0.00012	-0.00012
	BN	0.00007	0.00007	0.00010
	BN	0.00151	0.00158	0.00164
	C	0.00095	0.00102	0.00105
	C	-0.00016	-0.00016	-0.00016
	C	0.00017	0.00018	0.00018
	C	-0.00009	-0.00006	-0.00003

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3BBX6H7H	AN	0.00155	0.00162	0.00170
	AN	0.00012	0.00012	0.00012
	AN	-0.00000	-0.00000	0.00000
	AN	0.00086	0.00093	0.00101
	BN	0.00177	0.00182	0.00188
	BN	0.00012	0.00012	0.00012
	BN	-0.00009	-0.00007	-0.00007
	BN	0.00114	0.00120	0.00126
	C	0.00045	0.00049	0.00052
	C	0.00016	0.00016	0.00016
	C	-0.00018	-0.00018	-0.00017
	C	0.00159	0.00162	0.00165

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX6H7H	(BN * Y)	0.00018	0.00021	0.00024
	(BN * Y)	0.00006	0.00006	0.00006
	(BN * Y)	-0.00008	-0.00008	-0.00008
	(BN * Y)	0.00123	0.00126	0.00129
	(!BN * !C * Y)	0.00023	0.00026	0.00029
	(!BN * !C * Y)	0.00006	0.00006	0.00006
	(!BN * !C * Y)	-0.00008	-0.00008	-0.00008
	(!BN * !C * Y)	0.00127	0.00130	0.00134

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX6H7H	(BN * Y)	0.00089	0.00092	0.00096
	(BN * Y)	-0.00006	-0.00006	-0.00005
	(BN * Y)	0.00008	0.00008	0.00008
	(BN * Y)	-0.00016	-0.00013	-0.00009
	(!BN * !C * Y)	0.00086	0.00089	0.00092
	(!BN * !C * Y)	-0.00006	-0.00006	-0.00006
	(!BN * !C * Y)	0.00008	0.00008	0.00008
	(!BN * !C * Y)	-0.00020	-0.00017	-0.00013

Passive power(pJ) for BN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX6H7H	(AN * Y) + (!AN * !C * Y)	0.00007	0.00010	0.00014
	(AN * Y) + (!AN * !C * Y)	0.00006	0.00006	0.00006
	(AN * Y) + (!AN * !C * Y)	-0.00006	-0.00006	-0.00006
	(AN * Y) + (!AN * !C * Y)	0.00112	0.00116	0.00121

Passive power(pJ) for BN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX6H7H	(AN * Y) + (!AN * !C * Y)	0.00110	0.00113	0.00117
	(AN * Y) + (!AN * !C * Y)	-0.00006	-0.00006	-0.00006
	(AN * Y) + (!AN * !C * Y)	0.00006	0.00006	0.00006
	(AN * Y) + (!AN * !C * Y)	0.00004	0.00007	0.00011

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX6H7H	(AN * BN * Y)	-0.00023	-0.00023	-0.00023
	(AN * BN * Y)	-0.00002	-0.00002	-0.00001
	(AN * BN * Y)	0.00002	0.00003	0.00003
	(AN * BN * Y)	0.00031	0.00032	0.00032
	(AN * !BN * Y)	-0.00031	-0.00031	-0.00031
	(AN * !BN * Y)	-0.00001	-0.00001	-0.00001
	(AN * !BN * Y)	0.00002	0.00002	0.00003
	(AN * !BN * Y)	0.00025	0.00025	0.00025
	(!AN * BN * Y)	-0.00023	-0.00023	-0.00023
	(!AN * BN * Y)	-0.00001	-0.00001	-0.00001
	(!AN * BN * Y)	0.00002	0.00002	0.00002
	(!AN * BN * Y)	0.00032	0.00032	0.00033

Passive power(pJ) for C falling (conditional):

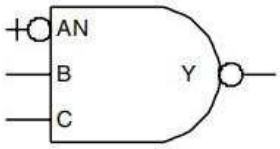
Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX6H7H	(AN * BN * Y)	0.00023	0.00023	0.00023
	(AN * BN * Y)	0.00001	0.00002	0.00002
	(AN * BN * Y)	-0.00003	-0.00003	-0.00002
	(AN * BN * Y)	-0.00032	-0.00031	-0.00030
	(AN * !BN * Y)	0.00031	0.00032	0.00032
	(AN * !BN * Y)	0.00001	0.00002	0.00002
	(AN * !BN * Y)	-0.00003	-0.00002	-0.00002
	(AN * !BN * Y)	-0.00025	-0.00024	-0.00021
	(!AN * BN * Y)	0.00023	0.00023	0.00024
	(!AN * BN * Y)	0.00001	0.00001	0.00001
	(!AN * BN * Y)	-0.00002	-0.00002	-0.00002
	(!AN * BN * Y)	-0.00032	-0.00032	-0.00030

NAND3BX0P5H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND3B cell provides the logical NAND of one inverted input (AN) and two non-inverted inputs (B, C). The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
AN	B	C	Y
x	0	x	1
x	1	0	1
0	1	1	0
1	1	1	1

Footprint

Cell Name	Area
NAND3BX0P5H7H	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	AN	B	C	Y
NAND3BX0P5H7H	0.00099	0.00081	0.00092	0.01721

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND3BX0P5H7H	0.00000	0.01180	0.02509

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3BX0P5H7H	AN->Y (RR)	0.05517	0.16571	0.42173
	B->Y (FR)	0.03039	0.15963	0.57767
	C->Y (FR)	0.02846	0.15577	0.57444

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3BX0P5H7H	AN->Y (FF)	0.08724	0.25702	0.67313
	B->Y (RF)	0.05231	0.23037	0.74583
	C->Y (RF)	0.04929	0.22373	0.74236

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3BX0P5H7H	AN	0.00084	0.00088	0.00093
	AN	-0.00006	-0.00006	-0.00005
	AN	0.00007	0.00007	0.00007
	AN	0.00104	0.00108	0.00112
	B	0.00081	0.00084	0.00087
	B	-0.00008	-0.00008	-0.00008
	B	0.00006	0.00006	0.00007
	B	-0.00009	-0.00005	-0.00003
	C	0.00068	0.00072	0.00076
	C	-0.00008	-0.00008	-0.00007
	C	0.00001	0.00002	0.00005
	C	-0.00011	-0.00006	-0.00003

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3BX0P5H7H	AN	0.00100	0.00104	0.00108
	AN	0.00006	0.00006	0.00006
	AN	-0.00007	-0.00007	-0.00007
	AN	0.00086	0.00089	0.00093
	B	-0.00006	-0.00004	-0.00002
	B	0.00008	0.00008	0.00008
	B	-0.00007	-0.00006	-0.00006
	B	0.00086	0.00089	0.00090
	C	-0.00006	-0.00002	0.00001
	C	0.00008	0.00008	0.00008
	C	-0.00002	-0.00002	-0.00001
	C	0.00071	0.00076	0.00080

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX0P5H7H	(B * !C * Y) + (!B * C * Y)	0.00001	0.00003	0.00006
	(B * !C * Y) + (!B * C * Y)	0.00003	0.00003	0.00003
	(B * !C * Y) + (!B * C * Y)	-0.00004	-0.00004	-0.00003
	(B * !C * Y) + (!B * C * Y)	0.00084	0.00087	0.00091
	(!B * !C * Y)	0.00001	0.00003	0.00006
	(!B * !C * Y)	0.00003	0.00003	0.00003
	(!B * !C * Y)	-0.00004	-0.00004	-0.00004
	(!B * !C * Y)	0.00083	0.00086	0.00089

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX0P5H7H	(B * !C * Y) + (!B * C * Y)	0.00083	0.00086	0.00089
	(B * !C * Y) + (!B * C * Y)	-0.00003	-0.00003	-0.00003
	(B * !C * Y) + (!B * C * Y)	0.00003	0.00004	0.00005
	(B * !C * Y) + (!B * C * Y)	-0.00000	0.00002	0.00005
	(!B * !C * Y)	0.00083	0.00085	0.00089
	(!B * !C * Y)	-0.00003	-0.00003	-0.00003
	(!B * !C * Y)	0.00004	0.00004	0.00004
	(!B * !C * Y)	0.00000	0.00003	0.00006

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX0P5H7H	(AN * C * Y)	-0.00014	-0.00014	-0.00014
	(AN * C * Y)	-0.00001	-0.00001	-0.00001
	(AN * C * Y)	0.00004	0.00004	0.00004
	(AN * C * Y)	0.00012	0.00012	0.00012
	(AN * !C * Y)	-0.00014	-0.00014	-0.00014
	(AN * !C * Y)	-0.00001	-0.00001	-0.00001
	(AN * !C * Y)	0.00005	0.00005	0.00005
	(AN * !C * Y)	0.00012	0.00012	0.00012
	(!AN * !C * Y)	-0.00018	-0.00018	-0.00018
	(!AN * !C * Y)	-0.00001	-0.00001	-0.00001
	(!AN * !C * Y)	0.00001	0.00001	0.00001
	(!AN * !C * Y)	0.00019	0.00019	0.00019

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX0P5H7H	(AN * C * Y)	0.00014	0.00014	0.00014
	(AN * C * Y)	0.00001	0.00001	0.00001
	(AN * C * Y)	-0.00004	-0.00004	-0.00004
	(AN * C * Y)	-0.00012	-0.00012	-0.00012
	(AN * !C * Y)	0.00014	0.00014	0.00014
	(AN * !C * Y)	0.00001	0.00001	0.00001
	(AN * !C * Y)	-0.00005	-0.00005	-0.00005
	(AN * !C * Y)	-0.00012	-0.00012	-0.00012
	(!AN * !C * Y)	0.00018	0.00019	0.00020
	(!AN * !C * Y)	0.00001	0.00001	0.00001
	(!AN * !C * Y)	-0.00001	-0.00001	-0.00001
	(!AN * !C * Y)	-0.00019	-0.00018	-0.00017

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX0P5H7H	(AN * B * Y)	-0.00025	-0.00025	-0.00025
	(AN * B * Y)	-0.00001	-0.00001	-0.00001
	(AN * B * Y)	0.00002	0.00003	0.00003
	(AN * B * Y)	0.00007	0.00008	0.00009
	(!B * Y)	-0.00025	-0.00025	-0.00025
	(!B * Y)	-0.00001	-0.00001	-0.00001
	(!B * Y)	0.00002	0.00003	0.00003
	(!B * Y)	0.00008	0.00008	0.00008

Passive power(pJ) for C falling (conditional):

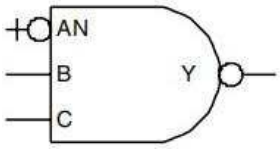
Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX0P5H7H	(AN * B * Y)	0.00025	0.00025	0.00025
	(AN * B * Y)	0.00001	0.00001	0.00001
	(AN * B * Y)	-0.00003	-0.00002	-0.00002
	(AN * B * Y)	-0.00008	-0.00008	-0.00007
	(!B * Y)	0.00025	0.00025	0.00025
	(!B * Y)	0.00001	0.00001	0.00001
	(!B * Y)	-0.00002	-0.00002	-0.00002
	(!B * Y)	-0.00008	-0.00008	-0.00008

NAND3BX0P7H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND3B cell provides the logical NAND of one inverted input (AN) and two non-inverted inputs (B, C). The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
AN	B	C	Y
x	0	x	1
x	1	0	1
0	1	1	0
1	1	1	1

Footprint

Cell Name	Area
NAND3BX0P7H7H	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	AN	B	C	Y
NAND3BX0P7H7H	0.00098	0.00085	0.00096	0.01913

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND3BX0P7H7H	0.00000	0.01241	0.02362

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3BX0P7H7H	AN->Y (RR)	0.05326	0.16300	0.41662
	B->Y (FR)	0.02818	0.15569	0.57155
	C->Y (FR)	0.02626	0.15183	0.56850

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3BX0P7H7H	AN->Y (FF)	0.08531	0.25613	0.67505
	B->Y (RF)	0.04948	0.22818	0.74611
	C->Y (RF)	0.04602	0.21998	0.73725

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3BX0P7H7H	AN	0.00091	0.00095	0.00100
	AN	-0.00007	-0.00007	-0.00007
	AN	0.00008	0.00009	0.00009
	AN	0.00104	0.00108	0.00113
	B	0.00085	0.00089	0.00091
	B	-0.00009	-0.00009	-0.00009
	B	0.00007	0.00007	0.00007
	B	-0.00010	-0.00007	-0.00005
	C	0.00071	0.00076	0.00080
	C	-0.00009	-0.00009	-0.00009
	C	0.00002	0.00002	0.00003
	C	-0.00012	-0.00008	-0.00004

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3BX0P7H7H	AN	0.00102	0.00106	0.00110
	AN	0.00007	0.00007	0.00007
	AN	-0.00009	-0.00009	-0.00008
	AN	0.00094	0.00098	0.00103
	B	-0.00007	-0.00004	-0.00002
	B	0.00009	0.00009	0.00009
	B	-0.00007	-0.00007	-0.00007
	B	0.00091	0.00095	0.00097
	C	-0.00007	-0.00003	0.00000
	C	0.00009	0.00009	0.00009
	C	-0.00003	-0.00002	-0.00002
	C	0.00075	0.00081	0.00084

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX0P7H7H	(B * !C * Y) + (!B * C * Y)	0.00002	0.00004	0.00007
	(B * !C * Y) + (!B * C * Y)	0.00003	0.00003	0.00003
	(B * !C * Y) + (!B * C * Y)	-0.00004	-0.00004	-0.00003
	(B * !C * Y) + (!B * C * Y)	0.00085	0.00087	0.00091
	(!B * !C * Y)	0.00002	0.00004	0.00008
	(!B * !C * Y)	0.00003	0.00003	0.00003
	(!B * !C * Y)	-0.00004	-0.00004	-0.00003
	(!B * !C * Y)	0.00083	0.00086	0.00090

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX0P7H7H	(B * !C * Y) + (!B * C * Y)	0.00084	0.00086	0.00089
	(B * !C * Y) + (!B * C * Y)	-0.00003	-0.00003	-0.00003
	(B * !C * Y) + (!B * C * Y)	0.00003	0.00004	0.00004
	(B * !C * Y) + (!B * C * Y)	0.00001	0.00004	0.00007
	(!B * !C * Y)	0.00083	0.00085	0.00088
	(!B * !C * Y)	-0.00003	-0.00003	-0.00003
	(!B * !C * Y)	0.00003	0.00004	0.00004
	(!B * !C * Y)	0.00002	0.00004	0.00007

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX0P7H7H	(AN * C * Y)	-0.00016	-0.00016	-0.00015
	(AN * C * Y)	-0.00001	-0.00001	-0.00001
	(AN * C * Y)	0.00005	0.00005	0.00005
	(AN * C * Y)	0.00011	0.00012	0.00012
	(AN * !C * Y)	-0.00016	-0.00016	-0.00016
	(AN * !C * Y)	-0.00001	-0.00001	-0.00001
	(AN * !C * Y)	0.00006	0.00006	0.00006
	(AN * !C * Y)	0.00012	0.00012	0.00012
	(!AN * !C * Y)	-0.00019	-0.00019	-0.00019
	(!AN * !C * Y)	-0.00001	-0.00001	-0.00001
	(!AN * !C * Y)	0.00001	0.00001	0.00001
	(!AN * !C * Y)	0.00020	0.00020	0.00020

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX0P7H7H	(AN * C * Y)	0.00016	0.00016	0.00016
	(AN * C * Y)	0.00001	0.00001	0.00001
	(AN * C * Y)	-0.00005	-0.00005	-0.00005
	(AN * C * Y)	-0.00012	-0.00012	-0.00011
	(AN * !C * Y)	0.00016	0.00016	0.00016
	(AN * !C * Y)	0.00001	0.00001	0.00001
	(AN * !C * Y)	-0.00006	-0.00006	-0.00006
	(AN * !C * Y)	-0.00012	-0.00012	-0.00012
	(!AN * !C * Y)	0.00019	0.00019	0.00021
	(!AN * !C * Y)	0.00001	0.00001	0.00001
	(!AN * !C * Y)	-0.00001	-0.00001	-0.00001
	(!AN * !C * Y)	-0.00020	-0.00019	-0.00017

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX0P7H7H	(AN * B * Y)	-0.00027	-0.00027	-0.00027
	(AN * B * Y)	-0.00001	-0.00001	-0.00001
	(AN * B * Y)	0.00002	0.00003	0.00003
	(AN * B * Y)	0.00008	0.00009	0.00010
	(!B * Y)	-0.00027	-0.00027	-0.00026
	(!B * Y)	-0.00001	-0.00001	-0.00001
	(!B * Y)	0.00003	0.00003	0.00003
	(!B * Y)	0.00007	0.00008	0.00008

Passive power(pJ) for C falling (conditional):

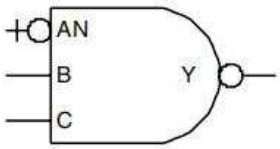
Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX0P7H7H	(AN * B * Y)	0.00027	0.00027	0.00027
	(AN * B * Y)	0.00001	0.00001	0.00001
	(AN * B * Y)	-0.00003	-0.00003	-0.00002
	(AN * B * Y)	-0.00008	-0.00008	-0.00008
	(!B * Y)	0.00027	0.00027	0.00027
	(!B * Y)	0.00001	0.00001	0.00001
	(!B * Y)	-0.00003	-0.00003	-0.00003
	(!B * Y)	-0.00008	-0.00008	-0.00007

NAND3BX1H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND3B cell provides the logical NAND of one inverted input (AN) and two non-inverted inputs (B, C). The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
AN	B	C	Y
x	0	x	1
x	1	0	1
0	1	1	0
1	1	1	1

Footprint

Cell Name	Area
NAND3BX1H7H	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	AN	B	C	Y
NAND3BX1H7H	0.00101	0.00091	0.00104	0.02185

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND3BX1H7H	0.00000	0.01393	0.02192

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3BX1H7H	AN->Y (RR)	0.05221	0.16038	0.41010
	B->Y (FR)	0.02630	0.15104	0.56161
	C->Y (FR)	0.02462	0.14752	0.56021

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3BX1H7H	AN->Y (FF)	0.08540	0.25753	0.67974
	B->Y (RF)	0.04791	0.22750	0.75012
	C->Y (RF)	0.04462	0.21863	0.73708

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3BX1H7H	AN	0.00106	0.00111	0.00115
	AN	-0.00009	-0.00009	-0.00009
	AN	0.00010	0.00011	0.00011
	AN	0.00111	0.00115	0.00120
	B	0.00098	0.00101	0.00104
	B	-0.00011	-0.00011	-0.00011
	B	0.00008	0.00008	0.00008
	B	-0.00010	-0.00007	-0.00004
	C	0.00082	0.00087	0.00091
	C	-0.00012	-0.00011	-0.00011
	C	0.00000	0.00003	0.00003
	C	-0.00012	-0.00007	0.00007

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3BX1H7H	AN	0.00105	0.00110	0.00114
	AN	0.00009	0.00009	0.00010
	AN	-0.00011	-0.00011	-0.00010
	AN	0.00107	0.00111	0.00116
	B	-0.00007	-0.00005	-0.00002
	B	0.00011	0.00012	0.00017
	B	-0.00008	-0.00008	-0.00008
	B	0.00105	0.00108	0.00111
	C	-0.00007	-0.00003	0.00001
	C	0.00011	0.00011	0.00012
	C	-0.00003	-0.00003	0.00000
	C	0.00086	0.00091	0.00095

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX1H7H	(B * !C * Y) + (!B * C * Y)	0.00004	0.00007	0.00010
	(B * !C * Y) + (!B * C * Y)	0.00003	0.00003	0.00003
	(B * !C * Y) + (!B * C * Y)	-0.00005	-0.00004	-0.00004
	(B * !C * Y) + (!B * C * Y)	0.00089	0.00091	0.00095
	(!B * !C * Y)	0.00005	0.00007	0.00010
	(!B * !C * Y)	0.00003	0.00003	0.00003
	(!B * !C * Y)	-0.00005	-0.00004	-0.00004
	(!B * !C * Y)	0.00088	0.00090	0.00094

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX1H7H	(B * !C * Y) + (!B * C * Y)	0.00085	0.00087	0.00090
	(B * !C * Y) + (!B * C * Y)	-0.00003	-0.00003	-0.00003
	(B * !C * Y) + (!B * C * Y)	0.00004	0.00004	0.00005
	(B * !C * Y) + (!B * C * Y)	0.00001	0.00003	0.00006
	(!B * !C * Y)	0.00084	0.00086	0.00090
	(!B * !C * Y)	-0.00003	-0.00003	-0.00003
	(!B * !C * Y)	0.00004	0.00004	0.00005
	(!B * !C * Y)	0.00002	0.00004	0.00006

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX1H7H	(AN * C * Y)	-0.00018	-0.00018	-0.00018
	(AN * C * Y)	-0.00001	-0.00001	-0.00001
	(AN * C * Y)	0.00005	0.00006	0.00006
	(AN * C * Y)	0.00012	0.00012	0.00012
	(AN * !C * Y)	-0.00018	-0.00018	-0.00018
	(AN * !C * Y)	-0.00001	-0.00001	-0.00001
	(AN * !C * Y)	0.00006	0.00006	0.00006
	(AN * !C * Y)	0.00012	0.00012	0.00012
	(!AN * !C * Y)	-0.00022	-0.00021	-0.00021
	(!AN * !C * Y)	-0.00001	-0.00001	-0.00001
	(!AN * !C * Y)	0.00002	0.00002	0.00002
	(!AN * !C * Y)	0.00021	0.00021	0.00022

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX1H7H	(AN * C * Y)	0.00018	0.00018	0.00018
	(AN * C * Y)	0.00001	0.00001	0.00001
	(AN * C * Y)	-0.00005	-0.00005	-0.00005
	(AN * C * Y)	-0.00012	-0.00012	-0.00012
	(AN * !C * Y)	0.00018	0.00018	0.00018
	(AN * !C * Y)	0.00001	0.00001	0.00001
	(AN * !C * Y)	-0.00006	-0.00006	-0.00006
	(AN * !C * Y)	-0.00012	-0.00012	-0.00012
	(!AN * !C * Y)	0.00022	0.00022	0.00023
	(!AN * !C * Y)	0.00001	0.00001	0.00001
	(!AN * !C * Y)	-0.00002	-0.00002	-0.00002
	(!AN * !C * Y)	-0.00021	-0.00020	-0.00018

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX1H7H	(AN * B * Y)	-0.00031	-0.00031	-0.00030
	(AN * B * Y)	-0.00001	-0.00001	-0.00001
	(AN * B * Y)	0.00003	0.00003	0.00003
	(AN * B * Y)	0.00006	0.00007	0.00007
	(!B * Y)	-0.00031	-0.00031	-0.00031
	(!B * Y)	-0.00001	-0.00001	-0.00001
	(!B * Y)	0.00003	0.00003	0.00003
	(!B * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for C falling (conditional):

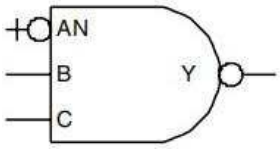
Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX1H7H	(AN * B * Y)	0.00031	0.00031	0.00032
	(AN * B * Y)	0.00001	0.00001	0.00001
	(AN * B * Y)	-0.00003	-0.00003	-0.00003
	(AN * B * Y)	-0.00007	-0.00006	-0.00006
	(!B * Y)	0.00031	0.00031	0.00031
	(!B * Y)	0.00001	0.00001	0.00001
	(!B * Y)	-0.00003	-0.00003	-0.00003
	(!B * Y)	-0.00006	-0.00006	-0.00006

NAND3BX1P4H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND3B cell provides the logical NAND of one inverted input (AN) and two non-inverted inputs (B, C). The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
AN	B	C	Y
x	0	x	1
x	1	0	1
0	1	1	0
1	1	1	1

Footprint

Cell Name	Area
NAND3BX1P4H7H	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	AN	B	C	Y
NAND3BX1P4H7H	0.00101	0.00097	0.00110	0.02470

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND3BX1P4H7H	0.00000	0.01600	0.02266

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3BX1P4H7H	AN->Y (RR)	0.05135	0.16014	0.41143
	B->Y (FR)	0.02454	0.14884	0.56046
	C->Y (FR)	0.02284	0.14525	0.55796

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3BX1P4H7H	AN->Y (FF)	0.08399	0.25770	0.68408
	B->Y (RF)	0.04496	0.22518	0.75162
	C->Y (RF)	0.04134	0.21557	0.73632

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3BX1P4H7H	AN	0.00115	0.00120	0.00125
	AN	-0.00011	-0.00011	-0.00011
	AN	0.00012	0.00012	0.00013
	AN	0.00112	0.00117	0.00122
	B	0.00103	0.00108	0.00111
	B	-0.00013	-0.00013	-0.00012
	B	0.00009	0.00009	0.00012
	B	-0.00014	-0.00010	-0.00007
	C	0.00086	0.00091	0.00097
	C	-0.00014	-0.00013	-0.00013
	C	0.00003	0.00003	0.00004
	C	-0.00016	-0.00010	-0.00005

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3BX1P4H7H	AN	0.00109	0.00113	0.00118
	AN	0.00011	0.00011	0.00012
	AN	-0.00013	-0.00012	-0.00012
	AN	0.00119	0.00123	0.00128
	B	-0.00008	-0.00005	-0.00002
	B	0.00013	0.00013	0.00013
	B	-0.00011	-0.00009	-0.00009
	B	0.00114	0.00117	0.00120
	C	-0.00008	-0.00003	0.00001
	C	0.00013	0.00013	0.00014
	C	-0.00003	-0.00003	-0.00003
	C	0.00093	0.00098	0.00103

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX1P4H7H	(B * !C * Y) + (!B * C * Y)	0.00007	0.00009	0.00012
	(B * !C * Y) + (!B * C * Y)	0.00003	0.00003	0.00003
	(B * !C * Y) + (!B * C * Y)	-0.00005	-0.00004	-0.00004
	(B * !C * Y) + (!B * C * Y)	0.00091	0.00094	0.00098
	(!B * !C * Y)	0.00007	0.00009	0.00012
	(!B * !C * Y)	0.00003	0.00003	0.00003
	(!B * !C * Y)	-0.00004	-0.00004	-0.00003
	(!B * !C * Y)	0.00090	0.00093	0.00097

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX1P4H7H	(B * !C * Y) + (!B * C * Y)	0.00086	0.00089	0.00092
	(B * !C * Y) + (!B * C * Y)	-0.00003	-0.00003	-0.00003
	(B * !C * Y) + (!B * C * Y)	0.00004	0.00004	0.00005
	(B * !C * Y) + (!B * C * Y)	0.00002	0.00004	0.00007
	(!B * !C * Y)	0.00086	0.00088	0.00091
	(!B * !C * Y)	-0.00003	-0.00003	-0.00003
	(!B * !C * Y)	0.00003	0.00004	0.00004
	(!B * !C * Y)	0.00003	0.00005	0.00009

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX1P4H7H	(AN * C * Y)	-0.00020	-0.00020	-0.00020
	(AN * C * Y)	-0.00001	-0.00001	-0.00001
	(AN * C * Y)	0.00006	0.00006	0.00006
	(AN * C * Y)	0.00012	0.00012	0.00012
	(AN * !C * Y)	-0.00020	-0.00020	-0.00020
	(AN * !C * Y)	-0.00001	-0.00001	-0.00001
	(AN * !C * Y)	0.00007	0.00007	0.00007
	(AN * !C * Y)	0.00012	0.00012	0.00012
	(!AN * !C * Y)	-0.00024	-0.00023	-0.00023
	(!AN * !C * Y)	-0.00001	-0.00001	-0.00001
	(!AN * !C * Y)	0.00002	0.00002	0.00002
	(!AN * !C * Y)	0.00023	0.00023	0.00023

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX1P4H7H	(AN * C * Y)	0.00020	0.00020	0.00021
	(AN * C * Y)	0.00001	0.00001	0.00001
	(AN * C * Y)	-0.00006	-0.00006	-0.00006
	(AN * C * Y)	-0.00012	-0.00012	-0.00012
	(AN * !C * Y)	0.00020	0.00020	0.00021
	(AN * !C * Y)	0.00001	0.00001	0.00002
	(AN * !C * Y)	-0.00007	-0.00007	-0.00007
	(AN * !C * Y)	-0.00012	-0.00012	-0.00012
	(!AN * !C * Y)	0.00023	0.00024	0.00025
	(!AN * !C * Y)	0.00001	0.00001	0.00002
	(!AN * !C * Y)	-0.00002	-0.00002	-0.00002
	(!AN * !C * Y)	-0.00023	-0.00021	-0.00020

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX1P4H7H	(AN * B * Y)	-0.00034	-0.00034	-0.00034
	(AN * B * Y)	-0.00001	-0.00001	-0.00001
	(AN * B * Y)	0.00002	0.00003	0.00004
	(AN * B * Y)	0.00007	0.00007	0.00008
	(!B * Y)	-0.00034	-0.00034	-0.00034
	(!B * Y)	-0.00001	-0.00001	-0.00001
	(!B * Y)	0.00003	0.00004	0.00004
	(!B * Y)	0.00006	0.00006	0.00007

Passive power(pJ) for C falling (conditional):

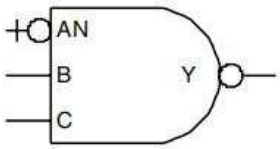
Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX1P4H7H	(AN * B * Y)	0.00034	0.00034	0.00034
	(AN * B * Y)	0.00001	0.00001	0.00001
	(AN * B * Y)	-0.00003	-0.00003	-0.00002
	(AN * B * Y)	-0.00006	-0.00006	-0.00006
	(!B * Y)	0.00034	0.00034	0.00034
	(!B * Y)	0.00001	0.00001	0.00001
	(!B * Y)	-0.00004	-0.00003	-0.00003
	(!B * Y)	-0.00006	-0.00006	-0.00006

NAND3BX2H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND3B cell provides the logical NAND of one inverted input (AN) and two non-inverted inputs (B, C). The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
AN	B	C	Y
x	0	x	1
x	1	0	1
0	1	1	0
1	1	1	1

Footprint

Cell Name	Area
NAND3BX2H7H	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	AN	B	C	Y
NAND3BX2H7H	0.00103	0.00117	0.00129	0.02901

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND3BX2H7H	0.00000	0.01990	0.03306

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3BX2H7H	AN->Y (RR)	0.05514	0.16720	0.42678
	B->Y (FR)	0.02535	0.15161	0.56693
	C->Y (FR)	0.02333	0.14771	0.56484

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3BX2H7H	AN->Y (FF)	0.08905	0.26503	0.69776
	B->Y (RF)	0.04598	0.22661	0.75331
	C->Y (RF)	0.04174	0.21623	0.73677

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3BX2H7H	AN	0.00145	0.00151	0.00157
	AN	-0.00014	-0.00014	-0.00014
	AN	0.00015	0.00015	0.00016
	AN	0.00131	0.00136	0.00142
	B	0.00131	0.00138	0.00142
	B	-0.00016	-0.00016	-0.00016
	B	0.00009	0.00011	0.00011
	B	-0.00008	-0.00003	0.00000
	C	0.00110	0.00116	0.00122
	C	-0.00016	-0.00016	-0.00015
	C	0.00004	0.00004	0.00004
	C	-0.00012	-0.00005	0.00001

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3BX2H7H	AN	0.00122	0.00127	0.00133
	AN	0.00014	0.00014	0.00014
	AN	-0.00016	-0.00015	-0.00015
	AN	0.00145	0.00151	0.00157
	B	-0.00011	-0.00007	-0.00004
	B	0.00016	0.00016	0.00016
	B	-0.00011	-0.00011	-0.00009
	B	0.00135	0.00139	0.00143
	C	-0.00009	-0.00003	0.00001
	C	0.00016	0.00016	0.00016
	C	-0.00004	-0.00004	-0.00004
	C	0.00112	0.00117	0.00123

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX2H7H	(B * !C * Y) + (!B * C * Y)	0.00010	0.00013	0.00016
	(B * !C * Y) + (!B * C * Y)	0.00003	0.00003	0.00003
	(B * !C * Y) + (!B * C * Y)	-0.00006	-0.00005	-0.00005
	(B * !C * Y) + (!B * C * Y)	0.00100	0.00103	0.00108
	(!B * !C * Y)	0.00010	0.00013	0.00016
	(!B * !C * Y)	0.00003	0.00003	0.00004
	(!B * !C * Y)	-0.00005	-0.00005	-0.00004
	(!B * !C * Y)	0.00099	0.00102	0.00105

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX2H7H	(B * !C * Y) + (!B * C * Y)	0.00095	0.00097	0.00101
	(B * !C * Y) + (!B * C * Y)	-0.00003	-0.00003	-0.00003
	(B * !C * Y) + (!B * C * Y)	0.00005	0.00005	0.00006
	(B * !C * Y) + (!B * C * Y)	0.00005	0.00008	0.00011
	(!B * !C * Y)	0.00094	0.00097	0.00101
	(!B * !C * Y)	-0.00004	-0.00003	-0.00003
	(!B * !C * Y)	0.00004	0.00005	0.00005
	(!B * !C * Y)	0.00006	0.00009	0.00013

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX2H7H	(AN * C * Y)	-0.00027	-0.00026	-0.00025
	(AN * C * Y)	-0.00001	-0.00001	-0.00001
	(AN * C * Y)	0.00007	0.00007	0.00007
	(AN * C * Y)	0.00013	0.00013	0.00013
	(AN * !C * Y)	-0.00027	-0.00026	-0.00026
	(AN * !C * Y)	-0.00002	-0.00001	-0.00001
	(AN * !C * Y)	0.00008	0.00008	0.00008
	(AN * !C * Y)	0.00013	0.00013	0.00013
	(!AN * !C * Y)	-0.00031	-0.00031	-0.00031
	(!AN * !C * Y)	-0.00002	-0.00002	-0.00001
	(!AN * !C * Y)	0.00002	0.00002	0.00002
	(!AN * !C * Y)	0.00023	0.00023	0.00023

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX2H7H	(AN * C * Y)	0.00026	0.00027	0.00027
	(AN * C * Y)	0.00001	0.00001	0.00001
	(AN * C * Y)	-0.00007	-0.00007	-0.00007
	(AN * C * Y)	-0.00013	-0.00013	-0.00013
	(AN * !C * Y)	0.00027	0.00027	0.00027
	(AN * !C * Y)	0.00001	0.00002	0.00002
	(AN * !C * Y)	-0.00008	-0.00008	-0.00008
	(AN * !C * Y)	-0.00013	-0.00013	-0.00013
	(!AN * !C * Y)	0.00031	0.00032	0.00033
	(!AN * !C * Y)	0.00001	0.00002	0.00002
	(!AN * !C * Y)	-0.00002	-0.00002	-0.00002
	(!AN * !C * Y)	-0.00023	-0.00021	-0.00019

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX2H7H	(AN * B * Y)	-0.00040	-0.00040	-0.00039
	(AN * B * Y)	-0.00002	-0.00001	-0.00001
	(AN * B * Y)	0.00003	0.00004	0.00004
	(AN * B * Y)	0.00007	0.00007	0.00008
	(!B * Y)	-0.00040	-0.00040	-0.00039
	(!B * Y)	-0.00001	-0.00001	-0.00001
	(!B * Y)	0.00004	0.00004	0.00005
	(!B * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for C falling (conditional):

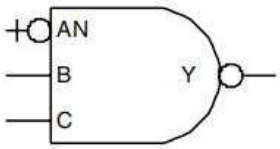
Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX2H7H	(AN * B * Y)	0.00039	0.00040	0.00040
	(AN * B * Y)	0.00001	0.00002	0.00002
	(AN * B * Y)	-0.00004	-0.00004	-0.00003
	(AN * B * Y)	-0.00007	-0.00006	-0.00006
	(!B * Y)	0.00040	0.00040	0.00040
	(!B * Y)	0.00001	0.00002	0.00002
	(!B * Y)	-0.00004	-0.00004	-0.00004
	(!B * Y)	-0.00006	-0.00006	-0.00006

NAND3BX3H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND3B cell provides the logical NAND of one inverted input (AN) and two non-inverted inputs (B, C). The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
AN	B	C	Y
x	0	x	1
x	1	0	1
0	1	1	0
1	1	1	1

Footprint

Cell Name	Area
NAND3BX3H7H	3.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	AN	B	C	Y
NAND3BX3H7H	0.00100	0.00189	0.00200	0.04534

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND3BX3H7H	0.00000	0.02379	0.04010

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3BX3H7H	AN->Y (RR)	0.06249	0.18105	0.45696
	B->Y (FR)	0.02401	0.14833	0.56102
	C->Y (FR)	0.02069	0.14216	0.55585

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3BX3H7H	AN->Y (FF)	0.10179	0.28584	0.74174
	B->Y (RF)	0.04448	0.22535	0.75465
	C->Y (RF)	0.03613	0.21040	0.73427

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3BX3H7H	AN	0.00249	0.00257	0.00264
	AN	-0.00022	-0.00022	-0.00019
	AN	0.00024	0.00024	0.00027
	AN	0.00169	0.00177	0.00184
	B	0.00203	0.00212	0.00219
	B	-0.00024	-0.00024	-0.00024
	B	0.00012	0.00017	0.00017
	B	-0.00021	-0.00013	-0.00006
	C	0.00162	0.00171	0.00180
	C	-0.00024	-0.00024	-0.00023
	C	0.00004	0.00006	0.00007
	C	-0.00026	-0.00015	-0.00006

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3BX3H7H	AN	0.00163	0.00170	0.00178
	AN	0.00022	0.00022	0.00023
	AN	-0.00027	-0.00024	-0.00024
	AN	0.00260	0.00268	0.00276
	B	-0.00009	-0.00003	0.00002
	B	0.00024	0.00024	0.00025
	B	-0.00017	-0.00017	-0.00012
	B	0.00227	0.00233	0.00238
	C	-0.00014	-0.00005	0.00002
	C	0.00024	0.00024	0.00024
	C	-0.00006	-0.00006	-0.00004
	C	0.00171	0.00181	0.00189

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX3H7H	(B * !C * Y) + (!B * C * Y)	0.00024	0.00027	0.00031
	(B * !C * Y) + (!B * C * Y)	0.00004	0.00004	0.00005
	(B * !C * Y) + (!B * C * Y)	-0.00007	-0.00006	-0.00006
	(B * !C * Y) + (!B * C * Y)	0.00113	0.00117	0.00122
	(!B * !C * Y)	0.00024	0.00027	0.00030
	(!B * !C * Y)	0.00004	0.00004	0.00004
	(!B * !C * Y)	-0.00006	-0.00006	-0.00006
	(!B * !C * Y)	0.00111	0.00114	0.00118

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX3H7H	(B * !C * Y) + (!B * C * Y)	0.00115	0.00118	0.00122
	(B * !C * Y) + (!B * C * Y)	-0.00005	-0.00004	-0.00004
	(B * !C * Y) + (!B * C * Y)	0.00006	0.00006	0.00007
	(B * !C * Y) + (!B * C * Y)	0.00027	0.00030	0.00034
	(!B * !C * Y)	0.00114	0.00117	0.00121
	(!B * !C * Y)	-0.00004	-0.00004	-0.00004
	(!B * !C * Y)	0.00006	0.00006	0.00006
	(!B * !C * Y)	0.00028	0.00031	0.00036

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX3H7H	(AN * C * Y)	-0.00040	-0.00040	-0.00040
	(AN * C * Y)	-0.00002	-0.00002	-0.00002
	(AN * C * Y)	0.00010	0.00010	0.00011
	(AN * C * Y)	0.00023	0.00023	0.00023
	(AN * !C * Y)	-0.00040	-0.00040	-0.00040
	(AN * !C * Y)	-0.00003	-0.00002	-0.00002
	(AN * !C * Y)	0.00012	0.00012	0.00012
	(AN * !C * Y)	0.00023	0.00023	0.00023
	(!AN * !C * Y)	-0.00039	-0.00039	-0.00038
	(!AN * !C * Y)	-0.00002	-0.00002	-0.00002
	(!AN * !C * Y)	0.00003	0.00003	0.00003
	(!AN * !C * Y)	0.00050	0.00051	0.00051

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX3H7H	(AN * C * Y)	0.00040	0.00040	0.00040
	(AN * C * Y)	0.00002	0.00002	0.00002
	(AN * C * Y)	-0.00010	-0.00010	-0.00010
	(AN * C * Y)	-0.00023	-0.00023	-0.00022
	(AN * !C * Y)	0.00040	0.00040	0.00041
	(AN * !C * Y)	0.00002	0.00002	0.00003
	(AN * !C * Y)	-0.00012	-0.00012	-0.00012
	(AN * !C * Y)	-0.00023	-0.00023	-0.00023
	(!AN * !C * Y)	0.00039	0.00040	0.00041
	(!AN * !C * Y)	0.00002	0.00002	0.00003
	(!AN * !C * Y)	-0.00003	-0.00003	-0.00003
	(!AN * !C * Y)	-0.00051	-0.00048	-0.00043

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX3H7H	(AN * B * Y)	-0.00061	-0.00060	-0.00059
	(AN * B * Y)	-0.00002	-0.00002	-0.00002
	(AN * B * Y)	0.00005	0.00006	0.00007
	(AN * B * Y)	0.00014	0.00015	0.00015
	(!B * Y)	-0.00061	-0.00061	-0.00060
	(!B * Y)	-0.00002	-0.00002	-0.00002
	(!B * Y)	0.00006	0.00006	0.00007
	(!B * Y)	0.00013	0.00014	0.00014

Passive power(pJ) for C falling (conditional):

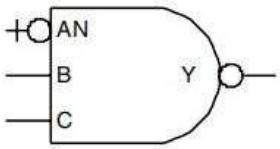
Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX3H7H	(AN * B * Y)	0.00060	0.00061	0.00061
	(AN * B * Y)	0.00002	0.00003	0.00003
	(AN * B * Y)	-0.00006	-0.00006	-0.00005
	(AN * B * Y)	-0.00014	-0.00014	-0.00013
	(!B * Y)	0.00060	0.00061	0.00061
	(!B * Y)	0.00002	0.00003	0.00003
	(!B * Y)	-0.00006	-0.00006	-0.00005
	(!B * Y)	-0.00014	-0.00014	-0.00013

NAND3BX4H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND3B cell provides the logical NAND of one inverted input (AN) and two non-inverted inputs (B, C). The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
AN	B	C	Y
x	0	x	1
x	1	0	1
0	1	1	0
1	1	1	1

Footprint

Cell Name	Area
NAND3BX4H7H	3.64000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	AN	B	C	Y
NAND3BX4H7H	0.00118	0.00230	0.00244	0.05686

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND3BX4H7H	0.00000	0.04020	0.07554

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3BX4H7H	AN->Y (RR)	0.05527	0.17222	0.44329
	B->Y (FR)	0.02339	0.14824	0.56248
	C->Y (FR)	0.02023	0.14244	0.55874

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3BX4H7H	AN->Y (FF)	0.08983	0.27148	0.71907
	B->Y (RF)	0.04355	0.22477	0.75605
	C->Y (RF)	0.03578	0.21020	0.73417

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3BX4H7H	AN	0.00312	0.00322	0.00333
	AN	-0.00029	-0.00029	-0.00028
	AN	0.00029	0.00031	0.00033
	AN	0.00207	0.00218	0.00229
	B	0.00254	0.00267	0.00277
	B	-0.00032	-0.00032	-0.00032
	B	0.00019	0.00022	0.00022
	B	-0.00024	-0.00013	-0.00005
	C	0.00205	0.00216	0.00229
	C	-0.00032	-0.00032	-0.00031
	C	0.00008	0.00008	0.00010
	C	-0.00031	-0.00018	-0.00007

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3BX4H7H	AN	0.00199	0.00209	0.00218
	AN	0.00028	0.00029	0.00029
	AN	-0.00033	-0.00031	-0.00029
	AN	0.00325	0.00334	0.00344
	B	-0.00013	-0.00004	0.00002
	B	0.00032	0.00032	0.00033
	B	-0.00022	-0.00022	-0.00019
	B	0.00280	0.00289	0.00296
	C	-0.00016	-0.00005	0.00004
	C	0.00032	0.00032	0.00033
	C	-0.00008	-0.00008	-0.00008
	C	0.00217	0.00229	0.00240

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX4H7H	(B * !C * Y) + (!B * C * Y)	0.00032	0.00035	0.00040
	(B * !C * Y) + (!B * C * Y)	0.00006	0.00006	0.00006
	(B * !C * Y) + (!B * C * Y)	-0.00010	-0.00009	-0.00008
	(B * !C * Y) + (!B * C * Y)	0.00141	0.00146	0.00152
	(!B * !C * Y)	0.00032	0.00035	0.00040
	(!B * !C * Y)	0.00006	0.00006	0.00006
	(!B * !C * Y)	-0.00009	-0.00009	-0.00008
	(!B * !C * Y)	0.00137	0.00142	0.00148

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX4H7H	(B * !C * Y) + (!B * C * Y)	0.00137	0.00140	0.00145
	(B * !C * Y) + (!B * C * Y)	-0.00006	-0.00006	-0.00006
	(B * !C * Y) + (!B * C * Y)	0.00008	0.00009	0.00010
	(B * !C * Y) + (!B * C * Y)	0.00028	0.00031	0.00036
	(!B * !C * Y)	0.00135	0.00138	0.00143
	(!B * !C * Y)	-0.00006	-0.00006	-0.00006
	(!B * !C * Y)	0.00008	0.00009	0.00009
	(!B * !C * Y)	0.00031	0.00034	0.00039

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX4H7H	(AN * C * Y)	-0.00053	-0.00053	-0.00052
	(AN * C * Y)	-0.00003	-0.00003	-0.00003
	(AN * C * Y)	0.00013	0.00014	0.00014
	(AN * C * Y)	0.00022	0.00022	0.00023
	(AN * !C * Y)	-0.00053	-0.00053	-0.00052
	(AN * !C * Y)	-0.00003	-0.00003	-0.00003
	(AN * !C * Y)	0.00015	0.00015	0.00016
	(AN * !C * Y)	0.00022	0.00022	0.00023
	(!AN * !C * Y)	-0.00054	-0.00053	-0.00053
	(!AN * !C * Y)	-0.00003	-0.00003	-0.00002
	(!AN * !C * Y)	0.00004	0.00004	0.00004
	(!AN * !C * Y)	0.00054	0.00054	0.00055

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX4H7H	(AN * C * Y)	0.00053	0.00053	0.00053
	(AN * C * Y)	0.00003	0.00003	0.00003
	(AN * C * Y)	-0.00013	-0.00013	-0.00013
	(AN * C * Y)	-0.00022	-0.00022	-0.00022
	(AN * !C * Y)	0.00053	0.00054	0.00054
	(AN * !C * Y)	0.00003	0.00003	0.00003
	(AN * !C * Y)	-0.00016	-0.00015	-0.00015
	(AN * !C * Y)	-0.00023	-0.00022	-0.00022
	(!AN * !C * Y)	0.00054	0.00054	0.00055
	(!AN * !C * Y)	0.00003	0.00003	0.00004
	(!AN * !C * Y)	-0.00004	-0.00004	-0.00004
	(!AN * !C * Y)	-0.00054	-0.00051	-0.00045

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX4H7H	(AN * B * Y)	-0.00076	-0.00076	-0.00074
	(AN * B * Y)	-0.00003	-0.00003	-0.00001
	(AN * B * Y)	0.00008	0.00009	0.00011
	(AN * B * Y)	0.00012	0.00015	0.00015
	(!B * Y)	-0.00077	-0.00076	-0.00075
	(!B * Y)	-0.00003	-0.00003	-0.00003
	(!B * Y)	0.00008	0.00008	0.00009
	(!B * Y)	0.00012	0.00014	0.00014

Passive power(pJ) for C falling (conditional):

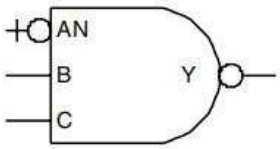
Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX4H7H	(AN * B * Y)	0.00075	0.00076	0.00077
	(AN * B * Y)	0.00003	0.00003	0.00003
	(AN * B * Y)	-0.00008	-0.00008	-0.00007
	(AN * B * Y)	-0.00014	-0.00014	-0.00012
	(!B * Y)	0.00076	0.00076	0.00077
	(!B * Y)	0.00003	0.00003	0.00003
	(!B * Y)	-0.00008	-0.00008	-0.00008
	(!B * Y)	-0.00014	-0.00013	-0.00012

NAND3BX6H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND3B cell provides the logical NAND of one inverted input (AN) and two non-inverted inputs (B, C). The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
AN	B	C	Y
x	0	x	1
x	1	0	1
0	1	1	0
1	1	1	1

Footprint

Cell Name	Area
NAND3BX6H7H	4.48000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	AN	B	C	Y
NAND3BX6H7H	0.00134	0.00340	0.00357	0.08495

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND3BX6H7H	0.00000	0.05900	0.11404

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3BX6H7H	AN->Y (RR)	0.05960	0.18094	0.46418
	B->Y (FR)	0.02226	0.14643	0.56129
	C->Y (FR)	0.01931	0.14095	0.55688

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3BX6H7H	AN->Y (FF)	0.09432	0.28040	0.74051
	B->Y (RF)	0.04099	0.22139	0.75226
	C->Y (RF)	0.03411	0.20790	0.73172

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3BX6H7H	AN	0.00461	0.00477	0.00489
	AN	-0.00044	-0.00044	-0.00039
	AN	0.00047	0.00048	0.00049
	AN	0.00277	0.00291	0.00303
	B	0.00375	0.00391	0.00406
	B	-0.00048	-0.00048	-0.00047
	B	0.00025	0.00033	0.00034
	B	-0.00042	-0.00026	-0.00015
	C	0.00303	0.00319	0.00336
	C	-0.00049	-0.00048	-0.00047
	C	0.00009	0.00012	0.00018
	C	-0.00046	-0.00026	-0.00009

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3BX6H7H	AN	0.00273	0.00287	0.00300
	AN	0.00043	0.00044	0.00045
	AN	-0.00049	-0.00048	-0.00047
	AN	0.00489	0.00503	0.00516
	B	-0.00019	-0.00006	0.00004
	B	0.00047	0.00048	0.00049
	B	-0.00034	-0.00033	-0.00025
	B	0.00418	0.00430	0.00440
	C	-0.00023	-0.00007	0.00006
	C	0.00047	0.00048	0.00049
	C	-0.00012	-0.00012	-0.00009
	C	0.00318	0.00338	0.00355

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX6H7H	(B * !C * Y) + (!B * C * Y)	0.00054	0.00058	0.00062
	(B * !C * Y) + (!B * C * Y)	0.00008	0.00009	0.00009
	(B * !C * Y) + (!B * C * Y)	-0.00014	-0.00013	-0.00012
	(B * !C * Y) + (!B * C * Y)	0.00185	0.00191	0.00198
	(!B * !C * Y)	0.00054	0.00058	0.00063
	(!B * !C * Y)	0.00008	0.00009	0.00009
	(!B * !C * Y)	-0.00013	-0.00012	-0.00011
	(!B * !C * Y)	0.00180	0.00185	0.00190

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX6H7H	(B * !C * Y) + (!B * C * Y)	0.00182	0.00185	0.00190
	(B * !C * Y) + (!B * C * Y)	-0.00009	-0.00009	-0.00008
	(B * !C * Y) + (!B * C * Y)	0.00012	0.00013	0.00014
	(B * !C * Y) + (!B * C * Y)	0.00051	0.00055	0.00061
	(!B * !C * Y)	0.00180	0.00183	0.00189
	(!B * !C * Y)	-0.00009	-0.00009	-0.00008
	(!B * !C * Y)	0.00011	0.00012	0.00013
	(!B * !C * Y)	0.00055	0.00059	0.00063

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX6H7H	(AN * C * Y)	-0.00079	-0.00078	-0.00077
	(AN * C * Y)	-0.00004	-0.00004	-0.00002
	(AN * C * Y)	0.00021	0.00021	0.00021
	(AN * C * Y)	0.00032	0.00033	0.00033
	(AN * !C * Y)	-0.00079	-0.00078	-0.00077
	(AN * !C * Y)	-0.00005	-0.00004	-0.00004
	(AN * !C * Y)	0.00024	0.00024	0.00024
	(AN * !C * Y)	0.00032	0.00033	0.00033
	(!AN * !C * Y)	-0.00080	-0.00079	-0.00078
	(!AN * !C * Y)	-0.00004	-0.00004	-0.00004
	(!AN * !C * Y)	0.00006	0.00006	0.00007
	(!AN * !C * Y)	0.00081	0.00082	0.00082

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX6H7H	(AN * C * Y)	0.00078	0.00078	0.00079
	(AN * C * Y)	0.00004	0.00004	0.00005
	(AN * C * Y)	-0.00021	-0.00021	-0.00020
	(AN * C * Y)	-0.00033	-0.00033	-0.00032
	(AN * !C * Y)	0.00079	0.00079	0.00080
	(AN * !C * Y)	0.00004	0.00005	0.00005
	(AN * !C * Y)	-0.00024	-0.00024	-0.00024
	(AN * !C * Y)	-0.00033	-0.00033	-0.00032
	(!AN * !C * Y)	0.00080	0.00081	0.00084
	(!AN * !C * Y)	0.00004	0.00004	0.00005
	(!AN * !C * Y)	-0.00007	-0.00006	-0.00006
	(!AN * !C * Y)	-0.00081	-0.00076	-0.00067

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX6H7H	(AN * B * Y)	-0.00113	-0.00112	-0.00109
	(AN * B * Y)	-0.00004	-0.00004	-0.00004
	(AN * B * Y)	0.00012	0.00013	0.00013
	(AN * B * Y)	0.00020	0.00021	0.00021
	(!B * Y)	-0.00113	-0.00112	-0.00111
	(!B * Y)	-0.00005	-0.00004	-0.00004
	(!B * Y)	0.00012	0.00013	0.00013
	(!B * Y)	0.00018	0.00018	0.00020

Passive power(pJ) for C falling (conditional):

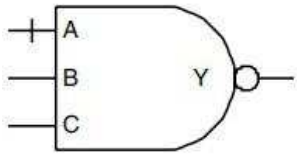
Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX6H7H	(AN * B * Y)	0.00111	0.00112	0.00113
	(AN * B * Y)	0.00004	0.00004	0.00004
	(AN * B * Y)	-0.00012	-0.00012	-0.00012
	(AN * B * Y)	-0.00018	-0.00018	-0.00018
	(!B * Y)	0.00112	0.00113	0.00113
	(!B * Y)	0.00004	0.00005	0.00005
	(!B * Y)	-0.00013	-0.00012	-0.00012
	(!B * Y)	-0.00019	-0.00018	-0.00018

NAND3X0P5H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND3 cell provides the logical NAND of three inputs (A, B, C). The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	x	x	1
1	0	x	1
1	1	0	1
1	1	1	0

Footprint

Cell Name	Area
NAND3X0P5H7H	1.40000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
NAND3X0P5H7H	0.00077	0.00083	0.00092	0.01707

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND3X0P5H7H	0.00000	0.00604	0.02185

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3X0P5H7H	A->Y (FR)	0.03281	0.16360	0.57976
	B->Y (FR)	0.03158	0.16048	0.57661
	C->Y (FR)	0.02916	0.15616	0.57292

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3X0P5H7H	A->Y (RF)	0.05515	0.22662	0.70831
	B->Y (RF)	0.05481	0.23175	0.74420
	C->Y (RF)	0.05052	0.22408	0.73952

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3X0P5H7H	A	0.00098	0.00101	0.00103
	A	-0.00008	-0.00008	-0.00008
	A	0.00009	0.00009	0.00009
	A	-0.00011	-0.00009	-0.00008
	B	0.00089	0.00092	0.00095
	B	-0.00008	-0.00008	-0.00008
	B	0.00006	0.00006	0.00006
	B	-0.00006	-0.00003	-0.00000
	C	0.00077	0.00081	0.00085
	C	-0.00008	-0.00008	-0.00007
	C	0.00000	0.00003	0.00017
	C	-0.00018	-0.00005	0.00022

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3X0P5H7H	A	-0.00009	-0.00007	-0.00005
	A	0.00008	0.00008	0.00008
	A	-0.00009	-0.00009	-0.00009
	A	0.00108	0.00110	0.00111
	B	-0.00010	-0.00007	-0.00005
	B	0.00008	0.00008	0.00008
	B	-0.00006	-0.00006	-0.00006
	B	0.00088	0.00090	0.00093
	C	-0.00012	-0.00008	-0.00005
	C	0.00008	0.00008	0.00008
	C	-0.00002	-0.00002	0.00000
	C	0.00074	0.00078	0.00082

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X0P5H7H	(B * !C * Y)	-0.00013	-0.00013	-0.00013
	(B * !C * Y)	-0.00001	-0.00001	-0.00001
	(B * !C * Y)	0.00001	0.00001	0.00001
	(B * !C * Y)	0.00023	0.00024	0.00024
	(!B * C * Y)	-0.00013	-0.00013	-0.00013
	(!B * C * Y)	-0.00001	-0.00001	-0.00001
	(!B * C * Y)	0.00001	0.00001	0.00001
	(!B * C * Y)	0.00024	0.00024	0.00024
	(!B * !C * Y)	-0.00013	-0.00013	-0.00013
	(!B * !C * Y)	-0.00001	-0.00001	-0.00001
	(!B * !C * Y)	0.00001	0.00001	0.00001
	(!B * !C * Y)	0.00024	0.00024	0.00024

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X0P5H7H	(B * !C * Y)	0.00013	0.00013	0.00013
	(B * !C * Y)	0.00001	0.00001	0.00001
	(B * !C * Y)	-0.00001	-0.00001	-0.00001
	(B * !C * Y)	-0.00024	-0.00023	-0.00021
	(!B * C * Y)	0.00013	0.00013	0.00013
	(!B * C * Y)	0.00001	0.00001	0.00001
	(!B * C * Y)	-0.00001	-0.00001	-0.00001
	(!B * C * Y)	-0.00024	-0.00023	-0.00022
	(!B * !C * Y)	0.00013	0.00013	0.00013
	(!B * !C * Y)	0.00001	0.00001	0.00001
	(!B * !C * Y)	-0.00001	-0.00001	-0.00001
	(!B * !C * Y)	-0.00024	-0.00023	-0.00022

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X0P5H7H	(A * !C * Y)	-0.00016	-0.00016	-0.00016
	(A * !C * Y)	-0.00001	-0.00001	-0.00001
	(A * !C * Y)	0.00001	0.00001	0.00001
	(A * !C * Y)	0.00018	0.00018	0.00018
	(!A * C * Y)	-0.00016	-0.00016	-0.00016
	(!A * C * Y)	-0.00001	-0.00001	-0.00001
	(!A * C * Y)	0.00004	0.00004	0.00004
	(!A * C * Y)	0.00006	0.00006	0.00006
	(!A * !C * Y)	-0.00016	-0.00016	-0.00016
	(!A * !C * Y)	-0.00001	-0.00001	-0.00001
	(!A * !C * Y)	0.00005	0.00005	0.00005
	(!A * !C * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X0P5H7H	(A * !C * Y)	0.00016	0.00016	0.00017
	(A * !C * Y)	0.00001	0.00001	0.00001
	(A * !C * Y)	-0.00001	-0.00001	-0.00001
	(A * !C * Y)	-0.00018	-0.00017	-0.00015
	(!A * C * Y)	0.00016	0.00016	0.00016
	(!A * C * Y)	0.00001	0.00001	0.00001
	(!A * C * Y)	-0.00004	-0.00004	-0.00004
	(!A * C * Y)	-0.00006	-0.00006	-0.00006
	(!A * !C * Y)	0.00016	0.00016	0.00016
	(!A * !C * Y)	0.00001	0.00001	0.00001
	(!A * !C * Y)	-0.00005	-0.00005	-0.00005
	(!A * !C * Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X0P5H7H	(!B * Y)	-0.00025	-0.00025	-0.00025
	(!B * Y)	-0.00001	-0.00001	-0.00001
	(!B * Y)	0.00003	0.00003	0.00003
	(!B * Y)	0.00008	0.00008	0.00008
	(!A * B * Y)	-0.00025	-0.00025	-0.00025
	(!A * B * Y)	-0.00001	-0.00001	-0.00001
	(!A * B * Y)	0.00003	0.00003	0.00003
	(!A * B * Y)	0.00008	0.00008	0.00008

Passive power(pJ) for C falling (conditional):

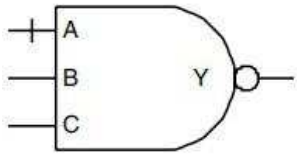
Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X0P5H7H	(!B * Y)	0.00025	0.00025	0.00025
	(!B * Y)	0.00001	0.00001	0.00001
	(!B * Y)	-0.00003	-0.00003	-0.00003
	(!B * Y)	-0.00008	-0.00008	-0.00008
	(!A * B * Y)	0.00025	0.00025	0.00025
	(!A * B * Y)	0.00001	0.00001	0.00001
	(!A * B * Y)	-0.00003	-0.00003	-0.00002
	(!A * B * Y)	-0.00008	-0.00008	-0.00008

NAND3X0P7H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND3 cell provides the logical NAND of three inputs (A, B, C). The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	x	x	1
1	0	x	1
1	1	0	1
1	1	1	0

Footprint

Cell Name	Area
NAND3X0P7H7H	1.40000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
NAND3X0P7H7H	0.00081	0.00086	0.00095	0.01899

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND3X0P7H7H	0.00000	0.00666	0.02038

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3X0P7H7H	A->Y (FR)	0.03027	0.15942	0.57389
	B->Y (FR)	0.02902	0.15624	0.57054
	C->Y (FR)	0.02678	0.15207	0.56706

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3X0P7H7H	A->Y (RF)	0.05210	0.22509	0.71360
	B->Y (RF)	0.05131	0.22904	0.74487
	C->Y (RF)	0.04694	0.22012	0.73620

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3X0P7H7H	A	0.00104	0.00107	0.00109
	A	-0.00009	-0.00009	-0.00009
	A	0.00011	0.00011	0.00011
	A	-0.00013	-0.00011	-0.00009
	B	0.00093	0.00097	0.00099
	B	-0.00009	-0.00009	-0.00009
	B	0.00007	0.00007	0.00008
	B	-0.00007	-0.00004	-0.00002
	C	0.00081	0.00085	0.00089
	C	-0.00009	-0.00009	-0.00009
	C	0.00002	0.00003	0.00008
	C	-0.00011	-0.00006	-0.00003

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3X0P7H7H	A	-0.00010	-0.00008	-0.00006
	A	0.00009	0.00009	0.00009
	A	-0.00011	-0.00011	-0.00011
	A	0.00115	0.00117	0.00119
	B	-0.00011	-0.00008	-0.00006
	B	0.00009	0.00009	0.00009
	B	-0.00008	-0.00007	-0.00007
	B	0.00092	0.00096	0.00098
	C	-0.00013	-0.00009	-0.00006
	C	0.00009	0.00009	0.00009
	C	-0.00003	-0.00002	-0.00002
	C	0.00078	0.00082	0.00086

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X0P7H7H	(B * !C * Y)	-0.00015	-0.00014	-0.00014
	(B * !C * Y)	-0.00001	-0.00001	-0.00001
	(B * !C * Y)	0.00002	0.00002	0.00002
	(B * !C * Y)	0.00024	0.00024	0.00024
	(!B * C * Y)	-0.00014	-0.00014	-0.00014
	(!B * C * Y)	-0.00001	-0.00001	-0.00001
	(!B * C * Y)	0.00001	0.00001	0.00001
	(!B * C * Y)	0.00025	0.00025	0.00025
	(!B * !C * Y)	-0.00014	-0.00014	-0.00014
	(!B * !C * Y)	-0.00001	-0.00001	-0.00001
	(!B * !C * Y)	0.00001	0.00002	0.00002
	(!B * !C * Y)	0.00024	0.00024	0.00025

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X0P7H7H	(B * !C * Y)	0.00014	0.00015	0.00015
	(B * !C * Y)	0.00001	0.00001	0.00001
	(B * !C * Y)	-0.00002	-0.00002	-0.00001
	(B * !C * Y)	-0.00024	-0.00023	-0.00022
	(!B * C * Y)	0.00014	0.00015	0.00015
	(!B * C * Y)	0.00001	0.00001	0.00001
	(!B * C * Y)	-0.00001	-0.00001	-0.00001
	(!B * C * Y)	-0.00025	-0.00024	-0.00023
	(!B * !C * Y)	0.00014	0.00015	0.00015
	(!B * !C * Y)	0.00001	0.00001	0.00001
	(!B * !C * Y)	-0.00002	-0.00002	-0.00001
	(!B * !C * Y)	-0.00025	-0.00024	-0.00022

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X0P7H7H	(A * !C * Y)	-0.00017	-0.00017	-0.00017
	(A * !C * Y)	-0.00001	-0.00001	-0.00001
	(A * !C * Y)	0.00001	0.00001	0.00001
	(A * !C * Y)	0.00018	0.00018	0.00019
	(!A * C * Y)	-0.00017	-0.00017	-0.00017
	(!A * C * Y)	-0.00001	-0.00001	-0.00001
	(!A * C * Y)	0.00004	0.00005	0.00005
	(!A * C * Y)	0.00005	0.00005	0.00005
	(!A * !C * Y)	-0.00017	-0.00017	-0.00017
	(!A * !C * Y)	-0.00001	-0.00001	-0.00001
	(!A * !C * Y)	0.00005	0.00005	0.00005
	(!A * !C * Y)	0.00005	0.00005	0.00005

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X0P7H7H	(A * !C * Y)	0.00017	0.00018	0.00018
	(A * !C * Y)	0.00001	0.00001	0.00001
	(A * !C * Y)	-0.00001	-0.00001	-0.00001
	(A * !C * Y)	-0.00019	-0.00017	-0.00015
	(!A * C * Y)	0.00017	0.00017	0.00017
	(!A * C * Y)	0.00001	0.00001	0.00001
	(!A * C * Y)	-0.00004	-0.00004	-0.00004
	(!A * C * Y)	-0.00005	-0.00005	-0.00005
	(!A * !C * Y)	0.00017	0.00017	0.00018
	(!A * !C * Y)	0.00001	0.00001	0.00001
	(!A * !C * Y)	-0.00005	-0.00005	-0.00005
	(!A * !C * Y)	-0.00005	-0.00005	-0.00005

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X0P7H7H	(!B * Y)	-0.00027	-0.00027	-0.00027
	(!B * Y)	-0.00001	-0.00001	-0.00001
	(!B * Y)	0.00003	0.00003	0.00003
	(!B * Y)	0.00007	0.00007	0.00007
	(!A * B * Y)	-0.00027	-0.00027	-0.00027
	(!A * B * Y)	-0.00001	-0.00001	-0.00001
	(!A * B * Y)	0.00003	0.00003	0.00003
	(!A * B * Y)	0.00007	0.00007	0.00008

Passive power(pJ) for C falling (conditional):

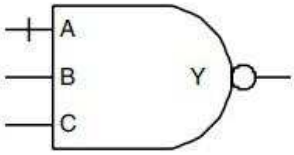
Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X0P7H7H	(!B * Y)	0.00027	0.00027	0.00027
	(!B * Y)	0.00001	0.00001	0.00001
	(!B * Y)	-0.00003	-0.00003	-0.00003
	(!B * Y)	-0.00007	-0.00007	-0.00007
	(!A * B * Y)	0.00027	0.00027	0.00027
	(!A * B * Y)	0.00001	0.00001	0.00001
	(!A * B * Y)	-0.00003	-0.00003	-0.00003
	(!A * B * Y)	-0.00007	-0.00007	-0.00007

NAND3X1H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND3 cell provides the logical NAND of three inputs (A, B, C). The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	x	x	1
1	0	x	1
1	1	0	1
1	1	1	0

Footprint

Cell Name	Area
NAND3X1H7H	1.40000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
NAND3X1H7H	0.00087	0.00091	0.00105	0.02175

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND3X1H7H	0.00000	0.00817	0.01868

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3X1H7H	A->Y (FR)	0.02730	0.15350	0.56348
	B->Y (FR)	0.02597	0.15020	0.55992
	C->Y (FR)	0.02415	0.14641	0.55634

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3X1H7H	A->Y (RF)	0.04890	0.22340	0.71769
	B->Y (RF)	0.04737	0.22598	0.74713
	C->Y (RF)	0.04343	0.21670	0.73409

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3X1H7H	A	0.00113	0.00116	0.00119
	A	-0.00011	-0.00011	-0.00011
	A	0.00012	0.00013	0.00013
	A	-0.00016	-0.00013	-0.00012
	B	0.00100	0.00104	0.00107
	B	-0.00011	-0.00011	-0.00011
	B	0.00008	0.00008	0.00008
	B	-0.00011	-0.00007	-0.00005
	C	0.00085	0.00092	0.00096
	C	-0.00012	-0.00011	-0.00011
	C	0.00003	0.00003	0.00003
	C	-0.00014	-0.00009	-0.00004

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3X1H7H	A	-0.00012	-0.00009	-0.00007
	A	0.00011	0.00011	0.00012
	A	-0.00013	-0.00013	-0.00012
	A	0.00127	0.00129	0.00131
	B	-0.00012	-0.00009	-0.00007
	B	0.00011	0.00011	0.00012
	B	-0.00008	-0.00008	-0.00008
	B	0.00103	0.00106	0.00108
	C	-0.00015	-0.00011	-0.00007
	C	0.00011	0.00011	0.00012
	C	-0.00003	-0.00003	-0.00003
	C	0.00085	0.00089	0.00094

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X1H7H	(B * !C * Y)	-0.00017	-0.00016	-0.00016
	(B * !C * Y)	-0.00001	-0.00001	-0.00001
	(B * !C * Y)	0.00002	0.00002	0.00002
	(B * !C * Y)	0.00025	0.00025	0.00025
	(!B * C * Y)	-0.00017	-0.00017	-0.00017
	(!B * C * Y)	-0.00001	-0.00001	-0.00001
	(!B * C * Y)	0.00002	0.00002	0.00002
	(!B * C * Y)	0.00026	0.00026	0.00026
	(!B * !C * Y)	-0.00017	-0.00016	-0.00016
	(!B * !C * Y)	-0.00001	-0.00001	-0.00001
	(!B * !C * Y)	0.00002	0.00002	0.00002
	(!B * !C * Y)	0.00026	0.00026	0.00026

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X1H7H	(B * !C * Y)	0.00016	0.00016	0.00017
	(B * !C * Y)	0.00001	0.00001	0.00001
	(B * !C * Y)	-0.00002	-0.00002	-0.00002
	(B * !C * Y)	-0.00025	-0.00024	-0.00022
	(!B * C * Y)	0.00017	0.00017	0.00017
	(!B * C * Y)	0.00001	0.00001	0.00001
	(!B * C * Y)	-0.00002	-0.00002	-0.00002
	(!B * C * Y)	-0.00026	-0.00025	-0.00024
	(!B * !C * Y)	0.00016	0.00017	0.00017
	(!B * !C * Y)	0.00001	0.00001	0.00001
	(!B * !C * Y)	-0.00002	-0.00002	-0.00002
	(!B * !C * Y)	-0.00026	-0.00025	-0.00023

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X1H7H	(A * !C * Y)	-0.00018	-0.00018	-0.00018
	(A * !C * Y)	-0.00001	-0.00001	-0.00001
	(A * !C * Y)	0.00002	0.00002	0.00002
	(A * !C * Y)	0.00021	0.00021	0.00021
	(!A * C * Y)	-0.00019	-0.00018	-0.00018
	(!A * C * Y)	-0.00001	-0.00001	-0.00001
	(!A * C * Y)	0.00005	0.00006	0.00006
	(!A * C * Y)	0.00006	0.00006	0.00006
	(!A * !C * Y)	-0.00018	-0.00018	-0.00018
	(!A * !C * Y)	-0.00001	-0.00001	-0.00001
	(!A * !C * Y)	0.00006	0.00006	0.00006
	(!A * !C * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X1H7H	(A * !C * Y)	0.00018	0.00019	0.00020
	(A * !C * Y)	0.00001	0.00001	0.00001
	(A * !C * Y)	-0.00002	-0.00002	-0.00002
	(A * !C * Y)	-0.00021	-0.00020	-0.00018
	(!A * C * Y)	0.00018	0.00018	0.00019
	(!A * C * Y)	0.00001	0.00001	0.00001
	(!A * C * Y)	-0.00005	-0.00005	-0.00005
	(!A * C * Y)	-0.00006	-0.00006	-0.00006
	(!A * !C * Y)	0.00018	0.00019	0.00019
	(!A * !C * Y)	0.00001	0.00001	0.00001
	(!A * !C * Y)	-0.00006	-0.00006	-0.00006
	(!A * !C * Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X1H7H	(!B * Y)	-0.00031	-0.00030	-0.00030
	(!B * Y)	-0.00001	-0.00001	-0.00001
	(!B * Y)	0.00003	0.00003	0.00003
	(!B * Y)	0.00007	0.00007	0.00007
	(!A * B * Y)	-0.00031	-0.00030	-0.00030
	(!A * B * Y)	-0.00001	-0.00001	-0.00001
	(!A * B * Y)	0.00003	0.00003	0.00003
	(!A * B * Y)	0.00007	0.00007	0.00007

Passive power(pJ) for C falling (conditional):

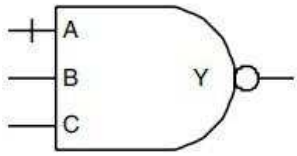
Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X1H7H	(!B * Y)	0.00030	0.00030	0.00031
	(!B * Y)	0.00001	0.00001	0.00001
	(!B * Y)	-0.00003	-0.00003	-0.00003
	(!B * Y)	-0.00007	-0.00007	-0.00007
	(!A * B * Y)	0.00030	0.00030	0.00031
	(!A * B * Y)	0.00001	0.00001	0.00001
	(!A * B * Y)	-0.00003	-0.00003	-0.00003
	(!A * B * Y)	-0.00007	-0.00007	-0.00007

NAND3X1P4H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND3 cell provides the logical NAND of three inputs (A, B, C). The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	x	x	1
1	0	x	1
1	1	0	1
1	1	1	0

Footprint

Cell Name	Area
NAND3X1P4H7H	1.40000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
NAND3X1P4H7H	0.00096	0.00100	0.00111	0.02455

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND3X1P4H7H	0.00000	0.01024	0.01942

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3X1P4H7H	A->Y (FR)	0.02577	0.15155	0.56177
	B->Y (FR)	0.02453	0.14833	0.55847
	C->Y (FR)	0.02251	0.14429	0.55521

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3X1P4H7H	A->Y (RF)	0.04660	0.22201	0.72102
	B->Y (RF)	0.04506	0.22427	0.74867
	C->Y (RF)	0.04049	0.21383	0.73199

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3X1P4H7H	A	0.00123	0.00126	0.00129
	A	-0.00013	-0.00013	-0.00013
	A	0.00014	0.00015	0.00015
	A	-0.00019	-0.00016	-0.00014
	B	0.00107	0.00113	0.00116
	B	-0.00013	-0.00013	-0.00013
	B	0.00009	0.00009	0.00009
	B	-0.00014	-0.00010	-0.00007
	C	0.00092	0.00098	0.00103
	C	-0.00013	-0.00013	-0.00013
	C	0.00003	0.00003	0.00008
	C	-0.00018	-0.00012	-0.00007

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3X1P4H7H	A	-0.00014	-0.00011	-0.00008
	A	0.00013	0.00013	0.00014
	A	-0.00015	-0.00015	-0.00014
	A	0.00139	0.00142	0.00144
	B	-0.00014	-0.00011	-0.00008
	B	0.00013	0.00013	0.00014
	B	-0.00009	-0.00009	-0.00009
	B	0.00113	0.00116	0.00119
	C	-0.00017	-0.00012	-0.00008
	C	0.00013	0.00013	0.00014
	C	-0.00003	-0.00003	-0.00003
	C	0.00091	0.00097	0.00102

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X1P4H7H	(B * !C * Y)	-0.00019	-0.00019	-0.00019
	(B * !C * Y)	-0.00001	-0.00001	-0.00001
	(B * !C * Y)	0.00002	0.00002	0.00002
	(B * !C * Y)	0.00026	0.00026	0.00026
	(!B * C * Y)	-0.00019	-0.00019	-0.00019
	(!B * C * Y)	-0.00001	-0.00001	-0.00001
	(!B * C * Y)	0.00002	0.00002	0.00002
	(!B * C * Y)	0.00027	0.00027	0.00027
	(!B * !C * Y)	-0.00019	-0.00019	-0.00019
	(!B * !C * Y)	-0.00001	-0.00001	-0.00001
	(!B * !C * Y)	0.00002	0.00002	0.00002
	(!B * !C * Y)	0.00026	0.00027	0.00027

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X1P4H7H	(B * !C * Y)	0.00019	0.00019	0.00019
	(B * !C * Y)	0.00001	0.00001	0.00001
	(B * !C * Y)	-0.00002	-0.00002	-0.00002
	(B * !C * Y)	-0.00026	-0.00025	-0.00023
	(!B * C * Y)	0.00019	0.00019	0.00019
	(!B * C * Y)	0.00001	0.00001	0.00001
	(!B * C * Y)	-0.00002	-0.00002	-0.00002
	(!B * C * Y)	-0.00027	-0.00026	-0.00024
	(!B * !C * Y)	0.00019	0.00019	0.00019
	(!B * !C * Y)	0.00001	0.00001	0.00001
	(!B * !C * Y)	-0.00002	-0.00002	-0.00002
	(!B * !C * Y)	-0.00027	-0.00026	-0.00024

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X1P4H7H	(A * !C * Y)	-0.00021	-0.00021	-0.00021
	(A * !C * Y)	-0.00001	-0.00001	-0.00001
	(A * !C * Y)	0.00002	0.00002	0.00002
	(A * !C * Y)	0.00021	0.00021	0.00021
	(!A * C * Y)	-0.00022	-0.00021	-0.00021
	(!A * C * Y)	-0.00001	-0.00001	-0.00001
	(!A * C * Y)	0.00006	0.00006	0.00006
	(!A * C * Y)	0.00005	0.00006	0.00006
	(!A * !C * Y)	-0.00022	-0.00021	-0.00021
	(!A * !C * Y)	-0.00001	-0.00001	-0.00001
	(!A * !C * Y)	0.00007	0.00007	0.00007
	(!A * !C * Y)	0.00005	0.00006	0.00006

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X1P4H7H	(A * !C * Y)	0.00021	0.00022	0.00023
	(A * !C * Y)	0.00001	0.00001	0.00001
	(A * !C * Y)	-0.00002	-0.00002	-0.00002
	(A * !C * Y)	-0.00021	-0.00020	-0.00018
	(!A * C * Y)	0.00021	0.00021	0.00022
	(!A * C * Y)	0.00001	0.00001	0.00001
	(!A * C * Y)	-0.00006	-0.00006	-0.00006
	(!A * C * Y)	-0.00006	-0.00006	-0.00005
	(!A * !C * Y)	0.00022	0.00022	0.00022
	(!A * !C * Y)	0.00001	0.00001	0.00001
	(!A * !C * Y)	-0.00007	-0.00007	-0.00007
	(!A * !C * Y)	-0.00006	-0.00006	-0.00005

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X1P4H7H	(!B * Y)	-0.00033	-0.00033	-0.00032
	(!B * Y)	-0.00001	-0.00001	-0.00001
	(!B * Y)	0.00004	0.00004	0.00004
	(!B * Y)	0.00007	0.00007	0.00007
	(!A * B * Y)	-0.00033	-0.00033	-0.00032
	(!A * B * Y)	-0.00001	-0.00001	-0.00001
	(!A * B * Y)	0.00004	0.00004	0.00004
	(!A * B * Y)	0.00006	0.00007	0.00007

Passive power(pJ) for C falling (conditional):

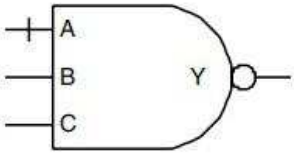
Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X1P4H7H	(!B * Y)	0.00032	0.00033	0.00033
	(!B * Y)	0.00001	0.00001	0.00001
	(!B * Y)	-0.00004	-0.00004	-0.00004
	(!B * Y)	-0.00007	-0.00007	-0.00007
	(!A * B * Y)	0.00032	0.00033	0.00033
	(!A * B * Y)	0.00001	0.00001	0.00001
	(!A * B * Y)	-0.00004	-0.00004	-0.00004
	(!A * B * Y)	-0.00007	-0.00007	-0.00006

NAND3X2H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND3 cell provides the logical NAND of three inputs (A, B, C). The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	x	x	1
1	0	x	1
1	1	0	1
1	1	1	0

Footprint

Cell Name	Area
NAND3X2H7H	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
NAND3X2H7H	0.00165	0.00161	0.00172	0.03403

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND3X2H7H	0.00000	0.01213	0.04370

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3X2H7H	A->Y (FR)	0.03068	0.16233	0.58160
	B->Y (FR)	0.02827	0.15719	0.57664
	C->Y (FR)	0.02419	0.15010	0.57135

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3X2H7H	A->Y (RF)	0.05237	0.22740	0.71680
	B->Y (RF)	0.04946	0.22826	0.74865
	C->Y (RF)	0.04065	0.21483	0.73829

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3X2H7H	A	0.00209	0.00218	0.00224
	A	-0.00016	-0.00016	-0.00016
	A	0.00018	0.00018	0.00019
	A	-0.00023	-0.00018	-0.00014
	B	0.00177	0.00186	0.00192
	B	-0.00016	-0.00016	-0.00016
	B	0.00010	0.00012	0.00014
	B	-0.00022	-0.00015	-0.00009
	C	0.00145	0.00152	0.00160
	C	-0.00016	-0.00016	-0.00015
	C	0.00003	0.00004	0.00005
	C	-0.00029	-0.00020	-0.00013

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3X2H7H	A	-0.00020	-0.00014	-0.00011
	A	0.00016	0.00016	0.00016
	A	-0.00019	-0.00018	-0.00018
	A	0.00234	0.00239	0.00243
	B	-0.00020	-0.00015	-0.00011
	B	0.00016	0.00016	0.00016
	B	-0.00013	-0.00012	-0.00010
	B	0.00190	0.00195	0.00199
	C	-0.00024	-0.00017	-0.00011
	C	0.00015	0.00016	0.00016
	C	-0.00005	-0.00004	-0.00003
	C	0.00147	0.00155	0.00163

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X2H7H	(B * !C * Y)	-0.00029	-0.00029	-0.00029
	(B * !C * Y)	-0.00002	-0.00002	-0.00002
	(B * !C * Y)	0.00003	0.00003	0.00004
	(B * !C * Y)	0.00045	0.00046	0.00046
	(!B * C * Y)	-0.00029	-0.00029	-0.00029
	(!B * C * Y)	-0.00002	-0.00002	-0.00002
	(!B * C * Y)	0.00003	0.00003	0.00003
	(!B * C * Y)	0.00047	0.00047	0.00047
	(!B * !C * Y)	-0.00029	-0.00029	-0.00029
	(!B * !C * Y)	-0.00002	-0.00002	-0.00002
	(!B * !C * Y)	0.00003	0.00003	0.00003
	(!B * !C * Y)	0.00047	0.00047	0.00047

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X2H7H	(B * !C * Y)	0.00029	0.00030	0.00030
	(B * !C * Y)	0.00002	0.00002	0.00002
	(B * !C * Y)	-0.00004	-0.00003	-0.00003
	(B * !C * Y)	-0.00046	-0.00044	-0.00040
	(!B * C * Y)	0.00029	0.00029	0.00029
	(!B * C * Y)	0.00002	0.00002	0.00002
	(!B * C * Y)	-0.00003	-0.00003	-0.00003
	(!B * C * Y)	-0.00047	-0.00045	-0.00041
	(!B * !C * Y)	0.00029	0.00029	0.00029
	(!B * !C * Y)	0.00002	0.00002	0.00002
	(!B * !C * Y)	-0.00003	-0.00003	-0.00003
	(!B * !C * Y)	-0.00047	-0.00045	-0.00041

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X2H7H	(A * !C * Y)	-0.00030	-0.00030	-0.00030
	(A * !C * Y)	-0.00002	-0.00002	-0.00002
	(A * !C * Y)	0.00002	0.00002	0.00002
	(A * !C * Y)	0.00046	0.00046	0.00046
	(!A * C * Y)	-0.00031	-0.00031	-0.00031
	(!A * C * Y)	-0.00002	-0.00002	-0.00002
	(!A * C * Y)	0.00007	0.00007	0.00007
	(!A * C * Y)	0.00016	0.00016	0.00016
	(!A * !C * Y)	-0.00032	-0.00032	-0.00031
	(!A * !C * Y)	-0.00002	-0.00002	-0.00002
	(!A * !C * Y)	0.00008	0.00009	0.00009
	(!A * !C * Y)	0.00016	0.00016	0.00016

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X2H7H	(A * !C * Y)	0.00030	0.00031	0.00032
	(A * !C * Y)	0.00002	0.00002	0.00002
	(A * !C * Y)	-0.00002	-0.00002	-0.00002
	(A * !C * Y)	-0.00046	-0.00044	-0.00039
	(!A * C * Y)	0.00031	0.00032	0.00032
	(!A * C * Y)	0.00002	0.00002	0.00002
	(!A * C * Y)	-0.00007	-0.00007	-0.00007
	(!A * C * Y)	-0.00016	-0.00016	-0.00016
	(!A * !C * Y)	0.00031	0.00032	0.00032
	(!A * !C * Y)	0.00002	0.00002	0.00002
	(!A * !C * Y)	-0.00009	-0.00009	-0.00008
	(!A * !C * Y)	-0.00016	-0.00016	-0.00016

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X2H7H	(!B * Y)	-0.00050	-0.00050	-0.00049
	(!B * Y)	-0.00002	-0.00002	-0.00002
	(!B * Y)	0.00004	0.00004	0.00004
	(!B * Y)	0.00018	0.00018	0.00019
	(!A * B * Y)	-0.00050	-0.00049	-0.00049
	(!A * B * Y)	-0.00002	-0.00002	-0.00002
	(!A * B * Y)	0.00004	0.00004	0.00005
	(!A * B * Y)	0.00017	0.00017	0.00018

Passive power(pJ) for C falling (conditional):

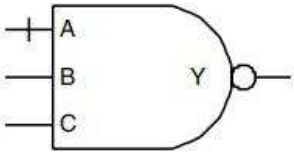
Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X2H7H	(!B * Y)	0.00050	0.00050	0.00050
	(!B * Y)	0.00002	0.00002	0.00002
	(!B * Y)	-0.00004	-0.00004	-0.00004
	(!B * Y)	-0.00018	-0.00018	-0.00018
	(!A * B * Y)	0.00049	0.00050	0.00050
	(!A * B * Y)	0.00002	0.00002	0.00002
	(!A * B * Y)	-0.00004	-0.00004	-0.00004
	(!A * B * Y)	-0.00017	-0.00017	-0.00017

NAND3X3H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND3 cell provides the logical NAND of three inputs (A, B, C). The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	x	x	1
1	0	x	1
1	1	0	1
1	1	1	0

Footprint

Cell Name	Area
NAND3X3H7H	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
NAND3X3H7H	0.00190	0.00192	0.00200	0.04528

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND3X3H7H	0.00000	0.01804	0.03686

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3X3H7H	A->Y (FR)	0.02561	0.15219	0.56410
	B->Y (FR)	0.02387	0.14790	0.56042
	C->Y (FR)	0.02072	0.14200	0.55542

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3X3H7H	A->Y (RF)	0.04634	0.22319	0.72366
	B->Y (RF)	0.04378	0.22324	0.74968
	C->Y (RF)	0.03602	0.20943	0.73088

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3X3H7H	A	0.00251	0.00261	0.00267
	A	-0.00024	-0.00024	-0.00023
	A	0.00026	0.00026	0.00027
	A	-0.00029	-0.00023	-0.00018
	B	0.00218	0.00226	0.00234
	B	-0.00024	-0.00024	-0.00024
	B	0.00014	0.00017	0.00020
	B	-0.00028	-0.00020	-0.00013
	C	0.00178	0.00186	0.00196
	C	-0.00024	-0.00024	-0.00023
	C	0.00004	0.00006	0.00007
	C	-0.00032	-0.00021	-0.00012

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3X3H7H	A	-0.00026	-0.00020	-0.00015
	A	0.00023	0.00024	0.00025
	A	-0.00027	-0.00026	-0.00026
	A	0.00281	0.00287	0.00292
	B	-0.00027	-0.00020	-0.00015
	B	0.00024	0.00024	0.00025
	B	-0.00019	-0.00017	-0.00014
	B	0.00230	0.00236	0.00241
	C	-0.00031	-0.00023	-0.00015
	C	0.00023	0.00024	0.00025
	C	-0.00006	-0.00006	-0.00004
	C	0.00171	0.00186	0.00194

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X3H7H	(B * !C * Y)	-0.00038	-0.00038	-0.00038
	(B * !C * Y)	-0.00003	-0.00002	-0.00002
	(B * !C * Y)	0.00004	0.00004	0.00004
	(B * !C * Y)	0.00048	0.00048	0.00048
	(!B * C * Y)	-0.00038	-0.00038	-0.00038
	(!B * C * Y)	-0.00003	-0.00002	-0.00002
	(!B * C * Y)	0.00004	0.00004	0.00004
	(!B * C * Y)	0.00050	0.00050	0.00050
	(!B * !C * Y)	-0.00038	-0.00038	-0.00038
	(!B * !C * Y)	-0.00002	-0.00002	-0.00002
	(!B * !C * Y)	0.00004	0.00004	0.00004
	(!B * !C * Y)	0.00049	0.00049	0.00050

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X3H7H	(B * !C * Y)	0.00038	0.00038	0.00039
	(B * !C * Y)	0.00002	0.00003	0.00003
	(B * !C * Y)	-0.00004	-0.00004	-0.00004
	(B * !C * Y)	-0.00048	-0.00045	-0.00040
	(!B * C * Y)	0.00038	0.00038	0.00038
	(!B * C * Y)	0.00002	0.00003	0.00003
	(!B * C * Y)	-0.00004	-0.00004	-0.00004
	(!B * C * Y)	-0.00050	-0.00047	-0.00043
	(!B * !C * Y)	0.00038	0.00038	0.00038
	(!B * !C * Y)	0.00002	0.00002	0.00003
	(!B * !C * Y)	-0.00004	-0.00004	-0.00004
	(!B * !C * Y)	-0.00049	-0.00047	-0.00042

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X3H7H	(A * !C * Y)	-0.00040	-0.00040	-0.00039
	(A * !C * Y)	-0.00002	-0.00002	-0.00002
	(A * !C * Y)	0.00003	0.00003	0.00003
	(A * !C * Y)	0.00050	0.00051	0.00051
	(!A * C * Y)	-0.00042	-0.00042	-0.00041
	(!A * C * Y)	-0.00002	-0.00002	-0.00002
	(!A * C * Y)	0.00010	0.00010	0.00011
	(!A * C * Y)	0.00015	0.00015	0.00015
	(!A * !C * Y)	-0.00042	-0.00042	-0.00042
	(!A * !C * Y)	-0.00002	-0.00002	-0.00002
	(!A * !C * Y)	0.00012	0.00012	0.00012
	(!A * !C * Y)	0.00015	0.00015	0.00015

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X3H7H	(A * !C * Y)	0.00040	0.00041	0.00042
	(A * !C * Y)	0.00002	0.00002	0.00003
	(A * !C * Y)	-0.00003	-0.00003	-0.00003
	(A * !C * Y)	-0.00051	-0.00048	-0.00043
	(!A * C * Y)	0.00042	0.00042	0.00042
	(!A * C * Y)	0.00002	0.00003	0.00003
	(!A * C * Y)	-0.00010	-0.00010	-0.00010
	(!A * C * Y)	-0.00015	-0.00015	-0.00015
	(!A * !C * Y)	0.00042	0.00043	0.00043
	(!A * !C * Y)	0.00002	0.00002	0.00003
	(!A * !C * Y)	-0.00012	-0.00012	-0.00012
	(!A * !C * Y)	-0.00015	-0.00015	-0.00015

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X3H7H	(!B * Y)	-0.00061	-0.00061	-0.00061
	(!B * Y)	-0.00002	-0.00002	-0.00002
	(!B * Y)	0.00006	0.00006	0.00006
	(!B * Y)	0.00017	0.00017	0.00017
	(!A * B * Y)	-0.00061	-0.00061	-0.00061
	(!A * B * Y)	-0.00002	-0.00002	-0.00002
	(!A * B * Y)	0.00006	0.00006	0.00006
	(!A * B * Y)	0.00015	0.00015	0.00015

Passive power(pJ) for C falling (conditional):

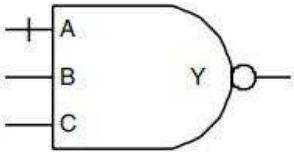
Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X3H7H	(!B * Y)	0.00061	0.00061	0.00062
	(!B * Y)	0.00002	0.00002	0.00003
	(!B * Y)	-0.00006	-0.00006	-0.00006
	(!B * Y)	-0.00017	-0.00017	-0.00017
	(!A * B * Y)	0.00061	0.00061	0.00062
	(!A * B * Y)	0.00002	0.00003	0.00003
	(!A * B * Y)	-0.00006	-0.00006	-0.00006
	(!A * B * Y)	-0.00015	-0.00015	-0.00015

NAND3X4H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND3 cell provides the logical NAND of three inputs (A, B, C). The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	x	x	1
1	0	x	1
1	1	0	1
1	1	1	0

Footprint

Cell Name	Area
NAND3X4H7H	5.04000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
NAND3X4H7H	0.00308	0.00311	0.00348	0.06750

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND3X4H7H	0.00000	0.02425	0.08739

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3X4H7H	A->Y (FR)	0.02884	0.15976	0.57920
	B->Y (FR)	0.02670	0.15488	0.57511
	C->Y (FR)	0.02339	0.14874	0.57030

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3X4H7H	A->Y (RF)	0.04907	0.22382	0.71465
	B->Y (RF)	0.04661	0.22535	0.74761
	C->Y (RF)	0.03951	0.21390	0.73967

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3X4H7H	A	0.00418	0.00438	0.00449
	A	-0.00032	-0.00032	-0.00028
	A	0.00037	0.00037	0.00037
	A	-0.00032	-0.00022	-0.00014
	B	0.00366	0.00380	0.00392
	B	-0.00032	-0.00032	-0.00032
	B	0.00021	0.00023	0.00025
	B	-0.00030	-0.00016	-0.00006
	C	0.00307	0.00324	0.00341
	C	-0.00032	-0.00032	-0.00030
	C	0.00004	0.00009	0.00012
	C	-0.00035	-0.00016	0.00000

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3X4H7H	A	-0.00038	-0.00028	-0.00021
	A	0.00032	0.00032	0.00033
	A	-0.00037	-0.00037	-0.00037
	A	0.00456	0.00465	0.00472
	B	-0.00038	-0.00029	-0.00021
	B	0.00032	0.00032	0.00033
	B	-0.00025	-0.00023	-0.00021
	B	0.00375	0.00384	0.00392
	C	-0.00049	-0.00034	-0.00021
	C	0.00031	0.00032	0.00033
	C	-0.00009	-0.00008	-0.00004
	C	0.00291	0.00306	0.00321

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X4H7H	(B * !C * Y)	-0.00057	-0.00057	-0.00056
	(B * !C * Y)	-0.00004	-0.00004	-0.00003
	(B * !C * Y)	0.00005	0.00006	0.00006
	(B * !C * Y)	0.00084	0.00085	0.00085
	(!B * C * Y)	-0.00056	-0.00056	-0.00056
	(!B * C * Y)	-0.00004	-0.00004	-0.00004
	(!B * C * Y)	0.00005	0.00005	0.00005
	(!B * C * Y)	0.00086	0.00087	0.00088
	(!B * !C * Y)	-0.00056	-0.00056	-0.00056
	(!B * !C * Y)	-0.00004	-0.00004	-0.00004
	(!B * !C * Y)	0.00005	0.00006	0.00006
	(!B * !C * Y)	0.00086	0.00086	0.00087

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X4H7H	(B * !C * Y)	0.00057	0.00057	0.00057
	(B * !C * Y)	0.00004	0.00004	0.00004
	(B * !C * Y)	-0.00006	-0.00006	-0.00005
	(B * !C * Y)	-0.00085	-0.00079	-0.00071
	(!B * C * Y)	0.00056	0.00056	0.00057
	(!B * C * Y)	0.00004	0.00004	0.00004
	(!B * C * Y)	-0.00005	-0.00005	-0.00005
	(!B * C * Y)	-0.00088	-0.00083	-0.00076
	(!B * !C * Y)	0.00056	0.00056	0.00057
	(!B * !C * Y)	0.00004	0.00004	0.00004
	(!B * !C * Y)	-0.00006	-0.00005	-0.00005
	(!B * !C * Y)	-0.00087	-0.00083	-0.00075

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X4H7H	(A * !C * Y)	-0.00058	-0.00058	-0.00057
	(A * !C * Y)	-0.00004	-0.00004	-0.00004
	(A * !C * Y)	0.00005	0.00005	0.00005
	(A * !C * Y)	0.00088	0.00088	0.00089
	(!A * C * Y)	-0.00061	-0.00061	-0.00060
	(!A * C * Y)	-0.00004	-0.00004	-0.00004
	(!A * C * Y)	0.00015	0.00015	0.00016
	(!A * C * Y)	0.00026	0.00027	0.00027
	(!A * !C * Y)	-0.00062	-0.00061	-0.00061
	(!A * !C * Y)	-0.00004	-0.00004	-0.00004
	(!A * !C * Y)	0.00018	0.00018	0.00018
	(!A * !C * Y)	0.00027	0.00027	0.00028

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X4H7H	(A * !C * Y)	0.00058	0.00060	0.00064
	(A * !C * Y)	0.00004	0.00004	0.00004
	(A * !C * Y)	-0.00005	-0.00005	-0.00005
	(A * !C * Y)	-0.00089	-0.00083	-0.00073
	(!A * C * Y)	0.00061	0.00061	0.00062
	(!A * C * Y)	0.00004	0.00004	0.00004
	(!A * C * Y)	-0.00015	-0.00015	-0.00015
	(!A * C * Y)	-0.00027	-0.00027	-0.00026
	(!A * !C * Y)	0.00061	0.00062	0.00062
	(!A * !C * Y)	0.00004	0.00004	0.00004
	(!A * !C * Y)	-0.00018	-0.00018	-0.00018
	(!A * !C * Y)	-0.00027	-0.00027	-0.00027

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X4H7H	(!B * Y)	-0.00105	-0.00104	-0.00103
	(!B * Y)	-0.00004	-0.00004	-0.00004
	(!B * Y)	0.00008	0.00009	0.00009
	(!B * Y)	0.00026	0.00027	0.00027
	(!A * B * Y)	-0.00104	-0.00103	-0.00103
	(!A * B * Y)	-0.00004	-0.00004	-0.00004
	(!A * B * Y)	0.00009	0.00009	0.00010
	(!A * B * Y)	0.00024	0.00025	0.00026

Passive power(pJ) for C falling (conditional):

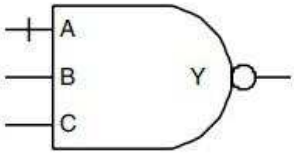
Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X4H7H	(!B * Y)	0.00104	0.00104	0.00105
	(!B * Y)	0.00004	0.00004	0.00005
	(!B * Y)	-0.00008	-0.00008	-0.00008
	(!B * Y)	-0.00027	-0.00027	-0.00026
	(!A * B * Y)	0.00104	0.00104	0.00105
	(!A * B * Y)	0.00004	0.00004	0.00005
	(!A * B * Y)	-0.00009	-0.00008	-0.00008
	(!A * B * Y)	-0.00025	-0.00025	-0.00024

NAND3X6H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND3 cell provides the logical NAND of three inputs (A, B, C). The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	x	x	1
1	0	x	1
1	1	0	1
1	1	1	0

Footprint

Cell Name	Area
NAND3X6H7H	4.20000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
NAND3X6H7H	0.00325	0.00329	0.00343	0.08567

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND3X6H7H	0.00000	0.04245	0.08945

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3X6H7H	A->Y (FR)	0.02259	0.14929	0.56551
	B->Y (FR)	0.02091	0.14499	0.56196
	C->Y (FR)	0.01793	0.13931	0.55744

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3X6H7H	A->Y (RF)	0.04112	0.21901	0.72685
	B->Y (RF)	0.03833	0.21877	0.75270
	C->Y (RF)	0.03106	0.20497	0.73288

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3X6H7H	A	0.00430	0.00452	0.00464
	A	-0.00048	-0.00048	-0.00048
	A	0.00051	0.00052	0.00053
	A	-0.00061	-0.00050	-0.00041
	B	0.00370	0.00388	0.00401
	B	-0.00049	-0.00048	-0.00040
	B	0.00030	0.00033	0.00034
	B	-0.00059	-0.00044	-0.00034
	C	0.00301	0.00318	0.00334
	C	-0.00049	-0.00048	-0.00047
	C	0.00010	0.00012	0.00014
	C	-0.00064	-0.00044	-0.00029

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3X6H7H	A	-0.00050	-0.00038	-0.00030
	A	0.00048	0.00048	0.00049
	A	-0.00053	-0.00052	-0.00051
	A	0.00492	0.00503	0.00512
	B	-0.00050	-0.00038	-0.00030
	B	0.00048	0.00048	0.00049
	B	-0.00034	-0.00033	-0.00030
	B	0.00401	0.00412	0.00422
	C	-0.00058	-0.00042	-0.00030
	C	0.00047	0.00048	0.00049
	C	-0.00012	-0.00012	-0.00010
	C	0.00299	0.00320	0.00335

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X6H7H	(B * !C * Y)	-0.00071	-0.00070	-0.00070
	(B * !C * Y)	-0.00005	-0.00004	-0.00004
	(B * !C * Y)	0.00008	0.00008	0.00008
	(B * !C * Y)	0.00079	0.00079	0.00079
	(!B * C * Y)	-0.00070	-0.00070	-0.00069
	(!B * C * Y)	-0.00004	-0.00004	-0.00004
	(!B * C * Y)	0.00007	0.00007	0.00007
	(!B * C * Y)	0.00082	0.00082	0.00083
	(!B * !C * Y)	-0.00070	-0.00070	-0.00070
	(!B * !C * Y)	-0.00005	-0.00004	-0.00004
	(!B * !C * Y)	0.00007	0.00007	0.00008
	(!B * !C * Y)	0.00081	0.00081	0.00082

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X6H7H	(B * !C * Y)	0.00070	0.00071	0.00071
	(B * !C * Y)	0.00004	0.00004	0.00005
	(B * !C * Y)	-0.00008	-0.00008	-0.00008
	(B * !C * Y)	-0.00079	-0.00073	-0.00065
	(!B * C * Y)	0.00070	0.00070	0.00070
	(!B * C * Y)	0.00004	0.00004	0.00005
	(!B * C * Y)	-0.00007	-0.00007	-0.00007
	(!B * C * Y)	-0.00082	-0.00077	-0.00070
	(!B * !C * Y)	0.00070	0.00070	0.00071
	(!B * !C * Y)	0.00004	0.00004	0.00005
	(!B * !C * Y)	-0.00008	-0.00007	-0.00007
	(!B * !C * Y)	-0.00081	-0.00077	-0.00070

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X6H7H	(A * !C * Y)	-0.00072	-0.00071	-0.00071
	(A * !C * Y)	-0.00004	-0.00004	-0.00004
	(A * !C * Y)	0.00006	0.00006	0.00007
	(A * !C * Y)	0.00082	0.00083	0.00083
	(!A * C * Y)	-0.00073	-0.00073	-0.00072
	(!A * C * Y)	-0.00004	-0.00004	-0.00004
	(!A * C * Y)	0.00021	0.00021	0.00022
	(!A * C * Y)	0.00018	0.00018	0.00019
	(!A * !C * Y)	-0.00073	-0.00073	-0.00072
	(!A * !C * Y)	-0.00004	-0.00004	-0.00004
	(!A * !C * Y)	0.00025	0.00025	0.00025
	(!A * !C * Y)	0.00018	0.00019	0.00019

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X6H7H	(A * !C * Y)	0.00071	0.00073	0.00077
	(A * !C * Y)	0.00004	0.00004	0.00004
	(A * !C * Y)	-0.00007	-0.00006	-0.00006
	(A * !C * Y)	-0.00082	-0.00077	-0.00068
	(!A * C * Y)	0.00073	0.00073	0.00073
	(!A * C * Y)	0.00004	0.00005	0.00005
	(!A * C * Y)	-0.00021	-0.00021	-0.00021
	(!A * C * Y)	-0.00019	-0.00018	-0.00018
	(!A * !C * Y)	0.00073	0.00074	0.00074
	(!A * !C * Y)	0.00004	0.00004	0.00005
	(!A * !C * Y)	-0.00025	-0.00025	-0.00025
	(!A * !C * Y)	-0.00019	-0.00018	-0.00018

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X6H7H	(!B * Y)	-0.00107	-0.00107	-0.00106
	(!B * Y)	-0.00005	-0.00004	-0.00004
	(!B * Y)	0.00013	0.00013	0.00013
	(!B * Y)	0.00019	0.00019	0.00020
	(!A * B * Y)	-0.00107	-0.00106	-0.00104
	(!A * B * Y)	-0.00004	-0.00004	-0.00004
	(!A * B * Y)	0.00012	0.00013	0.00013
	(!A * B * Y)	0.00017	0.00017	0.00018

Passive power(pJ) for C falling (conditional):

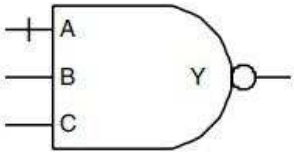
Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X6H7H	(!B * Y)	0.00106	0.00107	0.00108
	(!B * Y)	0.00004	0.00004	0.00005
	(!B * Y)	-0.00012	-0.00012	-0.00012
	(!B * Y)	-0.00019	-0.00019	-0.00019
	(!A * B * Y)	0.00106	0.00107	0.00108
	(!A * B * Y)	0.00004	0.00004	0.00005
	(!A * B * Y)	-0.00012	-0.00012	-0.00012
	(!A * B * Y)	-0.00018	-0.00017	-0.00017

NAND3X8H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND3 cell provides the logical NAND of three inputs (A, B, C). The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	x	x	1
1	0	x	1
1	1	0	1
1	1	1	0

Footprint

Cell Name	Area
NAND3X8H7H	5.60000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
NAND3X8H7H	0.00434	0.00434	0.00451	0.11373

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND3X8H7H	0.00000	0.05677	0.11926

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3X8H7H	A->Y (FR)	0.02243	0.14901	0.56492
	B->Y (FR)	0.02074	0.14465	0.56125
	C->Y (FR)	0.01769	0.13874	0.55659

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3X8H7H	A->Y (RF)	0.04104	0.21882	0.72633
	B->Y (RF)	0.03810	0.21834	0.75157
	C->Y (RF)	0.03052	0.20425	0.73148

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3X8H7H	A	0.00582	0.00611	0.00628
	A	-0.00064	-0.00064	-0.00062
	A	0.00068	0.00070	0.00070
	A	-0.00076	-0.00061	-0.00049
	B	0.00500	0.00524	0.00542
	B	-0.00065	-0.00064	-0.00063
	B	0.00033	0.00044	0.00055
	B	-0.00077	-0.00057	-0.00042
	C	0.00405	0.00428	0.00449
	C	-0.00065	-0.00064	-0.00062
	C	0.00011	0.00016	0.00017
	C	-0.00083	-0.00057	-0.00036

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3X8H7H	A	-0.00068	-0.00052	-0.00040
	A	0.00062	0.00064	0.00066
	A	-0.00070	-0.00070	-0.00068
	A	0.00660	0.00675	0.00687
	B	-0.00067	-0.00052	-0.00040
	B	0.00063	0.00064	0.00065
	B	-0.00050	-0.00044	-0.00033
	B	0.00541	0.00554	0.00568
	C	-0.00077	-0.00057	-0.00040
	C	0.00062	0.00064	0.00065
	C	-0.00016	-0.00016	-0.00011
	C	0.00402	0.00429	0.00450

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X8H7H	(B * !C * Y)	-0.00095	-0.00095	-0.00095
	(B * !C * Y)	-0.00006	-0.00006	-0.00005
	(B * !C * Y)	0.00010	0.00011	0.00011
	(B * !C * Y)	0.00104	0.00105	0.00105
	(!B * C * Y)	-0.00095	-0.00095	-0.00094
	(!B * C * Y)	-0.00006	-0.00006	-0.00005
	(!B * C * Y)	0.00009	0.00009	0.00009
	(!B * C * Y)	0.00108	0.00109	0.00110
	(!B * !C * Y)	-0.00095	-0.00094	-0.00094
	(!B * !C * Y)	-0.00007	-0.00006	-0.00006
	(!B * !C * Y)	0.00010	0.00010	0.00010
	(!B * !C * Y)	0.00107	0.00108	0.00108

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X8H7H	(B * !C * Y)	0.00095	0.00095	0.00096
	(B * !C * Y)	0.00006	0.00006	0.00006
	(B * !C * Y)	-0.00011	-0.00010	-0.00010
	(B * !C * Y)	-0.00105	-0.00097	-0.00086
	(!B * C * Y)	0.00094	0.00095	0.00095
	(!B * C * Y)	0.00006	0.00006	0.00006
	(!B * C * Y)	-0.00009	-0.00009	-0.00009
	(!B * C * Y)	-0.00109	-0.00102	-0.00093
	(!B * !C * Y)	0.00094	0.00095	0.00095
	(!B * !C * Y)	0.00006	0.00006	0.00007
	(!B * !C * Y)	-0.00010	-0.00010	-0.00010
	(!B * !C * Y)	-0.00108	-0.00102	-0.00092

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X8H7H	(A * !C * Y)	-0.00097	-0.00096	-0.00095
	(A * !C * Y)	-0.00006	-0.00006	-0.00005
	(A * !C * Y)	0.00008	0.00009	0.00009
	(A * !C * Y)	0.00111	0.00112	0.00112
	(!A * C * Y)	-0.00099	-0.00098	-0.00097
	(!A * C * Y)	-0.00006	-0.00006	-0.00005
	(!A * C * Y)	0.00027	0.00028	0.00028
	(!A * C * Y)	0.00027	0.00028	0.00028
	(!A * !C * Y)	-0.00099	-0.00098	-0.00097
	(!A * !C * Y)	-0.00006	-0.00006	-0.00005
	(!A * !C * Y)	0.00032	0.00032	0.00032
	(!A * !C * Y)	0.00028	0.00028	0.00029

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X8H7H	(A * !C * Y)	0.00097	0.00098	0.00102
	(A * !C * Y)	0.00006	0.00006	0.00006
	(A * !C * Y)	-0.00009	-0.00009	-0.00008
	(A * !C * Y)	-0.00112	-0.00104	-0.00093
	(!A * C * Y)	0.00098	0.00099	0.00099
	(!A * C * Y)	0.00006	0.00006	0.00006
	(!A * C * Y)	-0.00027	-0.00027	-0.00027
	(!A * C * Y)	-0.00028	-0.00028	-0.00027
	(!A * !C * Y)	0.00099	0.00100	0.00100
	(!A * !C * Y)	0.00006	0.00006	0.00006
	(!A * !C * Y)	-0.00032	-0.00032	-0.00032
	(!A * !C * Y)	-0.00028	-0.00028	-0.00028

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X8H7H	(!B * Y)	-0.00144	-0.00143	-0.00142
	(!B * Y)	-0.00006	-0.00006	-0.00005
	(!B * Y)	0.00016	0.00016	0.00017
	(!B * Y)	0.00026	0.00027	0.00027
	(!A * B * Y)	-0.00144	-0.00143	-0.00140
	(!A * B * Y)	-0.00006	-0.00006	-0.00005
	(!A * B * Y)	0.00016	0.00017	0.00017
	(!A * B * Y)	0.00022	0.00024	0.00024

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X8H7H	(!B * Y)	0.00142	0.00144	0.00144
	(!B * Y)	0.00005	0.00006	0.00006
	(!B * Y)	-0.00016	-0.00016	-0.00015
	(!B * Y)	-0.00027	-0.00026	-0.00026
	(!A * B * Y)	0.00142	0.00143	0.00144
	(!A * B * Y)	0.00006	0.00006	0.00006
	(!A * B * Y)	-0.00016	-0.00016	-0.00015
	(!A * B * Y)	-0.00024	-0.00024	-0.00022

NAND4BBX0P5H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

NAND4BB, In: AN, BN, C, D, Out: Y

Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	YN
0	x	0	x	1
0	x	1	0	1
0	0	1	1	0
x	1	1	1	1
1	x	x	x	1

Footprint

Cell Name	Area
NAND4BBX0P5H7H	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	B1	YN
NAND4BBX0P5H7H	0.00100	0.00088	0.00082	0.00089	0.01265

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND4BBX0P5H7H	0.00000	0.01704	0.03562

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4BBX0P5H7H	A0->YN (RR)	0.06087	0.15518	0.36696
	A1->YN (RR)	0.06417	0.16103	0.38059
	B0->YN (FR)	0.03370	0.14536	0.50789
	B1->YN (FR)	0.03145	0.14127	0.50458

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4BBX0P5H7H	A0->YN (FF)	0.11869	0.28362	0.68666
	A1->YN (FF)	0.12264	0.29096	0.70313
	B0->YN (RF)	0.07616	0.24945	0.74275
	B1->YN (RF)	0.07019	0.23900	0.73174

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4BBX0P5H7H	A0	0.00097	0.00101	0.00105
	A0	-0.00009	-0.00009	-0.00009
	A0	0.00010	0.00011	0.00011
	A0	0.00109	0.00112	0.00117
	A1	0.00106	0.00111	0.00116
	A1	-0.00009	-0.00009	-0.00009
	A1	0.00007	0.00007	0.00007
	A1	0.00122	0.00127	0.00131
	B0	0.00090	0.00092	0.00094
	B0	-0.00011	-0.00011	-0.00010
	B0	0.00004	0.00006	0.00007
	B0	-0.00005	-0.00002	-0.00000
	B1	0.00073	0.00076	0.00080
	B1	-0.00011	-0.00011	-0.00009
	B1	0.00000	0.00011	0.00449
	B1	-0.00091	-0.00004	0.00002

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4BBX0P5H7H	A0	0.00123	0.00127	0.00132
	A0	0.00009	0.00009	0.00010
	A0	-0.00011	-0.00011	-0.00010
	A0	0.00117	0.00121	0.00126
	A1	0.00122	0.00126	0.00130
	A1	0.00009	0.00009	0.00010
	A1	-0.00007	-0.00007	-0.00007
	A1	0.00112	0.00116	0.00120
	B0	0.00004	0.00006	0.00008
	B0	0.00010	0.00011	0.00012
	B0	-0.00007	-0.00006	-0.00004
	B0	0.00100	0.00103	0.00105
	B1	0.00008	0.00011	0.00014
	B1	0.00011	0.00011	0.00011
	B1	-0.00002	-0.00002	-0.00000
	B1	0.00085	0.00089	0.00092

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX0P5H7H	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00001	0.00004	0.00007
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00003	0.00003	0.00003
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	-0.00004	-0.00003	-0.00003
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00080	0.00082	0.00085
	(A1 * !B1 * YN)	0.00001	0.00004	0.00007
	(A1 * !B1 * YN)	0.00003	0.00003	0.00003
	(A1 * !B1 * YN)	-0.00004	-0.00003	-0.00003
	(A1 * !B1 * YN)	0.00080	0.00082	0.00086
	(A1 * !B0 * B1 * YN)	0.00001	0.00004	0.00007
	(A1 * !B0 * B1 * YN)	0.00003	0.00003	0.00003
	(A1 * !B0 * B1 * YN)	-0.00004	-0.00004	-0.00004
	(A1 * !B0 * B1 * YN)	0.00080	0.00082	0.00085
	(!A1 * !B0 * !B1 * YN)	0.00006	0.00009	0.00013
	(!A1 * !B0 * !B1 * YN)	0.00003	0.00003	0.00003
	(!A1 * !B0 * !B1 * YN)	-0.00004	-0.00004	-0.00004
	(!A1 * !B0 * !B1 * YN)	0.00085	0.00088	0.00092

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX0P5H7H	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00083	0.00085	0.00088
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00003	0.00003	0.00004
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00005	0.00007	0.00011
	(A1 * !B1 * YN)	0.00083	0.00085	0.00088
	(A1 * !B1 * YN)	-0.00003	-0.00003	-0.00003
	(A1 * !B1 * YN)	0.00003	0.00004	0.00004
	(A1 * !B1 * YN)	0.00005	0.00007	0.00011
	(A1 * !B0 * B1 * YN)	0.00083	0.00085	0.00089
	(A1 * !B0 * B1 * YN)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * B1 * YN)	0.00004	0.00004	0.00004
	(A1 * !B0 * B1 * YN)	0.00005	0.00007	0.00010
	(!A1 * !B0 * !B1 * YN)	0.00078	0.00081	0.00084
	(!A1 * !B0 * !B1 * YN)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * !B1 * YN)	0.00004	0.00004	0.00004
	(!A1 * !B0 * !B1 * YN)	-0.00000	0.00002	0.00005

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX0P5H7H	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00008	0.00010	0.00013
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00003	0.00003	0.00003
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	-0.00006	-0.00006	-0.00006
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00092	0.00094	0.00096
	(!B0 * !B1 * YN)	0.00008	0.00010	0.00013
	(!B0 * !B1 * YN)	0.00003	0.00003	0.00003
	(!B0 * !B1 * YN)	-0.00007	-0.00007	-0.00007
	(!B0 * !B1 * YN)	0.00093	0.00095	0.00098

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX0P5H7H	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00084	0.00086	0.00088
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00006	0.00006	0.00006
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00001	0.00003	0.00005
	(!B0 * !B1 * YN)	0.00085	0.00087	0.00089
	(!B0 * !B1 * YN)	-0.00003	-0.00003	-0.00003
	(!B0 * !B1 * YN)	0.00007	0.00007	0.00007
	(!B0 * !B1 * YN)	0.00001	0.00003	0.00005

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX0P5H7H	(A1 * B1 * YN)	-0.00014	-0.00014	-0.00014
	(A1 * B1 * YN)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * YN)	0.00004	0.00004	0.00004
	(A1 * B1 * YN)	0.00015	0.00015	0.00015
	(A1 * !B1 * YN)	-0.00014	-0.00014	-0.00014
	(A1 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(A1 * !B1 * YN)	0.00005	0.00005	0.00005
	(A1 * !B1 * YN)	0.00015	0.00015	0.00015
	(A0 * !A1 * B1 * YN)	-0.00024	-0.00024	-0.00024
	(A0 * !A1 * B1 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B1 * YN)	0.00004	0.00004	0.00005
	(A0 * !A1 * B1 * YN)	0.00006	0.00006	0.00007
	(A0 * !A1 * !B1 * YN)	-0.00025	-0.00025	-0.00025
	(A0 * !A1 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B1 * YN)	0.00004	0.00005	0.00005
	(A0 * !A1 * !B1 * YN)	0.00007	0.00007	0.00007
	(!A0 * !A1 * !B1 * YN)	-0.00022	-0.00022	-0.00021
	(!A0 * !A1 * !B1 * YN)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !B1 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B1 * YN)	0.00018	0.00018	0.00019

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX0P5H7H	(A1 * B1 * YN)	0.00014	0.00014	0.00014
	(A1 * B1 * YN)	0.00001	0.00001	0.00001
	(A1 * B1 * YN)	-0.00004	-0.00004	-0.00004
	(A1 * B1 * YN)	-0.00015	-0.00015	-0.00014
	(A1 * !B1 * YN)	0.00014	0.00015	0.00015
	(A1 * !B1 * YN)	0.00001	0.00001	0.00001
	(A1 * !B1 * YN)	-0.00005	-0.00005	-0.00005
	(A1 * !B1 * YN)	-0.00015	-0.00015	-0.00015
	(A0 * !A1 * B1 * YN)	0.00024	0.00024	0.00024
	(A0 * !A1 * B1 * YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * B1 * YN)	-0.00004	-0.00004	-0.00003
	(A0 * !A1 * B1 * YN)	-0.00006	-0.00006	-0.00006
	(A0 * !A1 * !B1 * YN)	0.00025	0.00025	0.00026
	(A0 * !A1 * !B1 * YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B1 * YN)	-0.00005	-0.00005	-0.00004
	(A0 * !A1 * !B1 * YN)	-0.00007	-0.00006	-0.00006
	(!A0 * !A1 * !B1 * YN)	0.00022	0.00022	0.00024
	(!A0 * !A1 * !B1 * YN)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B1 * YN)	-0.00018	-0.00017	-0.00016

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX0P5H7H	(A1 * B0 * YN)	-0.00024	-0.00024	-0.00024
	(A1 * B0 * YN)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * YN)	0.00002	0.00003	0.00003
	(A1 * B0 * YN)	0.00007	0.00008	0.00008
	(A0 * !A1 * B0 * YN)	-0.00026	-0.00026	-0.00025
	(A0 * !A1 * B0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B0 * YN)	0.00002	0.00002	0.00002
	(A0 * !A1 * B0 * YN)	0.00006	0.00006	0.00007
	(!B0 * YN)	-0.00024	-0.00024	-0.00024
	(!B0 * YN)	-0.00001	-0.00001	-0.00001
	(!B0 * YN)	0.00002	0.00003	0.00003
	(!B0 * YN)	0.00007	0.00007	0.00008

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX0P5H7H	(A1 * B0 * YN)	0.00024	0.00024	0.00024
	(A1 * B0 * YN)	0.00001	0.00001	0.00001
	(A1 * B0 * YN)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * YN)	-0.00008	-0.00008	-0.00007
	(A0 * !A1 * B0 * YN)	0.00025	0.00026	0.00026
	(A0 * !A1 * B0 * YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * B0 * YN)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B0 * YN)	-0.00006	-0.00006	-0.00006
	(!B0 * YN)	0.00024	0.00024	0.00024
	(!B0 * YN)	0.00001	0.00001	0.00001
	(!B0 * YN)	-0.00002	-0.00002	-0.00002
	(!B0 * YN)	-0.00007	-0.00007	-0.00007

NAND4BBX0P7H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

NAND4BB, In: AN, BN, C, D, Out: Y

Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	YN
0	x	0	x	1
0	x	1	0	1
0	0	1	1	0
x	1	1	1	1
1	x	x	x	1

Footprint

Cell Name	Area
NAND4BBX0P7H7H	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	B1	YN
NAND4BBX0P7H7H	0.00101	0.00089	0.00088	0.00095	0.01405

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND4BBX0P7H7H	0.00000	0.01756	0.03366

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4BBX0P7H7H	A0->YN (RR)	0.05898	0.15292	0.36359
	A1->YN (RR)	0.06218	0.15858	0.37671
	B0->YN (FR)	0.03159	0.14191	0.50255
	B1->YN (FR)	0.02956	0.13802	0.49874

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4BBX0P7H7H	A0->YN (FF)	0.11662	0.28303	0.68985
	A1->YN (FF)	0.11984	0.28941	0.70487
	B0->YN (RF)	0.07307	0.24726	0.74489
	B1->YN (RF)	0.06724	0.23587	0.72873

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4BBX0P7H7H	A0	0.00105	0.00109	0.00114
	A0	-0.00011	-0.00011	-0.00010
	A0	0.00012	0.00012	0.00012
	A0	0.00111	0.00115	0.00119
	A1	0.00114	0.00120	0.00124
	A1	-0.00011	-0.00011	-0.00010
	A1	0.00008	0.00009	0.00010
	A1	0.00123	0.00128	0.00133
	B0	0.00096	0.00099	0.00101
	B0	-0.00013	-0.00013	-0.00013
	B0	0.00001	0.00007	0.00008
	B0	-0.00006	-0.00003	0.00004
	B1	0.00078	0.00082	0.00086
	B1	-0.00013	-0.00013	-0.00012
	B1	0.00002	0.00003	0.00004
	B1	-0.00007	-0.00003	0.00000

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4BBX0P7H7H	A0	0.00127	0.00131	0.00136
	A0	0.00010	0.00011	0.00011
	A0	-0.00012	-0.00012	-0.00012
	A0	0.00129	0.00133	0.00137
	A1	0.00125	0.00129	0.00134
	A1	0.00011	0.00011	0.00011
	A1	-0.00010	-0.00009	-0.00008
	A1	0.00122	0.00126	0.00131
	B0	0.00005	0.00007	0.00009
	B0	0.00013	0.00013	0.00013
	B0	-0.00008	-0.00007	-0.00001
	B0	0.00109	0.00112	0.00114
	B1	0.00008	0.00011	0.00015
	B1	0.00012	0.00013	0.00013
	B1	-0.00003	-0.00002	-0.00002
	B1	0.00094	0.00097	0.00101

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX0P7H7H	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00003	0.00005	0.00009
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00003	0.00003	0.00003
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	-0.00004	-0.00004	-0.00003
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00082	0.00084	0.00088
	(A1 * !B1 * YN)	0.00003	0.00005	0.00009
	(A1 * !B1 * YN)	0.00003	0.00003	0.00003
	(A1 * !B1 * YN)	-0.00004	-0.00004	-0.00004
	(A1 * !B1 * YN)	0.00082	0.00084	0.00088
	(A1 * !B0 * B1 * YN)	0.00003	0.00005	0.00009
	(A1 * !B0 * B1 * YN)	0.00003	0.00003	0.00003
	(A1 * !B0 * B1 * YN)	-0.00004	-0.00004	-0.00004
	(A1 * !B0 * B1 * YN)	0.00082	0.00084	0.00088
	(!A1 * !B0 * !B1 * YN)	0.00007	0.00010	0.00014
	(!A1 * !B0 * !B1 * YN)	0.00003	0.00003	0.00003
	(!A1 * !B0 * !B1 * YN)	-0.00004	-0.00004	-0.00003
	(!A1 * !B0 * !B1 * YN)	0.00087	0.00090	0.00094

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX0P7H7H	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00084	0.00086	0.00090
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00003	0.00004	0.00004
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00005	0.00007	0.00010
	(A1 * !B1 * YN)	0.00084	0.00086	0.00089
	(A1 * !B1 * YN)	-0.00003	-0.00003	-0.00003
	(A1 * !B1 * YN)	0.00004	0.00004	0.00004
	(A1 * !B1 * YN)	0.00005	0.00007	0.00010
	(A1 * !B0 * B1 * YN)	0.00084	0.00086	0.00089
	(A1 * !B0 * B1 * YN)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * B1 * YN)	0.00004	0.00004	0.00004
	(A1 * !B0 * B1 * YN)	0.00005	0.00007	0.00010
	(!A1 * !B0 * !B1 * YN)	0.00080	0.00082	0.00086
	(!A1 * !B0 * !B1 * YN)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * !B1 * YN)	0.00003	0.00004	0.00004
	(!A1 * !B0 * !B1 * YN)	0.00000	0.00003	0.00006

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX0P7H7H	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00010	0.00012	0.00015
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00003	0.00003	0.00003
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	-0.00007	-0.00007	-0.00006
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00094	0.00096	0.00099
	(!B0 * !B1 * YN)	0.00010	0.00012	0.00014
	(!B0 * !B1 * YN)	0.00003	0.00003	0.00003
	(!B0 * !B1 * YN)	-0.00008	-0.00007	-0.00007
	(!B0 * !B1 * YN)	0.00096	0.00098	0.00100

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX0P7H7H	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00084	0.00086	0.00088
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00007	0.00007	0.00007
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	-0.00000	0.00002	0.00005
	(!B0 * !B1 * YN)	0.00085	0.00087	0.00089
	(!B0 * !B1 * YN)	-0.00003	-0.00003	-0.00003
	(!B0 * !B1 * YN)	0.00007	0.00007	0.00008
	(!B0 * !B1 * YN)	-0.00000	0.00002	0.00005

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX0P7H7H	(A1 * B1 * YN)	-0.00016	-0.00016	-0.00016
	(A1 * B1 * YN)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * YN)	0.00005	0.00005	0.00005
	(A1 * B1 * YN)	0.00014	0.00015	0.00015
	(A1 * !B1 * YN)	-0.00016	-0.00016	-0.00016
	(A1 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(A1 * !B1 * YN)	0.00005	0.00005	0.00005
	(A1 * !B1 * YN)	0.00015	0.00015	0.00015
	(A0 * !A1 * B1 * YN)	-0.00026	-0.00025	-0.00025
	(A0 * !A1 * B1 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B1 * YN)	0.00003	0.00005	0.00005
	(A0 * !A1 * B1 * YN)	0.00006	0.00006	0.00007
	(A0 * !A1 * !B1 * YN)	-0.00027	-0.00026	-0.00026
	(A0 * !A1 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B1 * YN)	0.00005	0.00005	0.00005
	(A0 * !A1 * !B1 * YN)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !B1 * YN)	-0.00023	-0.00023	-0.00023
	(!A0 * !A1 * !B1 * YN)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !B1 * YN)	0.00001	0.00001	0.00002
	(!A0 * !A1 * !B1 * YN)	0.00019	0.00019	0.00019

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX0P7H7H	(A1 * B1 * YN)	0.00016	0.00016	0.00016
	(A1 * B1 * YN)	0.00001	0.00001	0.00001
	(A1 * B1 * YN)	-0.00005	-0.00005	-0.00005
	(A1 * B1 * YN)	-0.00015	-0.00015	-0.00014
	(A1 * !B1 * YN)	0.00016	0.00016	0.00016
	(A1 * !B1 * YN)	0.00001	0.00001	0.00001
	(A1 * !B1 * YN)	-0.00005	-0.00005	-0.00005
	(A1 * !B1 * YN)	-0.00015	-0.00015	-0.00014
	(A0 * !A1 * B1 * YN)	0.00025	0.00025	0.00026
	(A0 * !A1 * B1 * YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * B1 * YN)	-0.00005	-0.00004	-0.00003
	(A0 * !A1 * B1 * YN)	-0.00006	-0.00006	-0.00005
	(A0 * !A1 * !B1 * YN)	0.00027	0.00027	0.00027
	(A0 * !A1 * !B1 * YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B1 * YN)	-0.00005	-0.00005	-0.00005
	(A0 * !A1 * !B1 * YN)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !B1 * YN)	0.00023	0.00024	0.00025
	(!A0 * !A1 * !B1 * YN)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !B1 * YN)	-0.00002	-0.00001	-0.00001
	(!A0 * !A1 * !B1 * YN)	-0.00019	-0.00018	-0.00016

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX0P7H7H	(A1 * B0 * YN)	-0.00027	-0.00026	-0.00026
	(A1 * B0 * YN)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * YN)	0.00002	0.00003	0.00003
	(A1 * B0 * YN)	0.00007	0.00007	0.00008
	(A0 * !A1 * B0 * YN)	-0.00028	-0.00028	-0.00028
	(A0 * !A1 * B0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B0 * YN)	0.00003	0.00003	0.00003
	(A0 * !A1 * B0 * YN)	0.00006	0.00006	0.00006
	(!B0 * YN)	-0.00027	-0.00026	-0.00026
	(!B0 * YN)	-0.00001	-0.00001	-0.00001
	(!B0 * YN)	0.00003	0.00003	0.00003
	(!B0 * YN)	0.00007	0.00007	0.00007

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX0P7H7H	(A1 * B0 * YN)	0.00026	0.00026	0.00027
	(A1 * B0 * YN)	0.00001	0.00001	0.00001
	(A1 * B0 * YN)	-0.00003	-0.00003	-0.00002
	(A1 * B0 * YN)	-0.00007	-0.00007	-0.00007
	(A0 * !A1 * B0 * YN)	0.00028	0.00028	0.00028
	(A0 * !A1 * B0 * YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * B0 * YN)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * B0 * YN)	-0.00006	-0.00006	-0.00006
	(!B0 * YN)	0.00026	0.00026	0.00027
	(!B0 * YN)	0.00001	0.00001	0.00001
	(!B0 * YN)	-0.00003	-0.00003	-0.00003
	(!B0 * YN)	-0.00007	-0.00007	-0.00007

NAND4BBX1H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

NAND4BB, In: AN, BN, C, D, Out: Y

Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	YN
0	x	0	x	1
0	x	1	0	1
0	0	1	1	0
x	1	1	1	1
1	x	x	x	1

Footprint

Cell Name	Area
NAND4BBX1H7H	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	B1	YN
NAND4BBX1H7H	0.00101	0.00087	0.00096	0.00102	0.01600

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND4BBX1H7H	0.00000	0.01879	0.03139

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4BBX1H7H	A0->YN (RR)	0.05696	0.14996	0.35800
	A1->YN (RR)	0.06000	0.15524	0.37024
	B0->YN (FR)	0.02922	0.13712	0.49281
	B1->YN (FR)	0.02705	0.13303	0.48862

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4BBX1H7H	A0->YN (FF)	0.11530	0.28320	0.69386
	A1->YN (FF)	0.11760	0.28848	0.70723
	B0->YN (RF)	0.07033	0.24524	0.74583
	B1->YN (RF)	0.06354	0.23197	0.72383

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4BBX1H7H	A0	0.00118	0.00122	0.00127
	A0	-0.00014	-0.00014	-0.00013
	A0	0.00014	0.00015	0.00015
	A0	0.00115	0.00119	0.00124
	A1	0.00129	0.00134	0.00139
	A1	-0.00014	-0.00014	-0.00013
	A1	0.00010	0.00010	0.00011
	A1	0.00129	0.00134	0.00138
	B0	0.00106	0.00110	0.00113
	B0	-0.00016	-0.00015	-0.00015
	B0	0.00005	0.00008	0.00010
	B0	-0.00006	-0.00003	0.00001
	B1	0.00086	0.00091	0.00095
	B1	-0.00016	-0.00015	-0.00015
	B1	0.00002	0.00003	0.00004
	B1	-0.00008	-0.00003	0.00000

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4BBX1H7H	A0	0.00134	0.00138	0.00143
	A0	0.00013	0.00014	0.00014
	A0	-0.00015	-0.00015	-0.00014
	A0	0.00146	0.00150	0.00155
	A1	0.00129	0.00134	0.00139
	A1	0.00013	0.00014	0.00014
	A1	-0.00011	-0.00010	-0.00010
	A1	0.00136	0.00140	0.00145
	B0	0.00005	0.00008	0.00010
	B0	0.00015	0.00016	0.00016
	B0	-0.00009	-0.00008	-0.00005
	B0	0.00122	0.00125	0.00127
	B1	0.00008	0.00012	0.00016
	B1	0.00015	0.00016	0.00016
	B1	-0.00003	-0.00003	-0.00002
	B1	0.00102	0.00107	0.00111

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX1H7H	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00005	0.00008	0.00011
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00003	0.00003	0.00003
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	-0.00004	-0.00004	-0.00003
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00085	0.00087	0.00091
	(A1 * !B1 * YN)	0.00005	0.00007	0.00011
	(A1 * !B1 * YN)	0.00003	0.00003	0.00003
	(A1 * !B1 * YN)	-0.00005	-0.00004	-0.00004
	(A1 * !B1 * YN)	0.00085	0.00087	0.00091
	(A1 * !B0 * B1 * YN)	0.00005	0.00008	0.00011
	(A1 * !B0 * B1 * YN)	0.00002	0.00003	0.00003
	(A1 * !B0 * B1 * YN)	-0.00005	-0.00004	-0.00004
	(A1 * !B0 * B1 * YN)	0.00085	0.00087	0.00091
	(!A1 * !B0 * !B1 * YN)	-0.00033	0.00005	0.00014
	(!A1 * !B0 * !B1 * YN)	0.00003	0.00011	0.00055
	(!A1 * !B0 * !B1 * YN)	-0.00004	-0.00004	-0.00004
	(!A1 * !B0 * !B1 * YN)	0.00089	0.00093	0.00100

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX1H7H	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00085	0.00088	0.00091
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00003	0.00004	0.00004
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00006	0.00008	0.00011
	(A1 * !B1 * YN)	0.00085	0.00088	0.00091
	(A1 * !B1 * YN)	-0.00003	-0.00003	-0.00003
	(A1 * !B1 * YN)	0.00004	0.00004	0.00005
	(A1 * !B1 * YN)	0.00006	0.00008	0.00011
	(A1 * !B0 * B1 * YN)	0.00085	0.00088	0.00091
	(A1 * !B0 * B1 * YN)	-0.00003	-0.00003	-0.00002
	(A1 * !B0 * B1 * YN)	0.00004	0.00004	0.00005
	(A1 * !B0 * B1 * YN)	0.00006	0.00008	0.00011
	(!A1 * !B0 * !B1 * YN)	0.00082	0.00084	0.00087
	(!A1 * !B0 * !B1 * YN)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * !B1 * YN)	0.00004	0.00004	0.00005
	(!A1 * !B0 * !B1 * YN)	0.00001	0.00004	0.00007

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX1H7H	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00013	0.00015	0.00018
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00003	0.00003	0.00003
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	-0.00007	-0.00007	-0.00007
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00098	0.00100	0.00102
	(!B0 * !B1 * YN)	0.00013	0.00015	0.00018
	(!B0 * !B1 * YN)	0.00003	0.00003	0.00003
	(!B0 * !B1 * YN)	-0.00008	-0.00008	-0.00008
	(!B0 * !B1 * YN)	0.00100	0.00101	0.00104

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX1H7H	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00083	0.00085	0.00087
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00007	0.00007	0.00008
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	-0.00001	0.00001	0.00003
	(!B0 * !B1 * YN)	0.00084	0.00086	0.00088
	(!B0 * !B1 * YN)	-0.00003	-0.00003	-0.00003
	(!B0 * !B1 * YN)	0.00008	0.00008	0.00008
	(!B0 * !B1 * YN)	-0.00001	0.00001	0.00003

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX1H7H	(A1 * B1 * YN)	-0.00018	-0.00018	-0.00018
	(A1 * B1 * YN)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * YN)	0.00005	0.00006	0.00006
	(A1 * B1 * YN)	0.00014	0.00014	0.00014
	(A1 * !B1 * YN)	-0.00018	-0.00018	-0.00018
	(A1 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(A1 * !B1 * YN)	0.00006	0.00006	0.00006
	(A1 * !B1 * YN)	0.00014	0.00015	0.00015
	(A0 * !A1 * B1 * YN)	-0.00027	-0.00027	-0.00027
	(A0 * !A1 * B1 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B1 * YN)	0.00005	0.00006	0.00007
	(A0 * !A1 * B1 * YN)	0.00005	0.00006	0.00006
	(A0 * !A1 * !B1 * YN)	-0.00029	-0.00028	-0.00028
	(A0 * !A1 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B1 * YN)	0.00006	0.00006	0.00006
	(A0 * !A1 * !B1 * YN)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !B1 * YN)	-0.00025	-0.00025	-0.00024
	(!A0 * !A1 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B1 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !B1 * YN)	0.00020	0.00020	0.00021

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX1H7H	(A1 * B1 * YN)	0.00018	0.00018	0.00018
	(A1 * B1 * YN)	0.00001	0.00001	0.00001
	(A1 * B1 * YN)	-0.00005	-0.00005	-0.00005
	(A1 * B1 * YN)	-0.00014	-0.00014	-0.00014
	(A1 * !B1 * YN)	0.00018	0.00018	0.00018
	(A1 * !B1 * YN)	0.00001	0.00001	0.00001
	(A1 * !B1 * YN)	-0.00006	-0.00006	-0.00006
	(A1 * !B1 * YN)	-0.00015	-0.00015	-0.00014
	(A0 * !A1 * B1 * YN)	0.00027	0.00027	0.00027
	(A0 * !A1 * B1 * YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * B1 * YN)	-0.00006	-0.00005	-0.00005
	(A0 * !A1 * B1 * YN)	-0.00006	-0.00006	-0.00005
	(A0 * !A1 * !B1 * YN)	0.00029	0.00029	0.00029
	(A0 * !A1 * !B1 * YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B1 * YN)	-0.00006	-0.00006	-0.00006
	(A0 * !A1 * !B1 * YN)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !B1 * YN)	0.00025	0.00025	0.00027
	(!A0 * !A1 * !B1 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B1 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !B1 * YN)	-0.00020	-0.00019	-0.00017

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX1H7H	(A1 * B0 * YN)	-0.00030	-0.00029	-0.00029
	(A1 * B0 * YN)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * YN)	0.00003	0.00003	0.00004
	(A1 * B0 * YN)	0.00007	0.00008	0.00008
	(A0 * !A1 * B0 * YN)	-0.00031	-0.00031	-0.00031
	(A0 * !A1 * B0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B0 * YN)	0.00003	0.00003	0.00003
	(A0 * !A1 * B0 * YN)	0.00006	0.00006	0.00006
	(!B0 * YN)	-0.00029	-0.00029	-0.00029
	(!B0 * YN)	-0.00001	-0.00001	-0.00001
	(!B0 * YN)	0.00003	0.00003	0.00003
	(!B0 * YN)	0.00007	0.00007	0.00008

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX1H7H	(A1 * B0 * YN)	0.00029	0.00029	0.00030
	(A1 * B0 * YN)	0.00001	0.00001	0.00001
	(A1 * B0 * YN)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * YN)	-0.00008	-0.00007	-0.00007
	(A0 * !A1 * B0 * YN)	0.00031	0.00031	0.00031
	(A0 * !A1 * B0 * YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * B0 * YN)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * B0 * YN)	-0.00006	-0.00006	-0.00006
	(!B0 * YN)	0.00029	0.00029	0.00029
	(!B0 * YN)	0.00001	0.00001	0.00001
	(!B0 * YN)	-0.00003	-0.00003	-0.00003
	(!B0 * YN)	-0.00007	-0.00007	-0.00007

NAND4BBX1P4H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

NAND4BB, In: AN, BN, C, D, Out: Y

Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	YN
0	x	0	x	1
0	x	1	0	1
0	0	1	1	0
x	1	1	1	1
1	x	x	x	1

Footprint

Cell Name	Area
NAND4BBX1P4H7H	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	B1	YN
NAND4BBX1P4H7H	0.00100	0.00088	0.00103	0.00111	0.01817

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND4BBX1P4H7H	0.00000	0.02041	0.03099

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4BBX1P4H7H	A0->YN (RR)	0.05450	0.14818	0.35808
	A1->YN (RR)	0.05832	0.15435	0.37143
	B0->YN (FR)	0.02722	0.13477	0.49261
	B1->YN (FR)	0.02479	0.13044	0.48882

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4BBX1P4H7H	A0->YN (FF)	0.10993	0.27985	0.69596
	A1->YN (FF)	0.11315	0.28627	0.71110
	B0->YN (RF)	0.06601	0.24197	0.74813
	B1->YN (RF)	0.05797	0.22730	0.72255

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4BBX1P4H7H	A0	0.00125	0.00129	0.00133
	A0	-0.00016	-0.00016	-0.00016
	A0	0.00017	0.00017	0.00017
	A0	0.00109	0.00113	0.00117
	A1	0.00137	0.00143	0.00148
	A1	-0.00016	-0.00016	-0.00016
	A1	0.00011	0.00012	0.00013
	A1	0.00125	0.00131	0.00135
	B0	0.00111	0.00116	0.00120
	B0	-0.00018	-0.00018	-0.00018
	B0	0.00006	0.00009	0.00011
	B0	-0.00016	-0.00012	-0.00008
	B1	0.00092	0.00097	0.00101
	B1	-0.00018	-0.00018	-0.00018
	B1	0.00003	0.00003	0.00004
	B1	-0.00018	-0.00013	-0.00009

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4BBX1P4H7H	A0	0.00136	0.00140	0.00145
	A0	0.00016	0.00016	0.00017
	A0	-0.00017	-0.00017	-0.00017
	A0	0.00161	0.00166	0.00170
	A1	0.00131	0.00136	0.00141
	A1	0.00016	0.00016	0.00017
	A1	-0.00013	-0.00012	-0.00011
	A1	0.00151	0.00155	0.00161
	B0	0.00003	0.00007	0.00010
	B0	0.00018	0.00018	0.00018
	B0	-0.00010	-0.00009	-0.00006
	B0	0.00136	0.00139	0.00142
	B1	0.00006	0.00010	0.00014
	B1	0.00018	0.00018	0.00019
	B1	-0.00003	-0.00003	-0.00003
	B1	0.00114	0.00120	0.00124

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX1P4H7H	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00005	0.00007	0.00011
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00003	0.00003	0.00003
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	-0.00005	-0.00004	-0.00004
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00085	0.00087	0.00091
	(A1 * !B1 * YN)	0.00005	0.00007	0.00011
	(A1 * !B1 * YN)	0.00003	0.00003	0.00003
	(A1 * !B1 * YN)	-0.00005	-0.00004	-0.00004
	(A1 * !B1 * YN)	0.00085	0.00087	0.00091
	(A1 * !B0 * B1 * YN)	0.00005	0.00007	0.00011
	(A1 * !B0 * B1 * YN)	0.00003	0.00003	0.00003
	(A1 * !B0 * B1 * YN)	-0.00005	-0.00004	-0.00004
	(A1 * !B0 * B1 * YN)	0.00085	0.00087	0.00091
	(!A1 * !B0 * !B1 * YN)	0.00011	0.00013	0.00017
	(!A1 * !B0 * !B1 * YN)	0.00003	0.00003	0.00003
	(!A1 * !B0 * !B1 * YN)	-0.00005	-0.00004	-0.00004
	(!A1 * !B0 * !B1 * YN)	0.00091	0.00093	0.00097

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX1P4H7H	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00088	0.00090	0.00094
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00004	0.00004	0.00005
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00009	0.00011	0.00014
	(A1 * !B1 * YN)	0.00088	0.00090	0.00093
	(A1 * !B1 * YN)	-0.00003	-0.00003	-0.00003
	(A1 * !B1 * YN)	0.00004	0.00004	0.00005
	(A1 * !B1 * YN)	0.00009	0.00011	0.00013
	(A1 * !B0 * B1 * YN)	0.00088	0.00090	0.00093
	(A1 * !B0 * B1 * YN)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * B1 * YN)	0.00004	0.00004	0.00005
	(A1 * !B0 * B1 * YN)	0.00009	0.00011	0.00013
	(!A1 * !B0 * !B1 * YN)	0.00083	0.00085	0.00088
	(!A1 * !B0 * !B1 * YN)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * !B1 * YN)	0.00004	0.00005	0.00005
	(!A1 * !B0 * !B1 * YN)	0.00003	0.00005	0.00008

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX1P4H7H	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00016	0.00018	0.00021
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00003	0.00003	0.00003
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	-0.00008	-0.00008	-0.00008
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00100	0.00102	0.00104
	(!B0 * !B1 * YN)	0.00016	0.00018	0.00021
	(!B0 * !B1 * YN)	0.00003	0.00003	0.00003
	(!B0 * !B1 * YN)	-0.00009	-0.00009	-0.00009
	(!B0 * !B1 * YN)	0.00102	0.00104	0.00107

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX1P4H7H	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00084	0.00086	0.00088
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00008	0.00008	0.00008
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	-0.00001	0.00001	0.00004
	(!B0 * !B1 * YN)	0.00085	0.00087	0.00089
	(!B0 * !B1 * YN)	-0.00003	-0.00003	-0.00003
	(!B0 * !B1 * YN)	0.00009	0.00009	0.00009
	(!B0 * !B1 * YN)	-0.00001	0.00001	0.00004

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX1P4H7H	(A1 * B1 * YN)	-0.00023	-0.00023	-0.00023
	(A1 * B1 * YN)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * YN)	0.00006	0.00006	0.00007
	(A1 * B1 * YN)	0.00014	0.00014	0.00014
	(A1 * !B1 * YN)	-0.00023	-0.00023	-0.00023
	(A1 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(A1 * !B1 * YN)	0.00006	0.00007	0.00007
	(A1 * !B1 * YN)	0.00014	0.00014	0.00015
	(A0 * !A1 * B1 * YN)	-0.00032	-0.00032	-0.00031
	(A0 * !A1 * B1 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B1 * YN)	0.00005	0.00006	0.00007
	(A0 * !A1 * B1 * YN)	0.00006	0.00006	0.00007
	(A0 * !A1 * !B1 * YN)	-0.00033	-0.00033	-0.00033
	(A0 * !A1 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B1 * YN)	0.00007	0.00007	0.00007
	(A0 * !A1 * !B1 * YN)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !B1 * YN)	-0.00029	-0.00029	-0.00029
	(!A0 * !A1 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B1 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !B1 * YN)	0.00021	0.00021	0.00021

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX1P4H7H	(A1 * B1 * YN)	0.00023	0.00023	0.00023
	(A1 * B1 * YN)	0.00001	0.00001	0.00001
	(A1 * B1 * YN)	-0.00006	-0.00006	-0.00006
	(A1 * B1 * YN)	-0.00014	-0.00014	-0.00014
	(A1 * !B1 * YN)	0.00023	0.00023	0.00023
	(A1 * !B1 * YN)	0.00001	0.00001	0.00001
	(A1 * !B1 * YN)	-0.00007	-0.00007	-0.00006
	(A1 * !B1 * YN)	-0.00014	-0.00014	-0.00013
	(A0 * !A1 * B1 * YN)	0.00032	0.00032	0.00032
	(A0 * !A1 * B1 * YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * B1 * YN)	-0.00006	-0.00006	-0.00005
	(A0 * !A1 * B1 * YN)	-0.00006	-0.00006	-0.00005
	(A0 * !A1 * !B1 * YN)	0.00033	0.00034	0.00034
	(A0 * !A1 * !B1 * YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B1 * YN)	-0.00007	-0.00007	-0.00007
	(A0 * !A1 * !B1 * YN)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !B1 * YN)	0.00029	0.00030	0.00031
	(!A0 * !A1 * !B1 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B1 * YN)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * !B1 * YN)	-0.00021	-0.00020	-0.00018

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX1P4H7H	(A1 * B0 * YN)	-0.00032	-0.00032	-0.00032
	(A1 * B0 * YN)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * YN)	0.00003	0.00004	0.00004
	(A1 * B0 * YN)	0.00011	0.00011	0.00011
	(A0 * !A1 * B0 * YN)	-0.00035	-0.00035	-0.00034
	(A0 * !A1 * B0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B0 * YN)	0.00004	0.00004	0.00005
	(A0 * !A1 * B0 * YN)	0.00006	0.00008	0.00008
	(!B0 * YN)	-0.00032	-0.00032	-0.00032
	(!B0 * YN)	-0.00001	-0.00001	-0.00001
	(!B0 * YN)	0.00003	0.00004	0.00004
	(!B0 * YN)	0.00010	0.00010	0.00010

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX1P4H7H	(A1 * B0 * YN)	0.00032	0.00032	0.00032
	(A1 * B0 * YN)	0.00001	0.00001	0.00001
	(A1 * B0 * YN)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * YN)	-0.00010	-0.00010	-0.00010
	(A0 * !A1 * B0 * YN)	0.00034	0.00035	0.00035
	(A0 * !A1 * B0 * YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * B0 * YN)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * B0 * YN)	-0.00008	-0.00007	-0.00006
	(!B0 * YN)	0.00032	0.00032	0.00032
	(!B0 * YN)	0.00001	0.00001	0.00001
	(!B0 * YN)	-0.00004	-0.00003	-0.00003
	(!B0 * YN)	-0.00010	-0.00010	-0.00009

NAND4BBX2H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

NAND4BB, In: AN, BN, C, D, Out: Y

Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	YN
0	x	0	x	1
0	x	1	0	1
0	0	1	1	0
x	1	1	1	1
1	x	x	x	1

Footprint

Cell Name	Area
NAND4BBX2H7H	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	B1	YN
NAND4BBX2H7H	0.00101	0.00088	0.00112	0.00122	0.02151

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND4BBX2H7H	0.00000	0.02343	0.03891

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4BBX2H7H	A0->YN (RR)	0.05485	0.15099	0.36747
	A1->YN (RR)	0.05817	0.15646	0.37958
	B0->YN (FR)	0.02555	0.13455	0.49882
	B1->YN (FR)	0.02319	0.13016	0.49526

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4BBX2H7H	A0->YN (FF)	0.10838	0.28084	0.70334
	A1->YN (FF)	0.11014	0.28554	0.71611
	B0->YN (RF)	0.06083	0.23772	0.74784
	B1->YN (RF)	0.05301	0.22282	0.72192

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4BBX2H7H	A0	0.00144	0.00148	0.00154
	A0	-0.00020	-0.00020	-0.00019
	A0	0.00021	0.00021	0.00021
	A0	0.00117	0.00122	0.00127
	A1	0.00154	0.00160	0.00165
	A1	-0.00020	-0.00020	-0.00020
	A1	0.00015	0.00015	0.00015
	A1	0.00131	0.00138	0.00143
	B0	0.00124	0.00128	0.00132
	B0	-0.00022	-0.00022	-0.00020
	B0	0.00009	0.00011	0.00015
	B0	-0.00016	-0.00011	-0.00008
	B1	0.00102	0.00107	0.00112
	B1	-0.00022	-0.00022	-0.00021
	B1	0.00000	0.00004	0.00005
	B1	-0.00018	-0.00012	-0.00007

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4BBX2H7H	A0	0.00144	0.00149	0.00154
	A0	0.00020	0.00020	0.00020
	A0	-0.00021	-0.00021	-0.00021
	A0	0.00182	0.00186	0.00192
	A1	0.00137	0.00142	0.00148
	A1	0.00020	0.00020	0.00020
	A1	-0.00015	-0.00015	-0.00015
	A1	0.00168	0.00173	0.00179
	B0	0.00004	0.00008	0.00011
	B0	0.00022	0.00022	0.00022
	B0	-0.00013	-0.00011	-0.00009
	B0	0.00149	0.00153	0.00156
	B1	0.00005	0.00009	0.00013
	B1	0.00022	0.00022	0.00022
	B1	-0.00004	-0.00004	-0.00000
	B1	0.00124	0.00129	0.00134

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX2H7H	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00009	0.00012	0.00015
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00003	0.00003	0.00003
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	-0.00005	-0.00004	-0.00004
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00090	0.00093	0.00097
	(A1 * !B1 * YN)	0.00009	0.00012	0.00015
	(A1 * !B1 * YN)	0.00003	0.00003	0.00003
	(A1 * !B1 * YN)	-0.00005	-0.00005	-0.00004
	(A1 * !B1 * YN)	0.00090	0.00093	0.00097
	(A1 * !B0 * B1 * YN)	0.00009	0.00012	0.00015
	(A1 * !B0 * B1 * YN)	0.00003	0.00003	0.00003
	(A1 * !B0 * B1 * YN)	-0.00005	-0.00005	-0.00005
	(A1 * !B0 * B1 * YN)	0.00090	0.00093	0.00097
	(!A1 * !B0 * !B1 * YN)	0.00015	0.00018	0.00022
	(!A1 * !B0 * !B1 * YN)	0.00003	0.00003	0.00003
	(!A1 * !B0 * !B1 * YN)	-0.00005	-0.00005	-0.00004
	(!A1 * !B0 * !B1 * YN)	0.00097	0.00100	0.00104

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX2H7H	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00090	0.00093	0.00096
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00004	0.00004	0.00005
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00010	0.00012	0.00016
	(A1 * !B1 * YN)	0.00090	0.00093	0.00096
	(A1 * !B1 * YN)	-0.00003	-0.00003	-0.00003
	(A1 * !B1 * YN)	0.00004	0.00005	0.00005
	(A1 * !B1 * YN)	0.00010	0.00012	0.00015
	(A1 * !B0 * B1 * YN)	0.00090	0.00093	0.00096
	(A1 * !B0 * B1 * YN)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * B1 * YN)	0.00005	0.00005	0.00005
	(A1 * !B0 * B1 * YN)	0.00010	0.00012	0.00015
	(!A1 * !B0 * !B1 * YN)	0.00084	0.00087	0.00091
	(!A1 * !B0 * !B1 * YN)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * !B1 * YN)	0.00004	0.00005	0.00005
	(!A1 * !B0 * !B1 * YN)	0.00003	0.00005	0.00009

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX2H7H	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00018	0.00020	0.00023
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00003	0.00003	0.00003
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	-0.00009	-0.00009	-0.00009
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00105	0.00107	0.00109
	(!B0 * !B1 * YN)	0.00018	0.00021	0.00028
	(!B0 * !B1 * YN)	0.00000	0.00003	0.00003
	(!B0 * !B1 * YN)	-0.00010	-0.00010	-0.00010
	(!B0 * !B1 * YN)	0.00107	0.00109	0.00112

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX2H7H	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00087	0.00089	0.00092
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00009	0.00009	0.00009
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	-0.00000	0.00002	0.00004
	(!B0 * !B1 * YN)	0.00088	0.00090	0.00092
	(!B0 * !B1 * YN)	-0.00003	-0.00003	0.00000
	(!B0 * !B1 * YN)	0.00010	0.00010	0.00010
	(!B0 * !B1 * YN)	0.00000	0.00002	0.00005

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX2H7H	(A1 * B1 * YN)	-0.00025	-0.00025	-0.00024
	(A1 * B1 * YN)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * YN)	0.00007	0.00007	0.00007
	(A1 * B1 * YN)	0.00013	0.00013	0.00013
	(A1 * !B1 * YN)	-0.00025	-0.00024	-0.00020
	(A1 * !B1 * YN)	-0.00002	-0.00002	-0.00001
	(A1 * !B1 * YN)	0.00008	0.00008	0.00009
	(A1 * !B1 * YN)	0.00012	0.00013	0.00013
	(A0 * !A1 * B1 * YN)	-0.00033	-0.00033	-0.00032
	(A0 * !A1 * B1 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B1 * YN)	0.00005	0.00007	0.00007
	(A0 * !A1 * B1 * YN)	0.00006	0.00007	0.00008
	(A0 * !A1 * !B1 * YN)	-0.00034	-0.00034	-0.00034
	(A0 * !A1 * !B1 * YN)	-0.00002	-0.00001	-0.00001
	(A0 * !A1 * !B1 * YN)	0.00008	0.00008	0.00008
	(A0 * !A1 * !B1 * YN)	0.00007	0.00007	0.00007
	(!A0 * !A1 * !B1 * YN)	-0.00030	-0.00030	-0.00030
	(!A0 * !A1 * !B1 * YN)	-0.00002	-0.00001	-0.00001
	(!A0 * !A1 * !B1 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !B1 * YN)	0.00023	0.00023	0.00023

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX2H7H	(A1 * B1 * YN)	0.00025	0.00025	0.00025
	(A1 * B1 * YN)	0.00001	0.00002	0.00002
	(A1 * B1 * YN)	-0.00007	-0.00007	-0.00007
	(A1 * B1 * YN)	-0.00013	-0.00013	-0.00013
	(A1 * !B1 * YN)	0.00025	0.00025	0.00025
	(A1 * !B1 * YN)	0.00001	0.00002	0.00002
	(A1 * !B1 * YN)	-0.00009	-0.00008	-0.00008
	(A1 * !B1 * YN)	-0.00013	-0.00013	-0.00012
	(A0 * !A1 * B1 * YN)	0.00032	0.00033	0.00033
	(A0 * !A1 * B1 * YN)	0.00001	0.00002	0.00002
	(A0 * !A1 * B1 * YN)	-0.00007	-0.00006	-0.00005
	(A0 * !A1 * B1 * YN)	-0.00006	-0.00006	-0.00005
	(A0 * !A1 * !B1 * YN)	0.00034	0.00035	0.00035
	(A0 * !A1 * !B1 * YN)	0.00001	0.00002	0.00002
	(A0 * !A1 * !B1 * YN)	-0.00008	-0.00008	-0.00008
	(A0 * !A1 * !B1 * YN)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * !B1 * YN)	0.00030	0.00030	0.00031
	(!A0 * !A1 * !B1 * YN)	0.00001	0.00002	0.00003
	(!A0 * !A1 * !B1 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !B1 * YN)	-0.00023	-0.00021	-0.00019

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX2H7H	(A1 * B0 * YN)	-0.00036	-0.00036	-0.00035
	(A1 * B0 * YN)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * YN)	0.00004	0.00004	0.00005
	(A1 * B0 * YN)	0.00009	0.00009	0.00010
	(A0 * !A1 * B0 * YN)	-0.00039	-0.00039	-0.00038
	(A0 * !A1 * B0 * YN)	-0.00002	-0.00002	-0.00001
	(A0 * !A1 * B0 * YN)	0.00004	0.00004	0.00005
	(A0 * !A1 * B0 * YN)	0.00006	0.00006	0.00007
	(!B0 * YN)	-0.00036	-0.00036	-0.00035
	(!B0 * YN)	-0.00001	-0.00001	-0.00001
	(!B0 * YN)	0.00005	0.00005	0.00006
	(!B0 * YN)	0.00007	0.00008	0.00008

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX2H7H	(A1 * B0 * YN)	0.00035	0.00036	0.00036
	(A1 * B0 * YN)	0.00001	0.00002	0.00002
	(A1 * B0 * YN)	-0.00004	-0.00004	-0.00004
	(A1 * B0 * YN)	-0.00008	-0.00008	-0.00008
	(A0 * !A1 * B0 * YN)	0.00038	0.00039	0.00039
	(A0 * !A1 * B0 * YN)	0.00001	0.00002	0.00002
	(A0 * !A1 * B0 * YN)	-0.00004	-0.00004	-0.00004
	(A0 * !A1 * B0 * YN)	-0.00006	-0.00006	-0.00006
	(!B0 * YN)	0.00036	0.00036	0.00036
	(!B0 * YN)	0.00001	0.00002	0.00002
	(!B0 * YN)	-0.00004	-0.00004	-0.00004
	(!B0 * YN)	-0.00008	-0.00008	-0.00007

NAND4BBX3H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

NAND4BB, In: AN, BN, C, D, Out: Y

Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	YN
0	x	0	x	1
0	x	1	0	1
0	0	1	1	0
x	1	1	1	1
1	x	x	x	1

Footprint

Cell Name	Area
NAND4BBX3H7H	5.04000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	B1	YN
NAND4BBX3H7H	0.00103	0.00094	0.00182	0.00207	0.03371

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND4BBX3H7H	0.00000	0.02742	0.05563

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4BBX3H7H	A0->YN (RR)	0.06900	0.17407	0.41491
	A1->YN (RR)	0.06920	0.17368	0.41324
	B0->YN (FR)	0.02552	0.13322	0.49405
	B1->YN (FR)	0.02320	0.12882	0.49018

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4BBX3H7H	A0->YN (FF)	0.13285	0.31518	0.76622
	A1->YN (FF)	0.12823	0.31088	0.76211
	B0->YN (RF)	0.06118	0.23828	0.74907
	B1->YN (RF)	0.05335	0.22387	0.72529

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4BBX3H7H	A0	0.00275	0.00283	0.00291
	A0	-0.00031	-0.00031	-0.00030
	A0	0.00033	0.00034	0.00034
	A0	0.00187	0.00194	0.00201
	A1	0.00289	0.00301	0.00309
	A1	-0.00031	-0.00031	-0.00030
	A1	0.00024	0.00024	0.00027
	A1	0.00200	0.00211	0.00219
	B0	0.00206	0.00212	0.00218
	B0	-0.00033	-0.00033	-0.00030
	B0	0.00014	0.00017	0.00021
	B0	-0.00017	-0.00010	-0.00004
	B1	0.00175	0.00183	0.00191
	B1	-0.00033	-0.00033	-0.00032
	B1	0.00004	0.00006	0.00008
	B1	-0.00022	-0.00012	-0.00004

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4BBX3H7H	A0	0.00223	0.00230	0.00238
	A0	0.00030	0.00031	0.00032
	A0	-0.00034	-0.00034	-0.00033
	A0	0.00333	0.00340	0.00348
	A1	0.00189	0.00198	0.00207
	A1	0.00031	0.00031	0.00031
	A1	-0.00027	-0.00024	-0.00024
	A1	0.00295	0.00304	0.00313
	B0	0.00021	0.00027	0.00032
	B0	0.00032	0.00033	0.00033
	B0	-0.00019	-0.00017	-0.00014
	B0	0.00252	0.00257	0.00262
	B1	0.00017	0.00024	0.00031
	B1	0.00032	0.00033	0.00033
	B1	-0.00006	-0.00006	-0.00004
	B1	0.00211	0.00219	0.00228

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX3H7H	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00023	0.00026	0.00029
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00004	0.00004	0.00004
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	-0.00007	-0.00007	-0.00006
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00112	0.00115	0.00119
	(A1 * !B1 * YN)	0.00023	0.00026	0.00029
	(A1 * !B1 * YN)	0.00004	0.00004	0.00004
	(A1 * !B1 * YN)	-0.00008	-0.00007	-0.00007
	(A1 * !B1 * YN)	0.00113	0.00116	0.00120
	(A1 * !B0 * B1 * YN)	0.00023	0.00026	0.00029
	(A1 * !B0 * B1 * YN)	0.00004	0.00004	0.00004
	(A1 * !B0 * B1 * YN)	-0.00008	-0.00007	-0.00007
	(A1 * !B0 * B1 * YN)	0.00112	0.00115	0.00119
	(!A1 * !B0 * !B1 * YN)	0.00040	0.00044	0.00047
	(!A1 * !B0 * !B1 * YN)	0.00004	0.00004	0.00004
	(!A1 * !B0 * !B1 * YN)	-0.00007	-0.00006	-0.00006
	(!A1 * !B0 * !B1 * YN)	0.00129	0.00133	0.00137

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX3H7H	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00129	0.00132	0.00136
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	-0.00004	-0.00004	-0.00004
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00006	0.00007	0.00007
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00041	0.00044	0.00049
	(A1 * !B1 * YN)	0.00129	0.00131	0.00136
	(A1 * !B1 * YN)	-0.00004	-0.00004	-0.00004
	(A1 * !B1 * YN)	0.00007	0.00007	0.00008
	(A1 * !B1 * YN)	0.00040	0.00042	0.00045
	(A1 * !B0 * B1 * YN)	0.00129	0.00131	0.00135
	(A1 * !B0 * B1 * YN)	-0.00004	-0.00004	-0.00004
	(A1 * !B0 * B1 * YN)	0.00007	0.00007	0.00008
	(A1 * !B0 * B1 * YN)	0.00040	0.00043	0.00046
	(!A1 * !B0 * !B1 * YN)	0.00112	0.00115	0.00119
	(!A1 * !B0 * !B1 * YN)	-0.00004	-0.00004	-0.00004
	(!A1 * !B0 * !B1 * YN)	0.00006	0.00007	0.00007
	(!A1 * !B0 * !B1 * YN)	0.00024	0.00027	0.00030

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX3H7H	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00037	0.00039	0.00042
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00004	0.00004	0.00004
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	-0.00012	-0.00012	-0.00011
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00125	0.00128	0.00130
	(!B0 * !B1 * YN)	0.00037	0.00040	0.00044
	(!B0 * !B1 * YN)	0.00004	0.00004	0.00004
	(!B0 * !B1 * YN)	-0.00013	-0.00013	-0.00013
	(!B0 * !B1 * YN)	0.00129	0.00131	0.00135

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX3H7H	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00098	0.00100	0.00104
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	-0.00004	-0.00004	-0.00004
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00011	0.00012	0.00012
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00010	0.00012	0.00016
	(!B0 * !B1 * YN)	0.00100	0.00103	0.00106
	(!B0 * !B1 * YN)	-0.00004	-0.00004	-0.00004
	(!B0 * !B1 * YN)	0.00013	0.00013	0.00013
	(!B0 * !B1 * YN)	0.00010	0.00013	0.00016

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX3H7H	(A1 * B1 * YN)	-0.00039	-0.00039	-0.00039
	(A1 * B1 * YN)	-0.00003	-0.00002	-0.00002
	(A1 * B1 * YN)	0.00009	0.00010	0.00010
	(A1 * B1 * YN)	0.00019	0.00019	0.00020
	(A1 * !B1 * YN)	-0.00040	-0.00039	-0.00039
	(A1 * !B1 * YN)	-0.00002	-0.00002	-0.00002
	(A1 * !B1 * YN)	0.00011	0.00011	0.00011
	(A1 * !B1 * YN)	0.00019	0.00019	0.00020
	(A0 * !A1 * B1 * YN)	-0.00044	-0.00044	-0.00044
	(A0 * !A1 * B1 * YN)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B1 * YN)	0.00010	0.00010	0.00010
	(A0 * !A1 * B1 * YN)	0.00014	0.00015	0.00015
	(A0 * !A1 * !B1 * YN)	-0.00047	-0.00046	-0.00046
	(A0 * !A1 * !B1 * YN)	-0.00003	-0.00002	-0.00002
	(A0 * !A1 * !B1 * YN)	0.00012	0.00012	0.00012
	(A0 * !A1 * !B1 * YN)	0.00015	0.00015	0.00015
	(!A0 * !A1 * !B1 * YN)	-0.00039	-0.00039	-0.00038
	(!A0 * !A1 * !B1 * YN)	-0.00003	-0.00002	-0.00001
	(!A0 * !A1 * !B1 * YN)	0.00003	0.00003	0.00004
	(!A0 * !A1 * !B1 * YN)	0.00043	0.00044	0.00044

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX3H7H	(A1 * B1 * YN)	0.00039	0.00040	0.00040
	(A1 * B1 * YN)	0.00002	0.00003	0.00003
	(A1 * B1 * YN)	-0.00010	-0.00009	-0.00009
	(A1 * B1 * YN)	-0.00019	-0.00019	-0.00019
	(A1 * !B1 * YN)	0.00040	0.00040	0.00040
	(A1 * !B1 * YN)	0.00002	0.00002	0.00002
	(A1 * !B1 * YN)	-0.00011	-0.00011	-0.00011
	(A1 * !B1 * YN)	-0.00020	-0.00019	-0.00019
	(A0 * !A1 * B1 * YN)	0.00044	0.00044	0.00044
	(A0 * !A1 * B1 * YN)	0.00002	0.00003	0.00003
	(A0 * !A1 * B1 * YN)	-0.00009	-0.00009	-0.00009
	(A0 * !A1 * B1 * YN)	-0.00014	-0.00014	-0.00014
	(A0 * !A1 * !B1 * YN)	0.00046	0.00047	0.00048
	(A0 * !A1 * !B1 * YN)	0.00002	0.00003	0.00003
	(A0 * !A1 * !B1 * YN)	-0.00012	-0.00012	-0.00012
	(A0 * !A1 * !B1 * YN)	-0.00015	-0.00015	-0.00015
	(!A0 * !A1 * !B1 * YN)	0.00039	0.00040	0.00043
	(!A0 * !A1 * !B1 * YN)	0.00001	0.00002	0.00003
	(!A0 * !A1 * !B1 * YN)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * !B1 * YN)	-0.00044	-0.00041	-0.00037

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX3H7H	(A1 * B0 * YN)	-0.00059	-0.00058	-0.00058
	(A1 * B0 * YN)	-0.00003	-0.00002	-0.00002
	(A1 * B0 * YN)	0.00007	0.00007	0.00007
	(A1 * B0 * YN)	0.00016	0.00016	0.00016
	(A0 * !A1 * B0 * YN)	-0.00060	-0.00059	-0.00059
	(A0 * !A1 * B0 * YN)	-0.00003	-0.00002	-0.00001
	(A0 * !A1 * B0 * YN)	0.00007	0.00007	0.00008
	(A0 * !A1 * B0 * YN)	0.00013	0.00014	0.00014
	(!B0 * YN)	-0.00059	-0.00058	-0.00058
	(!B0 * YN)	-0.00002	-0.00002	-0.00002
	(!B0 * YN)	0.00007	0.00008	0.00008
	(!B0 * YN)	0.00013	0.00013	0.00014

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX3H7H	(A1 * B0 * YN)	0.00058	0.00059	0.00059
	(A1 * B0 * YN)	0.00002	0.00003	0.00003
	(A1 * B0 * YN)	-0.00007	-0.00007	-0.00007
	(A1 * B0 * YN)	-0.00013	-0.00013	-0.00013
	(A0 * !A1 * B0 * YN)	0.00059	0.00059	0.00060
	(A0 * !A1 * B0 * YN)	0.00002	0.00002	0.00003
	(A0 * !A1 * B0 * YN)	-0.00007	-0.00007	-0.00006
	(A0 * !A1 * B0 * YN)	-0.00013	-0.00012	-0.00012
	(!B0 * YN)	0.00058	0.00059	0.00059
	(!B0 * YN)	0.00002	0.00003	0.00003
	(!B0 * YN)	-0.00008	-0.00007	-0.00006
	(!B0 * YN)	-0.00013	-0.00013	-0.00013

NAND4BBX4H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

NAND4BB, In: AN, BN, C, D, Out: Y

Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	YN
0	x	0	x	1
0	x	1	0	1
0	0	1	1	0
x	1	1	1	1
1	x	x	x	1

Footprint

Cell Name	Area
NAND4BBX4H7H	5.32000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	B1	YN
NAND4BBX4H7H	0.00119	0.00112	0.00212	0.00242	0.04251

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND4BBX4H7H	0.00000	0.04762	0.09667

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4BBX4H7H	A0->YN (RR)	0.05857	0.16198	0.39661
	A1->YN (RR)	0.05873	0.16149	0.39529
	B0->YN (FR)	0.02382	0.13204	0.49733
	B1->YN (FR)	0.02159	0.12772	0.49327

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4BBX4H7H	A0->YN (FF)	0.11522	0.29520	0.73792
	A1->YN (FF)	0.11086	0.29090	0.73340
	B0->YN (RF)	0.05689	0.23462	0.74899
	B1->YN (RF)	0.04915	0.21984	0.72303

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4BBX4H7H	A0	0.00325	0.00335	0.00343
	A0	-0.00041	-0.00040	-0.00039
	A0	0.00042	0.00043	0.00046
	A0	0.00213	0.00221	0.00229
	A1	0.00336	0.00349	0.00359
	A1	-0.00041	-0.00040	-0.00039
	A1	0.00028	0.00031	0.00033
	A1	0.00226	0.00238	0.00248
	B0	0.00243	0.00253	0.00260
	B0	-0.00044	-0.00044	-0.00042
	B0	0.00016	0.00022	0.00032
	B0	-0.00026	-0.00017	-0.00008
	B1	0.00207	0.00217	0.00227
	B1	-0.00044	-0.00044	-0.00043
	B1	0.00006	0.00008	0.00011
	B1	-0.00030	-0.00018	-0.00008

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4BBX4H7H	A0	0.00264	0.00273	0.00282
	A0	0.00040	0.00040	0.00041
	A0	-0.00046	-0.00043	-0.00042
	A0	0.00403	0.00411	0.00421
	A1	0.00225	0.00235	0.00245
	A1	0.00040	0.00040	0.00041
	A1	-0.00033	-0.00031	-0.00028
	A1	0.00357	0.00367	0.00377
	B0	0.00022	0.00029	0.00035
	B0	0.00042	0.00044	0.00044
	B0	-0.00025	-0.00022	-0.00016
	B0	0.00301	0.00309	0.00315
	B1	0.00017	0.00026	0.00035
	B1	0.00043	0.00044	0.00044
	B1	-0.00008	-0.00008	-0.00006
	B1	0.00251	0.00261	0.00271

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX4H7H	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00028	0.00032	0.00036
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00006	0.00006	0.00006
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	-0.00010	-0.00009	-0.00008
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00135	0.00138	0.00144
	(A1 * !B1 * YN)	0.00028	0.00031	0.00036
	(A1 * !B1 * YN)	0.00006	0.00006	0.00006
	(A1 * !B1 * YN)	-0.00011	-0.00010	-0.00009
	(A1 * !B1 * YN)	0.00136	0.00140	0.00145
	(A1 * !B0 * B1 * YN)	0.00028	0.00031	0.00036
	(A1 * !B0 * B1 * YN)	0.00006	0.00006	0.00006
	(A1 * !B0 * B1 * YN)	-0.00010	-0.00010	-0.00009
	(A1 * !B0 * B1 * YN)	0.00135	0.00138	0.00144
	(!A1 * !B0 * !B1 * YN)	0.00045	0.00049	0.00053
	(!A1 * !B0 * !B1 * YN)	0.00006	0.00006	0.00007
	(!A1 * !B0 * !B1 * YN)	-0.00010	-0.00009	-0.00009
	(!A1 * !B0 * !B1 * YN)	0.00151	0.00156	0.00161

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX4H7H	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00149	0.00152	0.00156
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	-0.00006	-0.00006	-0.00006
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00008	0.00009	0.00010
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00043	0.00046	0.00052
	(A1 * !B1 * YN)	0.00149	0.00152	0.00156
	(A1 * !B1 * YN)	-0.00006	-0.00006	-0.00006
	(A1 * !B1 * YN)	0.00009	0.00010	0.00011
	(A1 * !B1 * YN)	0.00041	0.00044	0.00050
	(A1 * !B0 * B1 * YN)	0.00148	0.00151	0.00156
	(A1 * !B0 * B1 * YN)	-0.00006	-0.00006	-0.00006
	(A1 * !B0 * B1 * YN)	0.00009	0.00010	0.00010
	(A1 * !B0 * B1 * YN)	0.00042	0.00045	0.00051
	(!A1 * !B0 * !B1 * YN)	0.00132	0.00135	0.00140
	(!A1 * !B0 * !B1 * YN)	-0.00006	-0.00006	-0.00006
	(!A1 * !B0 * !B1 * YN)	0.00009	0.00009	0.00010
	(!A1 * !B0 * !B1 * YN)	0.00026	0.00029	0.00033

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX4H7H	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00043	0.00045	0.00048
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00006	0.00006	0.00007
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	-0.00016	-0.00015	-0.00015
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00150	0.00153	0.00156
	(!B0 * !B1 * YN)	0.00043	0.00045	0.00048
	(!B0 * !B1 * YN)	0.00006	0.00006	0.00007
	(!B0 * !B1 * YN)	-0.00018	-0.00018	-0.00017
	(!B0 * !B1 * YN)	0.00155	0.00157	0.00161

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX4H7H	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00115	0.00118	0.00121
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	-0.00006	-0.00006	-0.00006
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00015	0.00016	0.00016
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00008	0.00010	0.00014
	(!B0 * !B1 * YN)	0.00118	0.00120	0.00124
	(!B0 * !B1 * YN)	-0.00006	-0.00006	-0.00006
	(!B0 * !B1 * YN)	0.00017	0.00018	0.00018
	(!B0 * !B1 * YN)	0.00008	0.00011	0.00014

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX4H7H	(A1 * B1 * YN)	-0.00048	-0.00048	-0.00048
	(A1 * B1 * YN)	-0.00003	-0.00003	-0.00003
	(A1 * B1 * YN)	0.00012	0.00012	0.00013
	(A1 * B1 * YN)	0.00020	0.00020	0.00020
	(A1 * !B1 * YN)	-0.00048	-0.00048	-0.00048
	(A1 * !B1 * YN)	-0.00003	-0.00003	-0.00003
	(A1 * !B1 * YN)	0.00014	0.00014	0.00014
	(A1 * !B1 * YN)	0.00021	0.00021	0.00021
	(A0 * !A1 * B1 * YN)	-0.00054	-0.00053	-0.00053
	(A0 * !A1 * B1 * YN)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * B1 * YN)	0.00012	0.00013	0.00013
	(A0 * !A1 * B1 * YN)	0.00015	0.00016	0.00016
	(A0 * !A1 * !B1 * YN)	-0.00057	-0.00056	-0.00056
	(A0 * !A1 * !B1 * YN)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * !B1 * YN)	0.00015	0.00015	0.00016
	(A0 * !A1 * !B1 * YN)	0.00016	0.00016	0.00016
	(!A0 * !A1 * !B1 * YN)	-0.00048	-0.00048	-0.00047
	(!A0 * !A1 * !B1 * YN)	-0.00003	-0.00003	-0.00001
	(!A0 * !A1 * !B1 * YN)	0.00004	0.00004	0.00005
	(!A0 * !A1 * !B1 * YN)	0.00049	0.00049	0.00050

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX4H7H	(A1 * B1 * YN)	0.00048	0.00048	0.00048
	(A1 * B1 * YN)	0.00003	0.00003	0.00003
	(A1 * B1 * YN)	-0.00012	-0.00012	-0.00012
	(A1 * B1 * YN)	-0.00020	-0.00020	-0.00020
	(A1 * !B1 * YN)	0.00048	0.00049	0.00049
	(A1 * !B1 * YN)	0.00003	0.00003	0.00003
	(A1 * !B1 * YN)	-0.00014	-0.00014	-0.00014
	(A1 * !B1 * YN)	-0.00021	-0.00021	-0.00021
	(A0 * !A1 * B1 * YN)	0.00053	0.00053	0.00054
	(A0 * !A1 * B1 * YN)	0.00003	0.00003	0.00003
	(A0 * !A1 * B1 * YN)	-0.00012	-0.00012	-0.00012
	(A0 * !A1 * B1 * YN)	-0.00015	-0.00015	-0.00015
	(A0 * !A1 * !B1 * YN)	0.00057	0.00058	0.00058
	(A0 * !A1 * !B1 * YN)	0.00003	0.00003	0.00003
	(A0 * !A1 * !B1 * YN)	-0.00016	-0.00015	-0.00015
	(A0 * !A1 * !B1 * YN)	-0.00016	-0.00016	-0.00016
	(!A0 * !A1 * !B1 * YN)	0.00048	0.00049	0.00053
	(!A0 * !A1 * !B1 * YN)	0.00001	0.00003	0.00003
	(!A0 * !A1 * !B1 * YN)	-0.00005	-0.00004	-0.00004
	(!A0 * !A1 * !B1 * YN)	-0.00049	-0.00046	-0.00041

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX4H7H	(A1 * B0 * YN)	-0.00072	-0.00069	-0.00053
	(A1 * B0 * YN)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * YN)	0.00008	0.00008	0.00009
	(A1 * B0 * YN)	0.00014	0.00015	0.00016
	(A0 * !A1 * B0 * YN)	-0.00073	-0.00072	-0.00072
	(A0 * !A1 * B0 * YN)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * B0 * YN)	0.00009	0.00009	0.00009
	(A0 * !A1 * B0 * YN)	0.00013	0.00013	0.00013
	(!B0 * YN)	-0.00072	-0.00072	-0.00071
	(!B0 * YN)	-0.00003	-0.00003	-0.00002
	(!B0 * YN)	0.00009	0.00010	0.00010
	(!B0 * YN)	0.00012	0.00012	0.00013

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX4H7H	(A1 * B0 * YN)	0.00071	0.00072	0.00072
	(A1 * B0 * YN)	0.00003	0.00003	0.00003
	(A1 * B0 * YN)	-0.00009	-0.00008	-0.00007
	(A1 * B0 * YN)	-0.00014	-0.00013	-0.00012
	(A0 * !A1 * B0 * YN)	0.00072	0.00072	0.00073
	(A0 * !A1 * B0 * YN)	0.00003	0.00003	0.00003
	(A0 * !A1 * B0 * YN)	-0.00009	-0.00009	-0.00009
	(A0 * !A1 * B0 * YN)	-0.00011	-0.00011	-0.00010
	(!B0 * YN)	0.00071	0.00072	0.00072
	(!B0 * YN)	0.00003	0.00003	0.00003
	(!B0 * YN)	-0.00010	-0.00010	-0.00009
	(!B0 * YN)	-0.00012	-0.00012	-0.00011

NAND4BBX6H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

NAND4BB, In: AN, BN, C, D, Out: Y

Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	YN
0	x	0	x	1
0	x	1	0	1
0	0	1	1	0
x	1	1	1	1
1	x	x	x	1

Footprint

Cell Name	Area
NAND4BBX6H7H	6.72000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	B1	YN
NAND4BBX6H7H	0.00122	0.00113	0.00331	0.00340	0.06359

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND4BBX6H7H	0.00000	0.06904	0.14647

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4BBX6H7H	A0->YN (RR)	0.06031	0.16740	0.41209
	A1->YN (RR)	0.06026	0.16696	0.41229
	B0->YN (FR)	0.02296	0.13068	0.49619
	B1->YN (FR)	0.01974	0.12483	0.49101

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4BBX6H7H	A0->YN (FF)	0.11705	0.30205	0.75850
	A1->YN (FF)	0.11000	0.29564	0.75413
	B0->YN (RF)	0.05536	0.23417	0.75366
	B1->YN (RF)	0.04417	0.21561	0.72340

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4BBX6H7H	A0	0.00479	0.00492	0.00502
	A0	-0.00062	-0.00061	-0.00057
	A0	0.00064	0.00066	0.00066
	A0	0.00262	0.00273	0.00282
	A1	0.00466	0.00483	0.00495
	A1	-0.00062	-0.00061	-0.00061
	A1	0.00047	0.00048	0.00048
	A1	0.00258	0.00274	0.00285
	B0	0.00374	0.00386	0.00398
	B0	-0.00066	-0.00066	-0.00063
	B0	0.00027	0.00033	0.00034
	B0	-0.00051	-0.00036	-0.00025
	B1	0.00296	0.00312	0.00326
	B1	-0.00066	-0.00065	-0.00063
	B1	0.00003	0.00012	0.00017
	B1	-0.00053	-0.00035	-0.00016

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4BBX6H7H	A0	0.00351	0.00362	0.00374
	A0	0.00061	0.00062	0.00063
	A0	-0.00066	-0.00066	-0.00064
	A0	0.00612	0.00622	0.00635
	A1	0.00291	0.00302	0.00312
	A1	0.00061	0.00062	0.00063
	A1	-0.00048	-0.00048	-0.00047
	A1	0.00534	0.00545	0.00556
	B0	0.00012	0.00023	0.00032
	B0	0.00065	0.00066	0.00067
	B0	-0.00034	-0.00033	-0.00027
	B0	0.00455	0.00465	0.00475
	B1	0.00009	0.00022	0.00035
	B1	0.00065	0.00066	0.00067
	B1	-0.00012	-0.00012	-0.00003
	B1	0.00355	0.00370	0.00384

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX6H7H	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00051	0.00054	0.00058
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00008	0.00009	0.00009
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	-0.00012	-0.00011	-0.00010
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00158	0.00163	0.00168
	(A1 * !B1 * YN)	0.00051	0.00054	0.00058
	(A1 * !B1 * YN)	0.00009	0.00009	0.00009
	(A1 * !B1 * YN)	-0.00013	-0.00012	-0.00011
	(A1 * !B1 * YN)	0.00159	0.00163	0.00168
	(A1 * !B0 * B1 * YN)	0.00051	0.00054	0.00058
	(A1 * !B0 * B1 * YN)	0.00008	0.00009	0.00009
	(A1 * !B0 * B1 * YN)	-0.00013	-0.00012	-0.00012
	(A1 * !B0 * B1 * YN)	0.00158	0.00162	0.00168
	(!A1 * !B0 * !B1 * YN)	0.00073	0.00077	0.00083
	(!A1 * !B0 * !B1 * YN)	0.00008	0.00009	0.00009
	(!A1 * !B0 * !B1 * YN)	-0.00013	-0.00012	-0.00011
	(!A1 * !B0 * !B1 * YN)	0.00183	0.00188	0.00195

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX6H7H	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00183	0.00186	0.00190
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	-0.00009	-0.00009	-0.00008
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00010	0.00011	0.00012
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00076	0.00079	0.00084
	(A1 * !B1 * YN)	0.00182	0.00185	0.00189
	(A1 * !B1 * YN)	-0.00009	-0.00009	-0.00009
	(A1 * !B1 * YN)	0.00011	0.00012	0.00013
	(A1 * !B1 * YN)	0.00075	0.00077	0.00081
	(A1 * !B0 * B1 * YN)	0.00182	0.00185	0.00189
	(A1 * !B0 * B1 * YN)	-0.00009	-0.00009	-0.00008
	(A1 * !B0 * B1 * YN)	0.00012	0.00012	0.00013
	(A1 * !B0 * B1 * YN)	0.00075	0.00078	0.00081
	(!A1 * !B0 * !B1 * YN)	0.00162	0.00165	0.00169
	(!A1 * !B0 * !B1 * YN)	-0.00009	-0.00009	-0.00008
	(!A1 * !B0 * !B1 * YN)	0.00011	0.00012	0.00013
	(!A1 * !B0 * !B1 * YN)	0.00052	0.00055	0.00060

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX6H7H	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00054	0.00056	0.00059
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00008	0.00009	0.00009
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	-0.00027	-0.00027	-0.00027
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00180	0.00183	0.00186
	(!B0 * !B1 * YN)	0.00054	0.00056	0.00059
	(!B0 * !B1 * YN)	0.00009	0.00009	0.00009
	(!B0 * !B1 * YN)	-0.00031	-0.00030	-0.00030
	(!B0 * !B1 * YN)	0.00188	0.00190	0.00193

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX6H7H	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00151	0.00154	0.00158
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	-0.00009	-0.00009	-0.00008
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00027	0.00027	0.00027
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00025	0.00027	0.00031
	(!B0 * !B1 * YN)	0.00154	0.00157	0.00160
	(!B0 * !B1 * YN)	-0.00009	-0.00009	-0.00009
	(!B0 * !B1 * YN)	0.00030	0.00030	0.00031
	(!B0 * !B1 * YN)	0.00025	0.00027	0.00030

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX6H7H	(A1 * B1 * YN)	-0.00073	-0.00073	-0.00072
	(A1 * B1 * YN)	-0.00004	-0.00004	-0.00004
	(A1 * B1 * YN)	0.00021	0.00022	0.00022
	(A1 * B1 * YN)	0.00031	0.00031	0.00032
	(A1 * !B1 * YN)	-0.00073	-0.00073	-0.00072
	(A1 * !B1 * YN)	-0.00004	-0.00004	-0.00004
	(A1 * !B1 * YN)	0.00025	0.00025	0.00025
	(A1 * !B1 * YN)	0.00030	0.00031	0.00032
	(A0 * !A1 * B1 * YN)	-0.00087	-0.00087	-0.00086
	(A0 * !A1 * B1 * YN)	-0.00005	-0.00004	-0.00004
	(A0 * !A1 * B1 * YN)	0.00021	0.00021	0.00022
	(A0 * !A1 * B1 * YN)	0.00020	0.00021	0.00022
	(A0 * !A1 * !B1 * YN)	-0.00092	-0.00092	-0.00092
	(A0 * !A1 * !B1 * YN)	-0.00005	-0.00004	-0.00004
	(A0 * !A1 * !B1 * YN)	0.00024	0.00025	0.00025
	(A0 * !A1 * !B1 * YN)	0.00022	0.00023	0.00023
	(!A0 * !A1 * !B1 * YN)	-0.00076	-0.00075	-0.00074
	(!A0 * !A1 * !B1 * YN)	-0.00005	-0.00004	-0.00003
	(!A0 * !A1 * !B1 * YN)	0.00007	0.00007	0.00008
	(!A0 * !A1 * !B1 * YN)	0.00081	0.00081	0.00082

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX6H7H	(A1 * B1 * YN)	0.00073	0.00073	0.00074
	(A1 * B1 * YN)	0.00004	0.00004	0.00005
	(A1 * B1 * YN)	-0.00021	-0.00021	-0.00020
	(A1 * B1 * YN)	-0.00031	-0.00031	-0.00031
	(A1 * !B1 * YN)	0.00074	0.00074	0.00075
	(A1 * !B1 * YN)	0.00004	0.00005	0.00005
	(A1 * !B1 * YN)	-0.00025	-0.00025	-0.00025
	(A1 * !B1 * YN)	-0.00032	-0.00031	-0.00030
	(A0 * !A1 * B1 * YN)	0.00086	0.00087	0.00087
	(A0 * !A1 * B1 * YN)	0.00004	0.00004	0.00005
	(A0 * !A1 * B1 * YN)	-0.00021	-0.00021	-0.00020
	(A0 * !A1 * B1 * YN)	-0.00019	-0.00018	-0.00017
	(A0 * !A1 * !B1 * YN)	0.00094	0.00095	0.00095
	(A0 * !A1 * !B1 * YN)	0.00004	0.00005	0.00005
	(A0 * !A1 * !B1 * YN)	-0.00025	-0.00025	-0.00024
	(A0 * !A1 * !B1 * YN)	-0.00023	-0.00023	-0.00022
	(!A0 * !A1 * !B1 * YN)	0.00075	0.00077	0.00081
	(!A0 * !A1 * !B1 * YN)	0.00004	0.00005	0.00006
	(!A0 * !A1 * !B1 * YN)	-0.00008	-0.00007	-0.00007
	(!A0 * !A1 * !B1 * YN)	-0.00081	-0.00074	-0.00064

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX6H7H	(A1 * B0 * YN)	-0.00105	-0.00104	-0.00102
	(A1 * B0 * YN)	-0.00004	-0.00004	-0.00004
	(A1 * B0 * YN)	0.00011	0.00013	0.00014
	(A1 * B0 * YN)	0.00021	0.00021	0.00023
	(A0 * !A1 * B0 * YN)	-0.00106	-0.00106	-0.00104
	(A0 * !A1 * B0 * YN)	-0.00005	-0.00004	-0.00004
	(A0 * !A1 * B0 * YN)	0.00013	0.00014	0.00015
	(A0 * !A1 * B0 * YN)	0.00018	0.00019	0.00019
	(!B0 * YN)	-0.00106	-0.00105	-0.00103
	(!B0 * YN)	-0.00004	-0.00004	-0.00003
	(!B0 * YN)	0.00014	0.00014	0.00015
	(!B0 * YN)	0.00016	0.00016	0.00017

Passive power(pJ) for B1 falling (conditional):

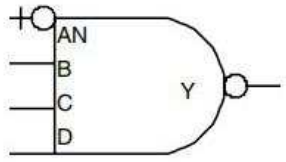
Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX6H7H	(A1 * B0 * YN)	0.00104	0.00105	0.00106
	(A1 * B0 * YN)	0.00004	0.00005	0.00005
	(A1 * B0 * YN)	-0.00013	-0.00012	-0.00011
	(A1 * B0 * YN)	-0.00019	-0.00017	-0.00017
	(A0 * !A1 * B0 * YN)	0.00104	0.00106	0.00106
	(A0 * !A1 * B0 * YN)	0.00004	0.00005	0.00007
	(A0 * !A1 * B0 * YN)	-0.00013	-0.00013	-0.00013
	(A0 * !A1 * B0 * YN)	-0.00016	-0.00016	-0.00016
	(!B0 * YN)	0.00104	0.00105	0.00106
	(!B0 * YN)	0.00004	0.00004	0.00005
	(!B0 * YN)	-0.00014	-0.00013	-0.00012
	(!B0 * YN)	-0.00017	-0.00016	-0.00016

NAND4BX0P5H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND4B cell provides a logical NAND of one inverted input (AN) and three non-inverted inputs (B, C, D). The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
AN	B	C	D	Y
x	0	x	x	1
x	1	0	x	1
x	1	1	0	1
0	1	1	1	0
1	1	1	1	1

Footprint

Cell Name	Area
NAND4BX0P5H7H	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	AN	B	C	D	Y
NAND4BX0P5H7H	0.00098	0.00079	0.00081	0.00094	0.01268

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND4BX0P5H7H	0.00000	0.01129	0.03237

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4BX0P5H7H	AN->Y (RR)	0.06002	0.15378	0.36435
	B->Y (FR)	0.03586	0.14928	0.51262
	C->Y (FR)	0.03374	0.14537	0.50827
	D->Y (FR)	0.03197	0.14177	0.50553

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4BX0P5H7H	AN->Y (FF)	0.11570	0.28041	0.68306
	B->Y (RF)	0.08079	0.24984	0.72057
	C->Y (RF)	0.07656	0.24959	0.74374
	D->Y (RF)	0.07147	0.24022	0.73325

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4BX0P5H7H	AN	0.00113	0.00117	0.00122
	AN	-0.00009	-0.00009	-0.00008
	AN	0.00010	0.00011	0.00011
	AN	0.00108	0.00112	0.00116
	B	0.00109	0.00112	0.00114
	B	-0.00011	-0.00011	-0.00011
	B	0.00009	0.00009	0.00010
	B	-0.00004	-0.00001	0.00001
	C	0.00095	0.00098	0.00100
	C	-0.00011	-0.00011	-0.00010
	C	0.00006	0.00006	0.00006
	C	-0.00003	0.00001	0.00003
	D	0.00085	0.00089	0.00092
	D	-0.00011	-0.00011	-0.00010
	D	0.00000	0.00002	0.00002
	D	-0.00006	-0.00001	0.00003

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4BX0P5H7H	AN	0.00099	0.00103	0.00108
	AN	0.00008	0.00009	0.00009
	AN	-0.00011	-0.00011	-0.00010
	AN	0.00113	0.00117	0.00121
	B	-0.00006	-0.00003	-0.00002
	B	0.00011	0.00011	0.00011
	B	-0.00010	-0.00009	-0.00009
	B	0.00114	0.00116	0.00117
	C	-0.00003	-0.00001	0.00001
	C	0.00010	0.00011	0.00011
	C	-0.00006	-0.00006	-0.00006
	C	0.00097	0.00099	0.00101
	D	-0.00005	-0.00002	0.00002
	D	0.00011	0.00011	0.00011
	D	-0.00002	-0.00002	-0.00000
	D	0.00085	0.00088	0.00092

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX0P5H7H	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00001	0.00003	0.00007
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00003	0.00003	0.00003
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	-0.00004	-0.00003	-0.00003
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00083	0.00086	0.00090
	(B * !C * !D * Y)	0.00001	0.00003	0.00006
	(B * !C * !D * Y)	0.00003	0.00003	0.00003
	(B * !C * !D * Y)	-0.00004	-0.00004	-0.00003
	(B * !C * !D * Y)	0.00082	0.00085	0.00089
	(!B * !D * Y)	0.00001	0.00003	0.00006
	(!B * !D * Y)	0.00003	0.00003	0.00003
	(!B * !D * Y)	-0.00004	-0.00004	-0.00004
	(!B * !D * Y)	0.00081	0.00084	0.00087
	(!B * !C * D * Y)	0.00001	0.00003	0.00006
	(!B * !C * D * Y)	0.00003	0.00003	0.00003
	(!B * !C * D * Y)	-0.00004	-0.00004	-0.00004
	(!B * !C * D * Y)	0.00081	0.00084	0.00087

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX0P5H7H	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00082	0.00084	0.00088
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	-0.00003	-0.00003	-0.00003
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00003	0.00003	0.00004
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00000	0.00003	0.00006
	(B * !C * !D * Y)	0.00082	0.00084	0.00087
	(B * !C * !D * Y)	-0.00003	-0.00003	-0.00003
	(B * !C * !D * Y)	0.00003	0.00004	0.00004
	(B * !C * !D * Y)	0.00000	0.00003	0.00005
	(!B * !D * Y)	0.00081	0.00084	0.00087
	(!B * !D * Y)	-0.00003	-0.00003	-0.00003
	(!B * !D * Y)	0.00004	0.00004	0.00004
	(!B * !D * Y)	0.00001	0.00003	0.00006
	(!B * !C * D * Y)	0.00081	0.00084	0.00087
	(!B * !C * D * Y)	-0.00003	-0.00003	-0.00003
	(!B * !C * D * Y)	0.00004	0.00004	0.00004
	(!B * !C * D * Y)	0.00001	0.00003	0.00006

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX0P5H7H	(AN * C * D * Y)	-0.00014	-0.00014	-0.00014
	(AN * C * D * Y)	-0.00001	-0.00001	-0.00001
	(AN * C * D * Y)	0.00004	0.00004	0.00004
	(AN * C * D * Y)	0.00012	0.00012	0.00012
	(AN * C * !D * Y)	-0.00014	-0.00014	-0.00013
	(AN * C * !D * Y)	-0.00001	-0.00001	-0.00001
	(AN * C * !D * Y)	0.00005	0.00005	0.00005
	(AN * C * !D * Y)	0.00012	0.00012	0.00012
	(AN * !C * D * Y)	-0.00014	-0.00014	-0.00014
	(AN * !C * D * Y)	-0.00001	-0.00001	-0.00001
	(AN * !C * D * Y)	0.00005	0.00005	0.00005
	(AN * !C * D * Y)	0.00012	0.00012	0.00012
	(AN * !C * !D * Y)	-0.00014	-0.00014	-0.00013
	(AN * !C * !D * Y)	-0.00001	-0.00001	-0.00001
	(AN * !C * !D * Y)	0.00005	0.00005	0.00005
	(AN * !C * !D * Y)	0.00012	0.00012	0.00012
	(!AN * C * !D * Y)	-0.00017	-0.00017	-0.00017
	(!AN * C * !D * Y)	-0.00001	-0.00001	-0.00001
	(!AN * C * !D * Y)	0.00001	0.00001	0.00002
	(!AN * C * !D * Y)	0.00019	0.00019	0.00019
	(!AN * !C * D * Y)	-0.00017	-0.00017	-0.00017
	(!AN * !C * D * Y)	-0.00001	-0.00001	-0.00001
	(!AN * !C * D * Y)	0.00001	0.00001	0.00001
	(!AN * !C * D * Y)	0.00020	0.00020	0.00020
	(!AN * !C * !D * Y)	-0.00017	-0.00017	-0.00017
	(!AN * !C * !D * Y)	-0.00001	-0.00001	-0.00001
	(!AN * !C * !D * Y)	0.00001	0.00001	0.00001
	(!AN * !C * !D * Y)	0.00019	0.00019	0.00020

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX0P5H7H	(AN * C * D * Y)	0.00014	0.00014	0.00014
	(AN * C * D * Y)	0.00001	0.00001	0.00001
	(AN * C * D * Y)	-0.00004	-0.00004	-0.00004
	(AN * C * D * Y)	-0.00012	-0.00012	-0.00012
	(AN * C * !D * Y)	0.00014	0.00014	0.00014
	(AN * C * !D * Y)	0.00001	0.00001	0.00001
	(AN * C * !D * Y)	-0.00005	-0.00005	-0.00005
	(AN * C * !D * Y)	-0.00012	-0.00012	-0.00012
	(AN * !C * D * Y)	0.00014	0.00014	0.00014
	(AN * !C * D * Y)	0.00001	0.00001	0.00001
	(AN * !C * D * Y)	-0.00005	-0.00005	-0.00005
	(AN * !C * D * Y)	-0.00012	-0.00012	-0.00012
	(AN * !C * !D * Y)	0.00013	0.00014	0.00014
	(AN * !C * !D * Y)	0.00001	0.00001	0.00001
	(AN * !C * !D * Y)	-0.00005	-0.00005	-0.00005
	(AN * !C * !D * Y)	-0.00012	-0.00012	-0.00012
	(!AN * C * !D * Y)	0.00017	0.00017	0.00017
	(!AN * C * !D * Y)	0.00001	0.00001	0.00001
	(!AN * C * !D * Y)	-0.00002	-0.00001	-0.00001
	(!AN * C * !D * Y)	-0.00019	-0.00018	-0.00015
	(!AN * !C * D * Y)	0.00017	0.00017	0.00017
	(!AN * !C * D * Y)	0.00001	0.00001	0.00001
	(!AN * !C * D * Y)	-0.00001	-0.00001	-0.00001
	(!AN * !C * D * Y)	-0.00020	-0.00018	-0.00017
	(!AN * !C * !D * Y)	0.00017	0.00017	0.00017
	(!AN * !C * !D * Y)	0.00001	0.00001	0.00001
	(!AN * !C * !D * Y)	-0.00001	-0.00001	-0.00001
	(!AN * !C * !D * Y)	-0.00019	-0.00019	-0.00017

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX0P5H7H	(AN * B * D * Y)	-0.00015	-0.00015	-0.00015
	(AN * B * D * Y)	-0.00001	-0.00001	-0.00001
	(AN * B * D * Y)	0.00004	0.00004	0.00004
	(AN * B * D * Y)	0.00007	0.00007	0.00008
	(AN * B * !D * Y)	-0.00015	-0.00015	-0.00015
	(AN * B * !D * Y)	-0.00001	-0.00001	-0.00001
	(AN * B * !D * Y)	0.00004	0.00005	0.00005
	(AN * B * !D * Y)	0.00007	0.00007	0.00007
	(!B * D * Y)	-0.00015	-0.00015	-0.00015
	(!B * D * Y)	-0.00001	-0.00001	-0.00001
	(!B * D * Y)	0.00004	0.00004	0.00004
	(!B * D * Y)	0.00006	0.00006	0.00006
	(!B * !D * Y)	-0.00015	-0.00015	-0.00015
	(!B * !D * Y)	-0.00001	-0.00001	-0.00001
	(!B * !D * Y)	0.00005	0.00005	0.00005
	(!B * !D * Y)	0.00006	0.00006	0.00006
	(!AN * B * !D * Y)	-0.00016	-0.00016	-0.00016
	(!AN * B * !D * Y)	-0.00001	-0.00001	-0.00000
	(!AN * B * !D * Y)	0.00001	0.00001	0.00001
	(!AN * B * !D * Y)	0.00018	0.00018	0.00018

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX0P5H7H	(AN * B * D * Y)	0.00015	0.00015	0.00015
	(AN * B * D * Y)	0.00001	0.00001	0.00001
	(AN * B * D * Y)	-0.00004	-0.00004	-0.00004
	(AN * B * D * Y)	-0.00007	-0.00007	-0.00006
	(AN * B * !D * Y)	0.00015	0.00015	0.00015
	(AN * B * !D * Y)	0.00001	0.00001	0.00001
	(AN * B * !D * Y)	-0.00005	-0.00005	-0.00004
	(AN * B * !D * Y)	-0.00007	-0.00007	-0.00007
	(!B * D * Y)	0.00015	0.00015	0.00015
	(!B * D * Y)	0.00001	0.00001	0.00001
	(!B * D * Y)	-0.00004	-0.00004	-0.00004
	(!B * D * Y)	-0.00006	-0.00006	-0.00006
	(!B * !D * Y)	0.00015	0.00015	0.00015
	(!B * !D * Y)	0.00001	0.00001	0.00001
	(!B * !D * Y)	-0.00005	-0.00005	-0.00005
	(!B * !D * Y)	-0.00006	-0.00006	-0.00006
	(!AN * B * !D * Y)	0.00016	0.00016	0.00018
	(!AN * B * !D * Y)	0.00000	0.00001	0.00001
	(!AN * B * !D * Y)	-0.00001	-0.00001	-0.00001
	(!AN * B * !D * Y)	-0.00018	-0.00017	-0.00015

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX0P5H7H	(AN * B * C * Y)	-0.00026	-0.00026	-0.00026
	(AN * B * C * Y)	-0.00001	-0.00001	-0.00001
	(AN * B * C * Y)	0.00002	0.00002	0.00003
	(AN * B * C * Y)	0.00007	0.00007	0.00008
	(!C * Y)	-0.00026	-0.00026	-0.00026
	(!C * Y)	-0.00001	-0.00001	-0.00001
	(!C * Y)	0.00003	0.00003	0.00003
	(!C * Y)	0.00007	0.00007	0.00007
	(!B * C * Y)	-0.00026	-0.00026	-0.00026
	(!B * C * Y)	-0.00001	-0.00001	-0.00001
	(!B * C * Y)	0.00002	0.00002	0.00002
	(!B * C * Y)	0.00007	0.00007	0.00007

Passive power(pJ) for D falling (conditional):

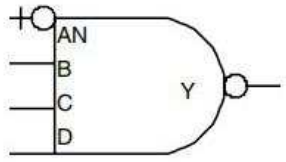
Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX0P5H7H	(AN * B * C * Y)	0.00026	0.00026	0.00026
	(AN * B * C * Y)	0.00001	0.00001	0.00001
	(AN * B * C * Y)	-0.00002	-0.00002	-0.00002
	(AN * B * C * Y)	-0.00007	-0.00007	-0.00007
	(!C * Y)	0.00026	0.00026	0.00026
	(!C * Y)	0.00001	0.00001	0.00001
	(!C * Y)	-0.00002	-0.00002	-0.00002
	(!C * Y)	-0.00007	-0.00007	-0.00007
	(!B * C * Y)	0.00026	0.00026	0.00026
	(!B * C * Y)	0.00001	0.00001	0.00001
	(!B * C * Y)	-0.00002	-0.00002	-0.00002
	(!B * C * Y)	-0.00007	-0.00007	-0.00007

NAND4BX0P7H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND4B cell provides a logical NAND of one inverted input (AN) and three non-inverted inputs (B, C, D). The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
AN	B	C	D	Y
x	0	x	x	1
x	1	0	x	1
x	1	1	0	1
0	1	1	1	0
1	1	1	1	1

Footprint

Cell Name	Area
NAND4BX0P7H7H	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	AN	B	C	D	Y
NAND4BX0P7H7H	0.00099	0.00085	0.00087	0.00098	0.01407

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND4BX0P7H7H	0.00000	0.01181	0.03041

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4BX0P7H7H	AN->Y (RR)	0.05799	0.15145	0.36137
	B->Y (FR)	0.03341	0.14536	0.50642
	C->Y (FR)	0.03151	0.14167	0.50251
	D->Y (FR)	0.02966	0.13791	0.49892

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4BX0P7H7H	AN->Y (FF)	0.11319	0.27937	0.68583
	B->Y (RF)	0.07727	0.24762	0.72385
	C->Y (RF)	0.07319	0.24687	0.74499
	D->Y (RF)	0.06731	0.23563	0.72875

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4BX0P7H7H	AN	0.00122	0.00126	0.00130
	AN	-0.00011	-0.00011	-0.00010
	AN	0.00012	0.00012	0.00012
	AN	0.00109	0.00113	0.00117
	B	0.00117	0.00120	0.00122
	B	-0.00013	-0.00013	-0.00013
	B	0.00010	0.00011	0.00011
	B	-0.00005	-0.00003	-0.00001
	C	0.00102	0.00105	0.00107
	C	-0.00013	-0.00013	-0.00012
	C	0.00006	0.00007	0.00010
	C	-0.00005	-0.00001	0.00001
	D	0.00090	0.00094	0.00098
	D	-0.00013	-0.00013	-0.00012
	D	0.00000	0.00002	0.00003
	D	-0.00007	-0.00003	0.00003

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4BX0P7H7H	AN	0.00102	0.00105	0.00110
	AN	0.00010	0.00011	0.00011
	AN	-0.00012	-0.00012	-0.00012
	AN	0.00124	0.00128	0.00132
	B	-0.00007	-0.00004	-0.00002
	B	0.00013	0.00013	0.00013
	B	-0.00011	-0.00011	-0.00010
	B	0.00123	0.00126	0.00128
	C	-0.00004	-0.00001	0.00001
	C	0.00013	0.00013	0.00013
	C	-0.00008	-0.00007	-0.00006
	C	0.00106	0.00108	0.00111
	D	-0.00006	-0.00002	0.00001
	D	0.00013	0.00013	0.00013
	D	-0.00003	-0.00002	0.00000
	D	0.00090	0.00095	0.00099

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX0P7H7H	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00002	0.00004	0.00008
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00003	0.00003	0.00003
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	-0.00004	-0.00004	-0.00003
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00085	0.00087	0.00092
	(B * !C * !D * Y)	0.00002	0.00004	0.00007
	(B * !C * !D * Y)	0.00003	0.00003	0.00003
	(B * !C * !D * Y)	-0.00004	-0.00004	-0.00003
	(B * !C * !D * Y)	0.00084	0.00087	0.00091
	(!B * !D * Y)	0.00002	0.00004	0.00007
	(!B * !D * Y)	0.00003	0.00003	0.00003
	(!B * !D * Y)	-0.00004	-0.00004	-0.00003
	(!B * !D * Y)	0.00083	0.00086	0.00089
	(!B * !C * D * Y)	0.00002	0.00004	0.00007
	(!B * !C * D * Y)	0.00003	0.00003	0.00003
	(!B * !C * D * Y)	-0.00004	-0.00004	-0.00003
	(!B * !C * D * Y)	0.00083	0.00086	0.00089

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX0P7H7H	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00084	0.00086	0.00089
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	-0.00003	-0.00003	-0.00003
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00003	0.00004	0.00004
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00001	0.00003	0.00007
	(B * !C * !D * Y)	0.00083	0.00086	0.00089
	(B * !C * !D * Y)	-0.00003	-0.00003	-0.00003
	(B * !C * !D * Y)	0.00003	0.00004	0.00005
	(B * !C * !D * Y)	0.00001	0.00004	0.00006
	(!B * !D * Y)	0.00083	0.00085	0.00088
	(!B * !D * Y)	-0.00003	-0.00003	-0.00003
	(!B * !D * Y)	0.00003	0.00004	0.00004
	(!B * !D * Y)	0.00002	0.00004	0.00007
	(!B * !C * D * Y)	0.00083	0.00085	0.00089
	(!B * !C * D * Y)	-0.00003	-0.00003	-0.00003
	(!B * !C * D * Y)	0.00003	0.00004	0.00004
	(!B * !C * D * Y)	0.00002	0.00004	0.00008

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX0P7H7H	(AN * C * D * Y)	-0.00015	-0.00015	-0.00015
	(AN * C * D * Y)	-0.00001	-0.00001	-0.00001
	(AN * C * D * Y)	0.00005	0.00005	0.00005
	(AN * C * D * Y)	0.00012	0.00013	0.00013
	(AN * C * !D * Y)	-0.00015	-0.00015	-0.00015
	(AN * C * !D * Y)	-0.00001	-0.00001	-0.00001
	(AN * C * !D * Y)	0.00005	0.00005	0.00005
	(AN * C * !D * Y)	0.00012	0.00012	0.00012
	(AN * !C * D * Y)	-0.00015	-0.00015	-0.00015
	(AN * !C * D * Y)	-0.00001	-0.00001	-0.00001
	(AN * !C * D * Y)	0.00005	0.00006	0.00006
	(AN * !C * D * Y)	0.00012	0.00013	0.00013
	(AN * !C * !D * Y)	-0.00015	-0.00015	-0.00015
	(AN * !C * !D * Y)	-0.00001	-0.00001	-0.00001
	(AN * !C * !D * Y)	0.00006	0.00006	0.00006
	(AN * !C * !D * Y)	0.00012	0.00013	0.00013
	(!AN * C * !D * Y)	-0.00018	-0.00018	-0.00018
	(!AN * C * !D * Y)	-0.00001	-0.00001	-0.00001
	(!AN * C * !D * Y)	0.00002	0.00002	0.00002
	(!AN * C * !D * Y)	0.00020	0.00020	0.00020
	(!AN * !C * D * Y)	-0.00018	-0.00018	-0.00018
	(!AN * !C * D * Y)	-0.00001	-0.00001	-0.00001
	(!AN * !C * D * Y)	0.00001	0.00002	0.00002
	(!AN * !C * D * Y)	0.00021	0.00021	0.00021
	(!AN * !C * !D * Y)	-0.00018	-0.00018	-0.00018
	(!AN * !C * !D * Y)	-0.00001	-0.00001	-0.00001
	(!AN * !C * !D * Y)	0.00001	0.00002	0.00002
	(!AN * !C * !D * Y)	0.00020	0.00021	0.00021

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX0P7H7H	(AN * C * D * Y)	0.00015	0.00015	0.00015
	(AN * C * D * Y)	0.00001	0.00001	0.00001
	(AN * C * D * Y)	-0.00005	-0.00005	-0.00005
	(AN * C * D * Y)	-0.00012	-0.00012	-0.00012
	(AN * C * !D * Y)	0.00015	0.00015	0.00015
	(AN * C * !D * Y)	0.00001	0.00001	0.00001
	(AN * C * !D * Y)	-0.00005	-0.00005	-0.00005
	(AN * C * !D * Y)	-0.00012	-0.00012	-0.00012
	(AN * !C * D * Y)	0.00015	0.00015	0.00015
	(AN * !C * D * Y)	0.00001	0.00001	0.00001
	(AN * !C * D * Y)	-0.00006	-0.00006	-0.00005
	(AN * !C * D * Y)	-0.00013	-0.00013	-0.00012
	(AN * !C * !D * Y)	0.00015	0.00015	0.00015
	(AN * !C * !D * Y)	0.00001	0.00001	0.00001
	(AN * !C * !D * Y)	-0.00006	-0.00006	-0.00006
	(AN * !C * !D * Y)	-0.00013	-0.00013	-0.00012
	(!AN * C * !D * Y)	0.00018	0.00018	0.00018
	(!AN * C * !D * Y)	0.00001	0.00001	0.00001
	(!AN * C * !D * Y)	-0.00002	-0.00002	-0.00002
	(!AN * C * !D * Y)	-0.00020	-0.00019	-0.00016
	(!AN * !C * D * Y)	0.00018	0.00018	0.00018
	(!AN * !C * D * Y)	0.00001	0.00001	0.00001
	(!AN * !C * D * Y)	-0.00002	-0.00002	-0.00001
	(!AN * !C * D * Y)	-0.00021	-0.00020	-0.00017
	(!AN * !C * !D * Y)	0.00018	0.00018	0.00018
	(!AN * !C * !D * Y)	0.00001	0.00001	0.00001
	(!AN * !C * !D * Y)	-0.00002	-0.00002	-0.00001
	(!AN * !C * !D * Y)	-0.00021	-0.00020	-0.00018

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX0P7H7H	(AN * B * D * Y)	-0.00017	-0.00017	-0.00017
	(AN * B * D * Y)	-0.00001	-0.00001	-0.00001
	(AN * B * D * Y)	0.00004	0.00004	0.00005
	(AN * B * D * Y)	0.00007	0.00007	0.00008
	(AN * B * !D * Y)	-0.00017	-0.00017	-0.00017
	(AN * B * !D * Y)	-0.00001	-0.00001	-0.00001
	(AN * B * !D * Y)	0.00005	0.00005	0.00005
	(AN * B * !D * Y)	0.00007	0.00007	0.00007
	(!B * D * Y)	-0.00017	-0.00017	-0.00017
	(!B * D * Y)	-0.00001	-0.00001	-0.00001
	(!B * D * Y)	0.00004	0.00005	0.00005
	(!B * D * Y)	0.00006	0.00006	0.00006
	(!B * !D * Y)	-0.00017	-0.00017	-0.00017
	(!B * !D * Y)	-0.00001	-0.00001	-0.00001
	(!B * !D * Y)	0.00005	0.00005	0.00005
	(!B * !D * Y)	0.00006	0.00006	0.00006
	(!AN * B * !D * Y)	-0.00017	-0.00017	-0.00017
	(!AN * B * !D * Y)	-0.00001	-0.00001	-0.00001
	(!AN * B * !D * Y)	0.00001	0.00001	0.00001
	(!AN * B * !D * Y)	0.00019	0.00019	0.00020

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX0P7H7H	(AN * B * D * Y)	0.00017	0.00017	0.00017
	(AN * B * D * Y)	0.00001	0.00001	0.00001
	(AN * B * D * Y)	-0.00005	-0.00004	-0.00004
	(AN * B * D * Y)	-0.00007	-0.00007	-0.00006
	(AN * B * !D * Y)	0.00017	0.00017	0.00017
	(AN * B * !D * Y)	0.00001	0.00001	0.00001
	(AN * B * !D * Y)	-0.00005	-0.00005	-0.00005
	(AN * B * !D * Y)	-0.00007	-0.00007	-0.00007
	(!B * D * Y)	0.00017	0.00017	0.00017
	(!B * D * Y)	0.00001	0.00001	0.00001
	(!B * D * Y)	-0.00004	-0.00004	-0.00004
	(!B * D * Y)	-0.00006	-0.00006	-0.00006
	(!B * !D * Y)	0.00017	0.00017	0.00017
	(!B * !D * Y)	0.00001	0.00001	0.00001
	(!B * !D * Y)	-0.00005	-0.00005	-0.00005
	(!B * !D * Y)	-0.00006	-0.00006	-0.00006
	(!AN * B * !D * Y)	0.00017	0.00018	0.00019
	(!AN * B * !D * Y)	0.00001	0.00001	0.00001
	(!AN * B * !D * Y)	-0.00001	-0.00001	-0.00000
	(!AN * B * !D * Y)	-0.00020	-0.00018	-0.00017

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX0P7H7H	(AN * B * C * Y)	-0.00028	-0.00028	-0.00028
	(AN * B * C * Y)	-0.00001	-0.00001	-0.00001
	(AN * B * C * Y)	0.00002	0.00003	0.00003
	(AN * B * C * Y)	0.00008	0.00008	0.00008
	(!C * Y)	-0.00028	-0.00028	-0.00028
	(!C * Y)	-0.00001	-0.00001	-0.00001
	(!C * Y)	0.00003	0.00003	0.00004
	(!C * Y)	0.00007	0.00007	0.00007
	(!B * C * Y)	-0.00028	-0.00028	-0.00028
	(!B * C * Y)	-0.00001	-0.00001	-0.00001
	(!B * C * Y)	0.00003	0.00003	0.00003
	(!B * C * Y)	0.00007	0.00007	0.00007

Passive power(pJ) for D falling (conditional):

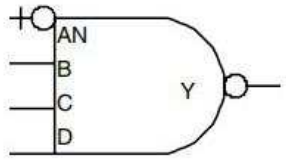
Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX0P7H7H	(AN * B * C * Y)	0.00028	0.00028	0.00028
	(AN * B * C * Y)	0.00001	0.00001	0.00001
	(AN * B * C * Y)	-0.00003	-0.00003	-0.00002
	(AN * B * C * Y)	-0.00008	-0.00007	-0.00007
	(!C * Y)	0.00028	0.00028	0.00028
	(!C * Y)	0.00001	0.00001	0.00001
	(!C * Y)	-0.00003	-0.00003	-0.00002
	(!C * Y)	-0.00007	-0.00007	-0.00007
	(!B * C * Y)	0.00028	0.00028	0.00028
	(!B * C * Y)	0.00001	0.00001	0.00001
	(!B * C * Y)	-0.00003	-0.00003	-0.00003
	(!B * C * Y)	-0.00007	-0.00007	-0.00007

NAND4BX1H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND4B cell provides a logical NAND of one inverted input (AN) and three non-inverted inputs (B, C, D). The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
AN	B	C	D	Y
x	0	x	x	1
x	1	0	x	1
x	1	1	0	1
0	1	1	1	0
1	1	1	1	1

Footprint

Cell Name	Area
NAND4BX1H7H	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	AN	B	C	D	Y
NAND4BX1H7H	0.00098	0.00090	0.00091	0.00104	0.01612

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND4BX1H7H	0.00000	0.01303	0.02815

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4BX1H7H	AN->Y (RR)	0.05564	0.14857	0.35686
	B->Y (FR)	0.03031	0.13990	0.49729
	C->Y (FR)	0.02825	0.13601	0.49310
	D->Y (FR)	0.02641	0.13220	0.48964

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4BX1H7H	AN->Y (FF)	0.11051	0.27908	0.69170
	B->Y (RF)	0.07336	0.24550	0.72858
	C->Y (RF)	0.06810	0.24308	0.74624
	D->Y (RF)	0.06163	0.23047	0.72520

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4BX1H7H	AN	0.00134	0.00138	0.00143
	AN	-0.00014	-0.00014	-0.00012
	AN	0.00015	0.00015	0.00015
	AN	0.00111	0.00115	0.00120
	B	0.00127	0.00130	0.00133
	B	-0.00016	-0.00016	-0.00015
	B	0.00012	0.00013	0.00013
	B	-0.00009	-0.00006	-0.00004
	C	0.00108	0.00112	0.00115
	C	-0.00016	-0.00016	-0.00015
	C	0.00008	0.00008	0.00009
	C	-0.00010	-0.00006	-0.00004
	D	0.00095	0.00100	0.00104
	D	-0.00016	-0.00015	-0.00015
	D	0.00000	0.00003	0.00003
	D	-0.00011	-0.00005	0.00071

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4BX1H7H	AN	0.00106	0.00110	0.00115
	AN	0.00013	0.00014	0.00014
	AN	-0.00015	-0.00015	-0.00015
	AN	0.00140	0.00144	0.00149
	B	-0.00008	-0.00005	-0.00003
	B	0.00015	0.00016	0.00017
	B	-0.00013	-0.00013	-0.00012
	B	0.00137	0.00140	0.00143
	C	-0.00004	-0.00001	0.00001
	C	0.00015	0.00016	0.00017
	C	-0.00009	-0.00008	-0.00008
	C	0.00118	0.00121	0.00123
	D	-0.00007	-0.00003	0.00001
	D	0.00015	0.00016	0.00016
	D	-0.00003	-0.00003	0.00000
	D	0.00100	0.00104	0.00108

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX1H7H	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00005	0.00007	0.00011
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00003	0.00003	0.00003
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	-0.00005	-0.00004	-0.00004
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00089	0.00092	0.00096
	(B * !C * !D * Y)	0.00005	0.00007	0.00011
	(B * !C * !D * Y)	0.00003	0.00003	0.00003
	(B * !C * !D * Y)	-0.00004	-0.00004	-0.00004
	(B * !C * !D * Y)	0.00089	0.00091	0.00095
	(!B * !D * Y)	0.00005	0.00007	0.00010
	(!B * !D * Y)	0.00003	0.00003	0.00003
	(!B * !D * Y)	-0.00004	-0.00004	-0.00004
	(!B * !D * Y)	0.00087	0.00090	0.00093
	(!B * !C * D * Y)	0.00005	0.00007	0.00010
	(!B * !C * D * Y)	0.00003	0.00003	0.00003
	(!B * !C * D * Y)	-0.00004	-0.00004	-0.00004
	(!B * !C * D * Y)	0.00087	0.00090	0.00093

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX1H7H	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00085	0.00087	0.00091
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	-0.00003	-0.00003	-0.00003
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00004	0.00004	0.00005
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00001	0.00003	0.00007
	(B * !C * !D * Y)	0.00085	0.00087	0.00091
	(B * !C * !D * Y)	-0.00003	-0.00003	-0.00003
	(B * !C * !D * Y)	0.00004	0.00004	0.00004
	(B * !C * !D * Y)	0.00001	0.00004	0.00007
	(!B * !D * Y)	0.00084	0.00087	0.00089
	(!B * !D * Y)	-0.00003	-0.00003	-0.00003
	(!B * !D * Y)	0.00004	0.00004	0.00004
	(!B * !D * Y)	0.00002	0.00004	0.00007
	(!B * !C * D * Y)	0.00084	0.00087	0.00090
	(!B * !C * D * Y)	-0.00003	-0.00003	-0.00003
	(!B * !C * D * Y)	0.00004	0.00004	0.00004
	(!B * !C * D * Y)	0.00002	0.00004	0.00007

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX1H7H	(AN * C * D * Y)	-0.00019	-0.00018	-0.00018
	(AN * C * D * Y)	-0.00001	-0.00001	-0.00001
	(AN * C * D * Y)	0.00005	0.00005	0.00005
	(AN * C * D * Y)	0.00012	0.00013	0.00013
	(AN * C * !D * Y)	-0.00019	-0.00019	-0.00018
	(AN * C * !D * Y)	-0.00001	-0.00001	-0.00001
	(AN * C * !D * Y)	0.00006	0.00006	0.00006
	(AN * C * !D * Y)	0.00012	0.00012	0.00012
	(AN * !C * D * Y)	-0.00019	-0.00018	-0.00018
	(AN * !C * D * Y)	-0.00001	-0.00001	-0.00001
	(AN * !C * D * Y)	0.00006	0.00006	0.00006
	(AN * !C * D * Y)	0.00012	0.00013	0.00013
	(AN * !C * !D * Y)	-0.00019	-0.00018	-0.00016
	(AN * !C * !D * Y)	-0.00001	-0.00001	-0.00001
	(AN * !C * !D * Y)	0.00006	0.00006	0.00006
	(AN * !C * !D * Y)	0.00012	0.00013	0.00013
	(!AN * C * !D * Y)	-0.00022	-0.00022	-0.00022
	(!AN * C * !D * Y)	-0.00001	-0.00001	-0.00001
	(!AN * C * !D * Y)	0.00001	0.00002	0.00002
	(!AN * C * !D * Y)	0.00020	0.00020	0.00020
	(!AN * !C * D * Y)	-0.00022	-0.00022	-0.00022
	(!AN * !C * D * Y)	-0.00001	-0.00001	-0.00001
	(!AN * !C * D * Y)	0.00002	0.00002	0.00002
	(!AN * !C * D * Y)	0.00021	0.00021	0.00021
	(!AN * !C * !D * Y)	-0.00022	-0.00022	-0.00022
	(!AN * !C * !D * Y)	-0.00001	-0.00001	-0.00001
	(!AN * !C * !D * Y)	0.00002	0.00002	0.00002
	(!AN * !C * !D * Y)	0.00020	0.00020	0.00021

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX1H7H	(AN * C * D * Y)	0.00018	0.00019	0.00019
	(AN * C * D * Y)	0.00001	0.00001	0.00001
	(AN * C * D * Y)	-0.00005	-0.00005	-0.00005
	(AN * C * D * Y)	-0.00013	-0.00013	-0.00012
	(AN * C * !D * Y)	0.00018	0.00019	0.00019
	(AN * C * !D * Y)	0.00001	0.00001	0.00001
	(AN * C * !D * Y)	-0.00006	-0.00006	-0.00006
	(AN * C * !D * Y)	-0.00012	-0.00012	-0.00012
	(AN * !C * D * Y)	0.00018	0.00019	0.00019
	(AN * !C * D * Y)	0.00001	0.00001	0.00001
	(AN * !C * D * Y)	-0.00006	-0.00006	-0.00006
	(AN * !C * D * Y)	-0.00013	-0.00013	-0.00012
	(AN * !C * !D * Y)	0.00018	0.00019	0.00019
	(AN * !C * !D * Y)	0.00001	0.00001	0.00001
	(AN * !C * !D * Y)	-0.00006	-0.00006	-0.00006
	(AN * !C * !D * Y)	-0.00013	-0.00013	-0.00012
	(!AN * C * !D * Y)	0.00022	0.00022	0.00022
	(!AN * C * !D * Y)	0.00001	0.00001	0.00001
	(!AN * C * !D * Y)	-0.00002	-0.00002	-0.00001
	(!AN * C * !D * Y)	-0.00020	-0.00018	-0.00016
	(!AN * !C * D * Y)	0.00022	0.00022	0.00022
	(!AN * !C * D * Y)	0.00001	0.00001	0.00001
	(!AN * !C * D * Y)	-0.00002	-0.00002	-0.00002
	(!AN * !C * D * Y)	-0.00021	-0.00020	-0.00018
	(!AN * !C * !D * Y)	0.00022	0.00022	0.00023
	(!AN * !C * !D * Y)	0.00001	0.00001	0.00001
	(!AN * !C * !D * Y)	-0.00002	-0.00002	-0.00002
	(!AN * !C * !D * Y)	-0.00021	-0.00020	-0.00018

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX1H7H	(AN * B * D * Y)	-0.00018	-0.00018	-0.00018
	(AN * B * D * Y)	-0.00001	-0.00001	-0.00001
	(AN * B * D * Y)	0.00005	0.00006	0.00007
	(AN * B * D * Y)	0.00007	0.00007	0.00007
	(AN * B * !D * Y)	-0.00018	-0.00018	-0.00018
	(AN * B * !D * Y)	-0.00001	-0.00001	-0.00001
	(AN * B * !D * Y)	0.00006	0.00006	0.00006
	(AN * B * !D * Y)	0.00007	0.00007	0.00007
	(!B * D * Y)	-0.00018	-0.00018	-0.00018
	(!B * D * Y)	-0.00001	-0.00001	-0.00001
	(!B * D * Y)	0.00005	0.00005	0.00006
	(!B * D * Y)	0.00006	0.00006	0.00007
	(!B * !D * Y)	-0.00019	-0.00018	-0.00018
	(!B * !D * Y)	-0.00001	0.00002	0.00018
	(!B * !D * Y)	0.00006	0.00006	0.00006
	(!B * !D * Y)	0.00006	0.00006	0.00008
	(!AN * B * !D * Y)	-0.00018	-0.00018	-0.00018
	(!AN * B * !D * Y)	-0.00001	-0.00001	-0.00001
	(!AN * B * !D * Y)	0.00001	0.00002	0.00002
	(!AN * B * !D * Y)	0.00021	0.00021	0.00022

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX1H7H	(AN * B * D * Y)	0.00018	0.00018	0.00019
	(AN * B * D * Y)	0.00001	0.00001	0.00001
	(AN * B * D * Y)	-0.00006	-0.00005	-0.00005
	(AN * B * D * Y)	-0.00007	-0.00007	-0.00006
	(AN * B * !D * Y)	0.00018	0.00019	0.00019
	(AN * B * !D * Y)	0.00001	0.00001	0.00001
	(AN * B * !D * Y)	-0.00006	-0.00006	-0.00006
	(AN * B * !D * Y)	-0.00007	-0.00007	-0.00007
	(!B * D * Y)	0.00018	0.00018	0.00019
	(!B * D * Y)	0.00001	0.00001	0.00001
	(!B * D * Y)	-0.00005	-0.00005	-0.00005
	(!B * D * Y)	-0.00006	-0.00006	-0.00006
	(!B * !D * Y)	0.00019	0.00019	0.00019
	(!B * !D * Y)	0.00001	0.00001	0.00001
	(!B * !D * Y)	-0.00006	-0.00006	-0.00006
	(!B * !D * Y)	-0.00006	-0.00006	-0.00006
	(!AN * B * !D * Y)	0.00018	0.00019	0.00020
	(!AN * B * !D * Y)	0.00001	0.00001	0.00002
	(!AN * B * !D * Y)	-0.00002	-0.00002	-0.00001
	(!AN * B * !D * Y)	-0.00022	-0.00020	-0.00018

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX1H7H	(AN * B * C * Y)	-0.00031	-0.00030	-0.00030
	(AN * B * C * Y)	-0.00001	-0.00001	-0.00001
	(AN * B * C * Y)	0.00003	0.00003	0.00003
	(AN * B * C * Y)	0.00007	0.00007	0.00007
	(!C * Y)	-0.00031	-0.00031	-0.00030
	(!C * Y)	-0.00001	-0.00001	-0.00001
	(!C * Y)	0.00003	0.00003	0.00004
	(!C * Y)	0.00006	0.00006	0.00007
	(!B * C * Y)	-0.00031	-0.00031	-0.00030
	(!B * C * Y)	-0.00001	-0.00001	-0.00001
	(!B * C * Y)	0.00003	0.00003	0.00003
	(!B * C * Y)	0.00006	0.00007	0.00007

Passive power(pJ) for D falling (conditional):

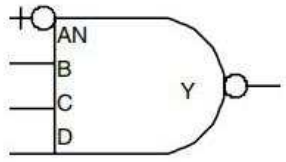
Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX1H7H	(AN * B * C * Y)	0.00031	0.00031	0.00031
	(AN * B * C * Y)	0.00001	0.00001	0.00001
	(AN * B * C * Y)	-0.00003	-0.00003	-0.00003
	(AN * B * C * Y)	-0.00007	-0.00007	-0.00007
	(!C * Y)	0.00030	0.00031	0.00031
	(!C * Y)	0.00001	0.00001	0.00001
	(!C * Y)	-0.00004	-0.00003	-0.00003
	(!C * Y)	-0.00007	-0.00006	-0.00006
	(!B * C * Y)	0.00030	0.00031	0.00031
	(!B * C * Y)	0.00001	0.00001	0.00001
	(!B * C * Y)	-0.00003	-0.00003	-0.00003
	(!B * C * Y)	-0.00007	-0.00006	-0.00006

NAND4BX1P4H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND4B cell provides a logical NAND of one inverted input (AN) and three non-inverted inputs (B, C, D). The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
AN	B	C	D	Y
x	0	x	x	1
x	1	0	x	1
x	1	1	0	1
0	1	1	1	0
1	1	1	1	1

Footprint

Cell Name	Area
NAND4BX1P4H7H	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	AN	B	C	D	Y
NAND4BX1P4H7H	0.00099	0.00098	0.00099	0.00112	0.01821

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND4BX1P4H7H	0.00000	0.01465	0.02775

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4BX1P4H7H	AN->Y (RR)	0.05500	0.14860	0.35862
	B->Y (FR)	0.02864	0.13803	0.49646
	C->Y (FR)	0.02675	0.13425	0.49242
	D->Y (FR)	0.02482	0.13036	0.48945

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4BX1P4H7H	AN->Y (FF)	0.10897	0.27926	0.69646
	B->Y (RF)	0.06990	0.24320	0.73085
	C->Y (RF)	0.06483	0.24067	0.74773
	D->Y (RF)	0.05800	0.22715	0.72397

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4BX1P4H7H	AN	0.00148	0.00153	0.00158
	AN	-0.00016	-0.00016	-0.00016
	AN	0.00017	0.00017	0.00017
	AN	0.00115	0.00120	0.00124
	B	0.00136	0.00141	0.00144
	B	-0.00018	-0.00018	-0.00018
	B	0.00014	0.00015	0.00017
	B	-0.00010	-0.00007	-0.00004
	C	0.00117	0.00122	0.00125
	C	-0.00018	-0.00018	-0.00018
	C	0.00009	0.00009	0.00009
	C	-0.00010	-0.00006	-0.00003
	D	0.00103	0.00108	0.00112
	D	-0.00018	-0.00018	-0.00018
	D	0.00000	0.00003	0.00004
	D	-0.00013	-0.00005	0.00076

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4BX1P4H7H	AN	0.00109	0.00114	0.00119
	AN	0.00016	0.00016	0.00017
	AN	-0.00017	-0.00017	-0.00017
	AN	0.00155	0.00160	0.00165
	B	-0.00008	-0.00005	-0.00002
	B	0.00018	0.00018	0.00019
	B	-0.00017	-0.00015	-0.00014
	B	0.00150	0.00153	0.00155
	C	-0.00004	-0.00001	0.00001
	C	0.00018	0.00018	0.00019
	C	-0.00009	-0.00009	-0.00009
	C	0.00128	0.00131	0.00133
	D	-0.00007	-0.00003	0.00001
	D	0.00018	0.00018	0.00018
	D	-0.00003	-0.00003	0.00000
	D	0.00108	0.00112	0.00117

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX1P4H7H	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00007	0.00010	0.00013
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00003	0.00003	0.00003
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	-0.00005	-0.00004	-0.00004
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00091	0.00094	0.00099
	(B * !C * !D * Y)	0.00007	0.00010	0.00012
	(B * !C * !D * Y)	0.00003	0.00003	0.00003
	(B * !C * !D * Y)	-0.00005	-0.00004	-0.00004
	(B * !C * !D * Y)	0.00091	0.00094	0.00097
	(!B * !D * Y)	0.00007	0.00010	0.00013
	(!B * !D * Y)	0.00003	0.00003	0.00003
	(!B * !D * Y)	-0.00005	-0.00004	-0.00004
	(!B * !D * Y)	0.00090	0.00092	0.00096
	(!B * !C * D * Y)	0.00007	0.00010	0.00013
	(!B * !C * D * Y)	0.00003	0.00003	0.00003
	(!B * !C * D * Y)	-0.00005	-0.00005	-0.00004
	(!B * !C * D * Y)	0.00090	0.00092	0.00096

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX1P4H7H	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00086	0.00089	0.00092
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	-0.00003	-0.00003	-0.00003
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00004	0.00004	0.00005
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00002	0.00005	0.00008
	(B * !C * !D * Y)	0.00086	0.00088	0.00092
	(B * !C * !D * Y)	-0.00003	-0.00003	-0.00003
	(B * !C * !D * Y)	0.00004	0.00004	0.00005
	(B * !C * !D * Y)	0.00002	0.00005	0.00009
	(!B * !D * Y)	0.00085	0.00088	0.00091
	(!B * !D * Y)	-0.00003	-0.00003	-0.00003
	(!B * !D * Y)	0.00004	0.00004	0.00005
	(!B * !D * Y)	0.00003	0.00006	0.00008
	(!B * !C * D * Y)	0.00085	0.00088	0.00091
	(!B * !C * D * Y)	-0.00003	-0.00003	-0.00003
	(!B * !C * D * Y)	0.00004	0.00005	0.00005
	(!B * !C * D * Y)	0.00003	0.00006	0.00008

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX1P4H7H	(AN * C * D * Y)	-0.00020	-0.00020	-0.00020
	(AN * C * D * Y)	-0.00001	-0.00001	-0.00001
	(AN * C * D * Y)	0.00006	0.00006	0.00006
	(AN * C * D * Y)	0.00012	0.00012	0.00012
	(AN * C * !D * Y)	-0.00020	-0.00020	-0.00020
	(AN * C * !D * Y)	-0.00001	-0.00001	-0.00001
	(AN * C * !D * Y)	0.00007	0.00007	0.00007
	(AN * C * !D * Y)	0.00012	0.00012	0.00012
	(AN * !C * D * Y)	-0.00020	-0.00020	-0.00020
	(AN * !C * D * Y)	-0.00001	-0.00001	-0.00001
	(AN * !C * D * Y)	0.00007	0.00007	0.00007
	(AN * !C * D * Y)	0.00012	0.00012	0.00012
	(AN * !C * !D * Y)	-0.00020	-0.00020	-0.00020
	(AN * !C * !D * Y)	-0.00001	-0.00001	-0.00001
	(AN * !C * !D * Y)	0.00007	0.00007	0.00007
	(AN * !C * !D * Y)	0.00012	0.00012	0.00012
	(!AN * C * !D * Y)	-0.00024	-0.00023	-0.00023
	(!AN * C * !D * Y)	-0.00001	-0.00001	-0.00001
	(!AN * C * !D * Y)	0.00002	0.00002	0.00003
	(!AN * C * !D * Y)	0.00021	0.00021	0.00021
	(!AN * !C * D * Y)	-0.00024	-0.00023	-0.00023
	(!AN * !C * D * Y)	-0.00001	-0.00001	-0.00001
	(!AN * !C * D * Y)	0.00002	0.00002	0.00002
	(!AN * !C * D * Y)	0.00022	0.00022	0.00022
	(!AN * !C * !D * Y)	-0.00024	-0.00023	-0.00023
	(!AN * !C * !D * Y)	-0.00001	-0.00001	-0.00001
	(!AN * !C * !D * Y)	0.00002	0.00002	0.00002
	(!AN * !C * !D * Y)	0.00022	0.00022	0.00022

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX1P4H7H	(AN * C * D * Y)	0.00020	0.00020	0.00020
	(AN * C * D * Y)	0.00001	0.00001	0.00001
	(AN * C * D * Y)	-0.00006	-0.00006	-0.00006
	(AN * C * D * Y)	-0.00012	-0.00012	-0.00012
	(AN * C * !D * Y)	0.00020	0.00020	0.00020
	(AN * C * !D * Y)	0.00001	0.00001	0.00001
	(AN * C * !D * Y)	-0.00007	-0.00007	-0.00007
	(AN * C * !D * Y)	-0.00012	-0.00012	-0.00012
	(AN * !C * D * Y)	0.00020	0.00020	0.00020
	(AN * !C * D * Y)	0.00001	0.00001	0.00001
	(AN * !C * D * Y)	-0.00007	-0.00007	-0.00007
	(AN * !C * D * Y)	-0.00012	-0.00012	-0.00012
	(AN * !C * !D * Y)	0.00020	0.00020	0.00020
	(AN * !C * !D * Y)	0.00001	0.00001	0.00001
	(AN * !C * !D * Y)	-0.00007	-0.00007	-0.00007
	(AN * !C * !D * Y)	-0.00012	-0.00012	-0.00012
	(!AN * C * !D * Y)	0.00023	0.00023	0.00024
	(!AN * C * !D * Y)	0.00001	0.00001	0.00001
	(!AN * C * !D * Y)	-0.00003	-0.00002	-0.00002
	(!AN * C * !D * Y)	-0.00021	-0.00019	-0.00016
	(!AN * !C * D * Y)	0.00023	0.00023	0.00024
	(!AN * !C * D * Y)	0.00001	0.00001	0.00001
	(!AN * !C * D * Y)	-0.00002	-0.00002	-0.00002
	(!AN * !C * D * Y)	-0.00022	-0.00021	-0.00019
	(!AN * !C * !D * Y)	0.00023	0.00023	0.00024
	(!AN * !C * !D * Y)	0.00001	0.00001	0.00001
	(!AN * !C * !D * Y)	-0.00002	-0.00002	-0.00002
	(!AN * !C * !D * Y)	-0.00022	-0.00020	-0.00019

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX1P4H7H	(AN * B * D * Y)	-0.00021	-0.00021	-0.00020
	(AN * B * D * Y)	-0.00001	-0.00001	-0.00001
	(AN * B * D * Y)	0.00004	0.00006	0.00006
	(AN * B * D * Y)	0.00006	0.00007	0.00007
	(AN * B * !D * Y)	-0.00021	-0.00021	-0.00020
	(AN * B * !D * Y)	-0.00001	-0.00001	-0.00001
	(AN * B * !D * Y)	0.00007	0.00007	0.00007
	(AN * B * !D * Y)	0.00007	0.00007	0.00007
	(!B * D * Y)	-0.00021	-0.00021	-0.00020
	(!B * D * Y)	-0.00001	-0.00001	-0.00001
	(!B * D * Y)	0.00005	0.00006	0.00006
	(!B * D * Y)	0.00006	0.00006	0.00006
	(!B * !D * Y)	-0.00021	-0.00020	-0.00016
	(!B * !D * Y)	-0.00001	-0.00001	-0.00001
	(!B * !D * Y)	0.00007	0.00007	0.00007
	(!B * !D * Y)	0.00005	0.00006	0.00006
	(!AN * B * !D * Y)	-0.00021	-0.00020	-0.00020
	(!AN * B * !D * Y)	-0.00001	-0.00001	-0.00001
	(!AN * B * !D * Y)	0.00002	0.00002	0.00002
	(!AN * B * !D * Y)	0.00021	0.00021	0.00022

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX1P4H7H	(AN * B * D * Y)	0.00021	0.00021	0.00021
	(AN * B * D * Y)	0.00001	0.00001	0.00001
	(AN * B * D * Y)	-0.00006	-0.00006	-0.00004
	(AN * B * D * Y)	-0.00006	-0.00006	-0.00006
	(AN * B * !D * Y)	0.00021	0.00021	0.00021
	(AN * B * !D * Y)	0.00001	0.00001	0.00001
	(AN * B * !D * Y)	-0.00007	-0.00007	-0.00007
	(AN * B * !D * Y)	-0.00007	-0.00007	-0.00007
	(!B * D * Y)	0.00021	0.00021	0.00021
	(!B * D * Y)	0.00001	0.00001	0.00001
	(!B * D * Y)	-0.00006	-0.00006	-0.00005
	(!B * D * Y)	-0.00006	-0.00006	-0.00006
	(!B * !D * Y)	0.00021	0.00021	0.00021
	(!B * !D * Y)	0.00001	0.00001	0.00001
	(!B * !D * Y)	-0.00007	-0.00007	-0.00007
	(!B * !D * Y)	-0.00006	-0.00006	-0.00005
	(!AN * B * !D * Y)	0.00021	0.00021	0.00023
	(!AN * B * !D * Y)	0.00001	0.00001	0.00001
	(!AN * B * !D * Y)	-0.00002	-0.00002	-0.00002
	(!AN * B * !D * Y)	-0.00022	-0.00020	-0.00018

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX1P4H7H	(AN * B * C * Y)	-0.00033	-0.00033	-0.00033
	(AN * B * C * Y)	-0.00001	-0.00001	-0.00001
	(AN * B * C * Y)	0.00003	0.00003	0.00004
	(AN * B * C * Y)	0.00007	0.00007	0.00007
	(!C * Y)	-0.00033	-0.00033	-0.00033
	(!C * Y)	-0.00001	-0.00001	-0.00001
	(!C * Y)	0.00004	0.00004	0.00004
	(!C * Y)	0.00007	0.00007	0.00007
	(!B * C * Y)	-0.00033	-0.00033	-0.00033
	(!B * C * Y)	-0.00001	-0.00001	-0.00001
	(!B * C * Y)	0.00002	0.00003	0.00004
	(!B * C * Y)	0.00007	0.00007	0.00007

Passive power(pJ) for D falling (conditional):

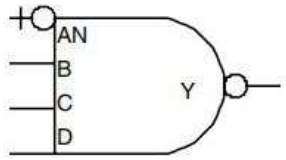
Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX1P4H7H	(AN * B * C * Y)	0.00033	0.00033	0.00033
	(AN * B * C * Y)	0.00001	0.00001	0.00001
	(AN * B * C * Y)	-0.00003	-0.00003	-0.00003
	(AN * B * C * Y)	-0.00007	-0.00007	-0.00007
	(!C * Y)	0.00033	0.00033	0.00033
	(!C * Y)	0.00001	0.00001	0.00001
	(!C * Y)	-0.00004	-0.00003	-0.00003
	(!C * Y)	-0.00007	-0.00007	-0.00007
	(!B * C * Y)	0.00033	0.00033	0.00033
	(!B * C * Y)	0.00001	0.00001	0.00001
	(!B * C * Y)	-0.00003	-0.00003	-0.00002
	(!B * C * Y)	-0.00007	-0.00007	-0.00007

NAND4BX2H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND4B cell provides a logical NAND of one inverted input (AN) and three non-inverted inputs (B, C, D). The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
AN	B	C	D	Y
x	0	x	x	1
x	1	0	x	1
x	1	1	0	1
0	1	1	1	0
1	1	1	1	1

Footprint

Cell Name	Area
NAND4BX2H7H	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	AN	B	C	D	Y
NAND4BX2H7H	0.00137	0.00111	0.00113	0.00125	0.02155

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND4BX2H7H	0.00000	0.02847	0.05702

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4BX2H7H	AN->Y (RR)	0.04759	0.13989	0.34631
	B->Y (FR)	0.02754	0.13845	0.50295
	C->Y (FR)	0.02575	0.13478	0.49907
	D->Y (FR)	0.02380	0.13084	0.49610

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4BX2H7H	AN->Y (FF)	0.09529	0.26314	0.67381
	B->Y (RF)	0.06628	0.24059	0.73285
	C->Y (RF)	0.06137	0.23795	0.74820
	D->Y (RF)	0.05432	0.22406	0.72348

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4BX2H7H	AN	0.00162	0.00167	0.00174
	AN	-0.00018	-0.00018	-0.00016
	AN	0.00019	0.00019	0.00020
	AN	0.00145	0.00151	0.00157
	B	0.00160	0.00163	0.00167
	B	-0.00022	-0.00022	-0.00019
	B	0.00017	0.00017	0.00018
	B	-0.00011	-0.00008	-0.00005
	C	0.00136	0.00140	0.00144
	C	-0.00022	-0.00022	-0.00022
	C	0.00011	0.00011	0.00011
	C	-0.00012	-0.00007	-0.00004
	D	0.00118	0.00123	0.00129
	D	-0.00022	-0.00022	-0.00021
	D	0.00004	0.00004	0.00005
	D	-0.00014	-0.00008	-0.00003

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4BX2H7H	AN	0.00144	0.00149	0.00155
	AN	0.00017	0.00018	0.00019
	AN	-0.00020	-0.00019	-0.00019
	AN	0.00175	0.00181	0.00187
	B	-0.00012	-0.00009	-0.00006
	B	0.00022	0.00022	0.00022
	B	-0.00018	-0.00017	-0.00017
	B	0.00170	0.00174	0.00176
	C	-0.00007	-0.00003	-0.00000
	C	0.00022	0.00022	0.00022
	C	-0.00011	-0.00011	-0.00011
	C	0.00145	0.00149	0.00152
	D	-0.00010	-0.00005	-0.00000
	D	0.00021	0.00022	0.00023
	D	-0.00004	-0.00004	-0.00004
	D	0.00120	0.00127	0.00132

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX2H7H	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00001	0.00004	0.00009
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00006	0.00006	0.00006
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	-0.00007	-0.00007	-0.00006
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00120	0.00124	0.00131
	(B * !C * !D * Y)	0.00001	0.00004	0.00009
	(B * !C * !D * Y)	0.00006	0.00006	0.00006
	(B * !C * !D * Y)	-0.00008	-0.00007	-0.00006
	(B * !C * !D * Y)	0.00120	0.00124	0.00130
	(!B * !D * Y)	0.00001	0.00004	0.00009
	(!B * !D * Y)	0.00006	0.00006	0.00006
	(!B * !D * Y)	-0.00007	-0.00006	-0.00006
	(!B * !D * Y)	0.00118	0.00122	0.00127
	(!B * !C * D * Y)	0.00001	0.00004	0.00009
	(!B * !C * D * Y)	0.00006	0.00006	0.00006
	(!B * !C * D * Y)	-0.00007	-0.00007	-0.00006
	(!B * !C * D * Y)	0.00118	0.00122	0.00127

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX2H7H	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00119	0.00122	0.00127
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	-0.00006	-0.00006	-0.00006
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00006	0.00007	0.00007
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	-0.00000	0.00003	0.00008
	(B * !C * !D * Y)	0.00119	0.00122	0.00127
	(B * !C * !D * Y)	-0.00006	-0.00006	-0.00006
	(B * !C * !D * Y)	0.00006	0.00007	0.00008
	(B * !C * !D * Y)	0.00000	0.00003	0.00009
	(!B * !D * Y)	0.00118	0.00121	0.00126
	(!B * !D * Y)	-0.00006	-0.00006	-0.00006
	(!B * !D * Y)	0.00006	0.00006	0.00007
	(!B * !D * Y)	0.00001	0.00005	0.00008
	(!B * !C * D * Y)	0.00118	0.00121	0.00126
	(!B * !C * D * Y)	-0.00006	-0.00006	-0.00006
	(!B * !C * D * Y)	0.00006	0.00007	0.00007
	(!B * !C * D * Y)	0.00001	0.00004	0.00008

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX2H7H	(AN * C * D * Y)	-0.00023	-0.00023	-0.00023
	(AN * C * D * Y)	-0.00001	-0.00001	-0.00001
	(AN * C * D * Y)	0.00007	0.00007	0.00007
	(AN * C * D * Y)	0.00014	0.00014	0.00014
	(AN * C * !D * Y)	-0.00023	-0.00023	-0.00023
	(AN * C * !D * Y)	-0.00002	-0.00001	-0.00001
	(AN * C * !D * Y)	0.00008	0.00008	0.00008
	(AN * C * !D * Y)	0.00013	0.00014	0.00014
	(AN * !C * D * Y)	-0.00023	-0.00023	-0.00023
	(AN * !C * D * Y)	-0.00001	-0.00001	-0.00001
	(AN * !C * D * Y)	0.00008	0.00008	0.00008
	(AN * !C * D * Y)	0.00014	0.00014	0.00014
	(AN * !C * !D * Y)	-0.00023	-0.00023	-0.00023
	(AN * !C * !D * Y)	-0.00001	-0.00001	-0.00001
	(AN * !C * !D * Y)	0.00008	0.00008	0.00008
	(AN * !C * !D * Y)	0.00014	0.00014	0.00014
	(!AN * C * !D * Y)	-0.00029	-0.00029	-0.00028
	(!AN * C * !D * Y)	-0.00002	-0.00001	-0.00001
	(!AN * C * !D * Y)	0.00002	0.00003	0.00003
	(!AN * C * !D * Y)	0.00022	0.00023	0.00023
	(!AN * !C * D * Y)	-0.00029	-0.00029	-0.00029
	(!AN * !C * D * Y)	-0.00001	-0.00001	-0.00001
	(!AN * !C * D * Y)	0.00002	0.00002	0.00002
	(!AN * !C * D * Y)	0.00024	0.00024	0.00024
	(!AN * !C * !D * Y)	-0.00029	-0.00029	-0.00028
	(!AN * !C * !D * Y)	-0.00002	-0.00002	-0.00001
	(!AN * !C * !D * Y)	0.00002	0.00002	0.00002
	(!AN * !C * !D * Y)	0.00023	0.00023	0.00024

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX2H7H	(AN * C * D * Y)	0.00023	0.00023	0.00023
	(AN * C * D * Y)	0.00001	0.00002	0.00002
	(AN * C * D * Y)	-0.00007	-0.00007	-0.00007
	(AN * C * D * Y)	-0.00014	-0.00014	-0.00014
	(AN * C * !D * Y)	0.00023	0.00023	0.00023
	(AN * C * !D * Y)	0.00001	0.00002	0.00002
	(AN * C * !D * Y)	-0.00008	-0.00008	-0.00008
	(AN * C * !D * Y)	-0.00014	-0.00014	-0.00013
	(AN * !C * D * Y)	0.00023	0.00023	0.00023
	(AN * !C * D * Y)	0.00001	0.00002	0.00002
	(AN * !C * D * Y)	-0.00008	-0.00008	-0.00008
	(AN * !C * D * Y)	-0.00014	-0.00014	-0.00014
	(AN * !C * !D * Y)	0.00023	0.00023	0.00024
	(AN * !C * !D * Y)	0.00001	0.00002	0.00002
	(AN * !C * !D * Y)	-0.00008	-0.00008	-0.00008
	(AN * !C * !D * Y)	-0.00014	-0.00014	-0.00014
	(!AN * C * !D * Y)	0.00029	0.00029	0.00029
	(!AN * C * !D * Y)	0.00001	0.00002	0.00002
	(!AN * C * !D * Y)	-0.00003	-0.00003	-0.00002
	(!AN * C * !D * Y)	-0.00023	-0.00021	-0.00018
	(!AN * !C * D * Y)	0.00029	0.00029	0.00029
	(!AN * !C * D * Y)	0.00001	0.00002	0.00002
	(!AN * !C * D * Y)	-0.00002	-0.00002	-0.00002
	(!AN * !C * D * Y)	-0.00024	-0.00022	-0.00020
	(!AN * !C * !D * Y)	0.00029	0.00029	0.00029
	(!AN * !C * !D * Y)	0.00001	0.00002	0.00002
	(!AN * !C * !D * Y)	-0.00002	-0.00002	-0.00002
	(!AN * !C * !D * Y)	-0.00024	-0.00022	-0.00020

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX2H7H	(AN * B * D * Y)	-0.00025	-0.00024	-0.00024
	(AN * B * D * Y)	-0.00002	-0.00001	-0.00001
	(AN * B * D * Y)	0.00007	0.00007	0.00009
	(AN * B * D * Y)	0.00006	0.00007	0.00007
	(AN * B * !D * Y)	-0.00025	-0.00024	-0.00024
	(AN * B * !D * Y)	-0.00002	-0.00001	-0.00001
	(AN * B * !D * Y)	0.00008	0.00008	0.00008
	(AN * B * !D * Y)	0.00007	0.00007	0.00007
	(!B * D * Y)	-0.00025	-0.00024	-0.00024
	(!B * D * Y)	-0.00001	-0.00002	-0.00001
	(!B * D * Y)	0.00007	0.00007	0.00007
	(!B * D * Y)	0.00006	0.00006	0.00006
	(!B * !D * Y)	-0.00025	-0.00024	-0.00024
	(!B * !D * Y)	-0.00001	0.00002	0.00023
	(!B * !D * Y)	0.00008	0.00008	0.00008
	(!B * !D * Y)	0.00006	0.00006	0.00007
	(!AN * B * !D * Y)	-0.00025	-0.00024	-0.00024
	(!AN * B * !D * Y)	-0.00001	-0.00001	-0.00001
	(!AN * B * !D * Y)	0.00002	0.00002	0.00002
	(!AN * B * !D * Y)	0.00024	0.00024	0.00024

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX2H7H	(AN * B * D * Y)	0.00024	0.00024	0.00025
	(AN * B * D * Y)	0.00001	0.00002	0.00002
	(AN * B * D * Y)	-0.00007	-0.00007	-0.00007
	(AN * B * D * Y)	-0.00006	-0.00006	-0.00006
	(AN * B * !D * Y)	0.00025	0.00025	0.00025
	(AN * B * !D * Y)	0.00001	0.00002	0.00002
	(AN * B * !D * Y)	-0.00008	-0.00008	-0.00008
	(AN * B * !D * Y)	-0.00007	-0.00007	-0.00007
	(!B * D * Y)	0.00024	0.00024	0.00025
	(!B * D * Y)	0.00001	0.00002	0.00002
	(!B * D * Y)	-0.00007	-0.00007	-0.00007
	(!B * D * Y)	-0.00006	-0.00006	-0.00005
	(!B * !D * Y)	0.00025	0.00025	0.00025
	(!B * !D * Y)	0.00001	0.00002	0.00002
	(!B * !D * Y)	-0.00008	-0.00008	-0.00008
	(!B * !D * Y)	-0.00006	-0.00006	-0.00006
	(!AN * B * !D * Y)	0.00024	0.00025	0.00027
	(!AN * B * !D * Y)	0.00001	0.00002	0.00002
	(!AN * B * !D * Y)	-0.00002	-0.00002	-0.00002
	(!AN * B * !D * Y)	-0.00024	-0.00022	-0.00020

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX2H7H	(AN * B * C * Y)	-0.00038	-0.00038	-0.00038
	(AN * B * C * Y)	-0.00002	-0.00002	-0.00001
	(AN * B * C * Y)	0.00004	0.00004	0.00005
	(AN * B * C * Y)	0.00006	0.00007	0.00007
	(!C * Y)	-0.00038	-0.00038	-0.00038
	(!C * Y)	-0.00001	-0.00001	-0.00001
	(!C * Y)	0.00004	0.00004	0.00004
	(!C * Y)	0.00006	0.00006	0.00006
	(!B * C * Y)	-0.00038	-0.00038	-0.00038
	(!B * C * Y)	-0.00002	-0.00001	-0.00001
	(!B * C * Y)	0.00004	0.00004	0.00005
	(!B * C * Y)	0.00006	0.00006	0.00007

Passive power(pJ) for D falling (conditional):

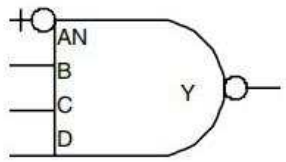
Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX2H7H	(AN * B * C * Y)	0.00038	0.00038	0.00038
	(AN * B * C * Y)	0.00001	0.00002	0.00002
	(AN * B * C * Y)	-0.00004	-0.00004	-0.00004
	(AN * B * C * Y)	-0.00007	-0.00006	-0.00006
	(!C * Y)	0.00038	0.00038	0.00038
	(!C * Y)	0.00001	0.00002	0.00002
	(!C * Y)	-0.00004	-0.00004	-0.00004
	(!C * Y)	-0.00006	-0.00006	-0.00006
	(!B * C * Y)	0.00038	0.00038	0.00038
	(!B * C * Y)	0.00001	0.00002	0.00002
	(!B * C * Y)	-0.00004	-0.00004	-0.00004
	(!B * C * Y)	-0.00006	-0.00006	-0.00006

NAND4BX3H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND4B cell provides a logical NAND of one inverted input (AN) and three non-inverted inputs (B, C, D). The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
AN	B	C	D	Y
x	0	x	x	1
x	1	0	x	1
x	1	1	0	1
0	1	1	1	0
1	1	1	1	1

Footprint

Cell Name	Area
NAND4BX3H7H	4.20000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	AN	B	C	D	Y
NAND4BX3H7H	0.00101	0.00189	0.00191	0.00198	0.03333

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND4BX3H7H	0.00000	0.02164	0.05239

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4BX3H7H	AN->Y (RR)	0.06671	0.16984	0.40478
	B->Y (FR)	0.02867	0.13861	0.49796
	C->Y (FR)	0.02663	0.13408	0.49289
	D->Y (FR)	0.02348	0.12837	0.48730

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4BX3H7H	AN->Y (FF)	0.12883	0.30960	0.75702
	B->Y (RF)	0.07164	0.24676	0.73588
	C->Y (RF)	0.06461	0.24121	0.75166
	D->Y (RF)	0.05329	0.22311	0.72368

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4BX3H7H	AN	0.00321	0.00329	0.00337
	AN	-0.00031	-0.00031	-0.00030
	AN	0.00033	0.00033	0.00035
	AN	0.00181	0.00188	0.00196
	B	0.00280	0.00287	0.00294
	B	-0.00034	-0.00033	-0.00028
	B	0.00023	0.00026	0.00030
	B	-0.00011	-0.00004	0.00003
	C	0.00242	0.00250	0.00256
	C	-0.00034	-0.00033	-0.00032
	C	0.00014	0.00017	0.00021
	C	-0.00013	-0.00004	0.00002
	D	0.00201	0.00212	0.00221
	D	-0.00033	-0.00033	-0.00032
	D	0.00005	0.00006	0.00008
	D	-0.00012	-0.00002	0.00007

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4BX3H7H	AN	0.00164	0.00170	0.00178
	AN	0.00030	0.00031	0.00032
	AN	-0.00035	-0.00033	-0.00033
	AN	0.00337	0.00343	0.00351
	B	-0.00011	-0.00004	0.00000
	B	0.00032	0.00033	0.00034
	B	-0.00030	-0.00026	-0.00023
	B	0.00304	0.00310	0.00315
	C	-0.00009	-0.00003	0.00002
	C	0.00033	0.00033	0.00034
	C	-0.00019	-0.00017	-0.00014
	C	0.00256	0.00262	0.00267
	D	-0.00014	-0.00006	0.00001
	D	0.00032	0.00033	0.00033
	D	-0.00006	-0.00006	-0.00005
	D	0.00199	0.00209	0.00217

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX3H7H	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00024	0.00027	0.00031
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00004	0.00004	0.00004
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	-0.00007	-0.00007	-0.00006
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00116	0.00121	0.00126
	(B * !C * !D * Y)	0.00024	0.00027	0.00030
	(B * !C * !D * Y)	0.00004	0.00004	0.00005
	(B * !C * !D * Y)	-0.00007	-0.00007	-0.00006
	(B * !C * !D * Y)	0.00115	0.00119	0.00123
	(!B * !D * Y)	0.00024	0.00026	0.00029
	(!B * !D * Y)	0.00004	0.00004	0.00004
	(!B * !D * Y)	-0.00007	-0.00006	-0.00006
	(!B * !D * Y)	0.00112	0.00115	0.00120
	(!B * !C * D * Y)	0.00024	0.00026	0.00029
	(!B * !C * D * Y)	0.00004	0.00004	0.00004
	(!B * !C * D * Y)	-0.00007	-0.00006	-0.00006
	(!B * !C * D * Y)	0.00112	0.00115	0.00119

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX3H7H	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00116	0.00119	0.00122
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	-0.00004	-0.00004	-0.00004
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00006	0.00007	0.00007
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00024	0.00027	0.00030
	(B * !C * !D * Y)	0.00116	0.00119	0.00122
	(B * !C * !D * Y)	-0.00004	-0.00004	-0.00004
	(B * !C * !D * Y)	0.00006	0.00007	0.00007
	(B * !C * !D * Y)	0.00025	0.00028	0.00031
	(!B * !D * Y)	0.00115	0.00117	0.00121
	(!B * !D * Y)	-0.00004	-0.00004	-0.00004
	(!B * !D * Y)	0.00006	0.00006	0.00007
	(!B * !D * Y)	0.00027	0.00030	0.00033
	(!B * !C * D * Y)	0.00115	0.00117	0.00121
	(!B * !C * D * Y)	-0.00004	-0.00004	-0.00004
	(!B * !C * D * Y)	0.00006	0.00006	0.00007
	(!B * !C * D * Y)	0.00027	0.00030	0.00034

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX3H7H	(AN * C * D * Y)	-0.00039	-0.00039	-0.00038
	(AN * C * D * Y)	-0.00003	-0.00002	-0.00002
	(AN * C * D * Y)	0.00010	0.00011	0.00011
	(AN * C * D * Y)	0.00023	0.00023	0.00023
	(AN * C * !D * Y)	-0.00040	-0.00040	-0.00039
	(AN * C * !D * Y)	-0.00002	-0.00002	-0.00002
	(AN * C * !D * Y)	0.00012	0.00012	0.00012
	(AN * C * !D * Y)	0.00021	0.00021	0.00021
	(AN * !C * D * Y)	-0.00039	-0.00039	-0.00037
	(AN * !C * D * Y)	-0.00003	-0.00002	-0.00002
	(AN * !C * D * Y)	0.00012	0.00012	0.00012
	(AN * !C * D * Y)	0.00023	0.00023	0.00023
	(AN * !C * !D * Y)	-0.00039	-0.00039	-0.00038
	(AN * !C * !D * Y)	-0.00002	-0.00002	-0.00002
	(AN * !C * !D * Y)	0.00012	0.00012	0.00012
	(AN * !C * !D * Y)	0.00023	0.00023	0.00023
	(!AN * C * !D * Y)	-0.00040	-0.00040	-0.00040
	(!AN * C * !D * Y)	-0.00003	-0.00002	-0.00002
	(!AN * C * !D * Y)	0.00002	0.00003	0.00004
	(!AN * C * !D * Y)	0.00047	0.00047	0.00048
	(!AN * !C * D * Y)	-0.00040	-0.00040	-0.00039
	(!AN * !C * D * Y)	-0.00002	-0.00002	-0.00002
	(!AN * !C * D * Y)	0.00003	0.00003	0.00004
	(!AN * !C * D * Y)	0.00049	0.00049	0.00050
	(!AN * !C * !D * Y)	-0.00040	-0.00040	-0.00039
	(!AN * !C * !D * Y)	-0.00003	-0.00003	-0.00002
	(!AN * !C * !D * Y)	0.00003	0.00004	0.00004
	(!AN * !C * !D * Y)	0.00049	0.00049	0.00049

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX3H7H	(AN * C * D * Y)	0.00039	0.00039	0.00039
	(AN * C * D * Y)	0.00002	0.00002	0.00003
	(AN * C * D * Y)	-0.00010	-0.00010	-0.00010
	(AN * C * D * Y)	-0.00023	-0.00023	-0.00023
	(AN * C * !D * Y)	0.00040	0.00040	0.00040
	(AN * C * !D * Y)	0.00002	0.00003	0.00003
	(AN * C * !D * Y)	-0.00012	-0.00012	-0.00012
	(AN * C * !D * Y)	-0.00021	-0.00021	-0.00020
	(AN * !C * D * Y)	0.00039	0.00039	0.00039
	(AN * !C * D * Y)	0.00002	0.00002	0.00003
	(AN * !C * D * Y)	-0.00012	-0.00012	-0.00012
	(AN * !C * D * Y)	-0.00023	-0.00023	-0.00023
	(AN * !C * !D * Y)	0.00039	0.00039	0.00039
	(AN * !C * !D * Y)	0.00002	0.00002	0.00002
	(AN * !C * !D * Y)	-0.00012	-0.00012	-0.00012
	(AN * !C * !D * Y)	-0.00023	-0.00023	-0.00023
	(!AN * C * !D * Y)	0.00040	0.00040	0.00040
	(!AN * C * !D * Y)	0.00002	0.00002	0.00003
	(!AN * C * !D * Y)	-0.00004	-0.00003	-0.00002
	(!AN * C * !D * Y)	-0.00047	-0.00044	-0.00037
	(!AN * !C * D * Y)	0.00040	0.00040	0.00040
	(!AN * !C * D * Y)	0.00002	0.00002	0.00003
	(!AN * !C * D * Y)	-0.00004	-0.00003	-0.00003
	(!AN * !C * D * Y)	-0.00050	-0.00047	-0.00041
	(!AN * !C * !D * Y)	0.00040	0.00040	0.00040
	(!AN * !C * !D * Y)	0.00002	0.00003	0.00003
	(!AN * !C * !D * Y)	-0.00004	-0.00003	-0.00003
	(!AN * !C * !D * Y)	-0.00049	-0.00047	-0.00042

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX3H7H	(AN * B * D * Y)	-0.00041	-0.00041	-0.00041
	(AN * B * D * Y)	-0.00002	-0.00002	-0.00002
	(AN * B * D * Y)	0.00010	0.00011	0.00011
	(AN * B * D * Y)	0.00015	0.00015	0.00015
	(AN * B * !D * Y)	-0.00041	-0.00040	-0.00040
	(AN * B * !D * Y)	-0.00002	-0.00002	-0.00002
	(AN * B * !D * Y)	0.00012	0.00012	0.00012
	(AN * B * !D * Y)	0.00016	0.00016	0.00016
	(!B * D * Y)	-0.00041	-0.00041	-0.00041
	(!B * D * Y)	-0.00003	-0.00002	-0.00002
	(!B * D * Y)	0.00010	0.00011	0.00011
	(!B * D * Y)	0.00013	0.00013	0.00014
	(!B * !D * Y)	-0.00041	-0.00041	-0.00041
	(!B * !D * Y)	-0.00003	-0.00003	-0.00002
	(!B * !D * Y)	0.00012	0.00012	0.00012
	(!B * !D * Y)	0.00014	0.00014	0.00014
	(!AN * B * !D * Y)	-0.00039	-0.00039	-0.00038
	(!AN * B * !D * Y)	-0.00002	-0.00002	-0.00002
	(!AN * B * !D * Y)	0.00003	0.00003	0.00004
	(!AN * B * !D * Y)	0.00048	0.00048	0.00048

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX3H7H	(AN * B * D * Y)	0.00041	0.00041	0.00041
	(AN * B * D * Y)	0.00002	0.00002	0.00002
	(AN * B * D * Y)	-0.00010	-0.00010	-0.00009
	(AN * B * D * Y)	-0.00014	-0.00014	-0.00013
	(AN * B * !D * Y)	0.00041	0.00041	0.00041
	(AN * B * !D * Y)	0.00002	0.00002	0.00002
	(AN * B * !D * Y)	-0.00012	-0.00012	-0.00012
	(AN * B * !D * Y)	-0.00016	-0.00016	-0.00016
	(!B * D * Y)	0.00041	0.00042	0.00042
	(!B * D * Y)	0.00002	0.00003	0.00003
	(!B * D * Y)	-0.00011	-0.00010	-0.00010
	(!B * D * Y)	-0.00013	-0.00013	-0.00013
	(!B * !D * Y)	0.00042	0.00042	0.00042
	(!B * !D * Y)	0.00002	0.00003	0.00003
	(!B * !D * Y)	-0.00012	-0.00012	-0.00012
	(!B * !D * Y)	-0.00014	-0.00014	-0.00014
	(!AN * B * !D * Y)	0.00039	0.00040	0.00043
	(!AN * B * !D * Y)	0.00002	0.00003	0.00004
	(!AN * B * !D * Y)	-0.00004	-0.00003	-0.00003
	(!AN * B * !D * Y)	-0.00048	-0.00044	-0.00039

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX3H7H	(AN * B * C * Y)	-0.00061	-0.00060	-0.00060
	(AN * B * C * Y)	-0.00002	-0.00002	-0.00002
	(AN * B * C * Y)	0.00006	0.00007	0.00007
	(AN * B * C * Y)	0.00012	0.00012	0.00013
	(!C * Y)	-0.00061	-0.00061	-0.00061
	(!C * Y)	-0.00003	-0.00002	-0.00002
	(!C * Y)	0.00006	0.00007	0.00007
	(!C * Y)	0.00010	0.00010	0.00011
	(!B * C * Y)	-0.00061	-0.00061	-0.00059
	(!B * C * Y)	-0.00002	-0.00002	-0.00002
	(!B * C * Y)	0.00007	0.00007	0.00009
	(!B * C * Y)	0.00009	0.00011	0.00011

Passive power(pJ) for D falling (conditional):

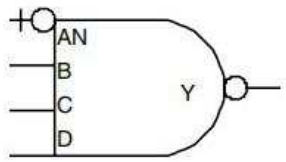
Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX3H7H	(AN * B * C * Y)	0.00061	0.00061	0.00062
	(AN * B * C * Y)	0.00002	0.00003	0.00003
	(AN * B * C * Y)	-0.00007	-0.00006	-0.00006
	(AN * B * C * Y)	-0.00010	-0.00010	-0.00009
	(!C * Y)	0.00061	0.00061	0.00061
	(!C * Y)	0.00002	0.00003	0.00003
	(!C * Y)	-0.00007	-0.00007	-0.00006
	(!C * Y)	-0.00010	-0.00010	-0.00010
	(!B * C * Y)	0.00061	0.00061	0.00061
	(!B * C * Y)	0.00002	0.00002	0.00003
	(!B * C * Y)	-0.00007	-0.00006	-0.00005
	(!B * C * Y)	-0.00010	-0.00010	-0.00009

NAND4BX4H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND4B cell provides a logical NAND of one inverted input (AN) and three non-inverted inputs (B, C, D). The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
AN	B	C	D	Y
x	0	x	x	1
x	1	0	x	1
x	1	1	0	1
0	1	1	1	0
1	1	1	1	1

Footprint

Cell Name	Area
NAND4BX4H7H	4.48000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	AN	B	C	D	Y
NAND4BX4H7H	0.00118	0.00228	0.00232	0.00238	0.04135

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND4BX4H7H	0.00000	0.03574	0.08076

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4BX4H7H	AN->Y (RR)	0.05908	0.16008	0.38867
	B->Y (FR)	0.02807	0.13809	0.49803
	C->Y (FR)	0.02609	0.13376	0.49362
	D->Y (FR)	0.02304	0.12831	0.48899

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4BX4H7H	AN->Y (FF)	0.11608	0.29329	0.72925
	B->Y (RF)	0.07065	0.24509	0.73465
	C->Y (RF)	0.06389	0.23969	0.74908
	D->Y (RF)	0.05289	0.22173	0.71817

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4BX4H7H	AN	0.00399	0.00411	0.00422
	AN	-0.00041	-0.00040	-0.00040
	AN	0.00042	0.00043	0.00043
	AN	0.00219	0.00228	0.00239
	B	0.00350	0.00360	0.00369
	B	-0.00044	-0.00044	-0.00042
	B	0.00029	0.00034	0.00035
	B	-0.00011	-0.00001	0.00008
	C	0.00305	0.00315	0.00324
	C	-0.00044	-0.00044	-0.00041
	C	0.00022	0.00022	0.00028
	C	-0.00015	-0.00004	0.00004
	D	0.00259	0.00269	0.00279
	D	-0.00044	-0.00044	-0.00042
	D	0.00005	0.00008	0.00010
	D	-0.00014	-0.00002	0.00009

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4BX4H7H	AN	0.00198	0.00206	0.00215
	AN	0.00040	0.00040	0.00041
	AN	-0.00043	-0.00043	-0.00042
	AN	0.00418	0.00427	0.00436
	B	-0.00013	-0.00005	0.00002
	B	0.00043	0.00044	0.00045
	B	-0.00035	-0.00034	-0.00029
	B	0.00376	0.00384	0.00391
	C	-0.00011	-0.00003	0.00003
	C	0.00043	0.00044	0.00045
	C	-0.00025	-0.00022	-0.00022
	C	0.00322	0.00329	0.00336
	D	-0.00015	-0.00006	0.00003
	D	0.00043	0.00044	0.00044
	D	-0.00008	-0.00008	-0.00005
	D	0.00250	0.00266	0.00276

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX4H7H	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00032	0.00035	0.00039
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00006	0.00006	0.00006
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	-0.00010	-0.00009	-0.00009
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00142	0.00147	0.00153
	(B * !C * !D * Y)	0.00031	0.00035	0.00039
	(B * !C * !D * Y)	0.00006	0.00006	0.00006
	(B * !C * !D * Y)	-0.00010	-0.00009	-0.00009
	(B * !C * !D * Y)	0.00140	0.00145	0.00151
	(!B * !D * Y)	0.00031	0.00034	0.00038
	(!B * !D * Y)	0.00006	0.00006	0.00006
	(!B * !D * Y)	-0.00009	-0.00009	-0.00008
	(!B * !D * Y)	0.00137	0.00141	0.00146
	(!B * !C * D * Y)	0.00031	0.00034	0.00039
	(!B * !C * D * Y)	0.00006	0.00006	0.00006
	(!B * !C * D * Y)	-0.00010	-0.00009	-0.00008
	(!B * !C * D * Y)	0.00137	0.00141	0.00147

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX4H7H	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00136	0.00139	0.00144
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	-0.00006	-0.00006	-0.00006
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00009	0.00009	0.00010
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00026	0.00029	0.00034
	(B * !C * !D * Y)	0.00136	0.00139	0.00143
	(B * !C * !D * Y)	-0.00006	-0.00006	-0.00006
	(B * !C * !D * Y)	0.00009	0.00009	0.00010
	(B * !C * !D * Y)	0.00027	0.00030	0.00034
	(!B * !D * Y)	0.00135	0.00138	0.00142
	(!B * !D * Y)	-0.00006	-0.00006	-0.00006
	(!B * !D * Y)	0.00008	0.00009	0.00009
	(!B * !D * Y)	0.00030	0.00033	0.00039
	(!B * !C * D * Y)	0.00135	0.00138	0.00142
	(!B * !C * D * Y)	-0.00006	-0.00006	-0.00006
	(!B * !C * D * Y)	0.00008	0.00009	0.00010
	(!B * !C * D * Y)	0.00030	0.00033	0.00036

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX4H7H	(AN * C * D * Y)	-0.00053	-0.00052	-0.00052
	(AN * C * D * Y)	-0.00003	-0.00003	-0.00003
	(AN * C * D * Y)	0.00013	0.00014	0.00014
	(AN * C * D * Y)	0.00022	0.00022	0.00023
	(AN * C * !D * Y)	-0.00053	-0.00053	-0.00052
	(AN * C * !D * Y)	-0.00003	-0.00003	-0.00002
	(AN * C * !D * Y)	0.00015	0.00016	0.00016
	(AN * C * !D * Y)	0.00020	0.00020	0.00020
	(AN * !C * D * Y)	-0.00053	-0.00052	-0.00052
	(AN * !C * D * Y)	-0.00003	-0.00003	-0.00003
	(AN * !C * D * Y)	0.00015	0.00016	0.00016
	(AN * !C * D * Y)	0.00022	0.00023	0.00023
	(AN * !C * !D * Y)	-0.00053	-0.00052	-0.00051
	(AN * !C * !D * Y)	-0.00003	-0.00003	-0.00003
	(AN * !C * !D * Y)	0.00016	0.00016	0.00016
	(AN * !C * !D * Y)	0.00022	0.00022	0.00023
	(!AN * C * !D * Y)	-0.00054	-0.00053	-0.00053
	(!AN * C * !D * Y)	-0.00003	-0.00003	-0.00002
	(!AN * C * !D * Y)	0.00004	0.00005	0.00005
	(!AN * C * !D * Y)	0.00051	0.00051	0.00051
	(!AN * !C * D * Y)	-0.00054	-0.00053	-0.00053
	(!AN * !C * D * Y)	-0.00003	-0.00003	-0.00002
	(!AN * !C * D * Y)	0.00004	0.00004	0.00005
	(!AN * !C * D * Y)	0.00053	0.00053	0.00054
	(!AN * !C * !D * Y)	-0.00054	-0.00053	-0.00053
	(!AN * !C * !D * Y)	-0.00004	-0.00003	-0.00003
	(!AN * !C * !D * Y)	0.00004	0.00005	0.00005
	(!AN * !C * !D * Y)	0.00053	0.00053	0.00053

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX4H7H	(AN * C * D * Y)	0.00052	0.00053	0.00053
	(AN * C * D * Y)	0.00003	0.00003	0.00003
	(AN * C * D * Y)	-0.00013	-0.00013	-0.00013
	(AN * C * D * Y)	-0.00022	-0.00022	-0.00022
	(AN * C * !D * Y)	0.00052	0.00053	0.00053
	(AN * C * !D * Y)	0.00003	0.00003	0.00003
	(AN * C * !D * Y)	-0.00016	-0.00016	-0.00015
	(AN * C * !D * Y)	-0.00020	-0.00020	-0.00020
	(AN * !C * D * Y)	0.00052	0.00053	0.00053
	(AN * !C * D * Y)	0.00003	0.00003	0.00003
	(AN * !C * D * Y)	-0.00016	-0.00016	-0.00015
	(AN * !C * D * Y)	-0.00023	-0.00023	-0.00022
	(AN * !C * !D * Y)	0.00052	0.00053	0.00053
	(AN * !C * !D * Y)	0.00003	0.00003	0.00003
	(AN * !C * !D * Y)	-0.00016	-0.00016	-0.00016
	(AN * !C * !D * Y)	-0.00023	-0.00022	-0.00022
	(!AN * C * !D * Y)	0.00053	0.00054	0.00054
	(!AN * C * !D * Y)	0.00002	0.00003	0.00004
	(!AN * C * !D * Y)	-0.00005	-0.00005	-0.00004
	(!AN * C * !D * Y)	-0.00051	-0.00047	-0.00040
	(!AN * !C * D * Y)	0.00053	0.00053	0.00054
	(!AN * !C * D * Y)	0.00003	0.00003	0.00004
	(!AN * !C * D * Y)	-0.00005	-0.00004	-0.00004
	(!AN * !C * D * Y)	-0.00054	-0.00050	-0.00044
	(!AN * !C * !D * Y)	0.00053	0.00054	0.00054
	(!AN * !C * !D * Y)	0.00003	0.00003	0.00004
	(!AN * !C * !D * Y)	-0.00005	-0.00005	-0.00004
	(!AN * !C * !D * Y)	-0.00053	-0.00050	-0.00045

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX4H7H	(AN * B * D * Y)	-0.00054	-0.00053	-0.00053
	(AN * B * D * Y)	-0.00003	-0.00003	-0.00003
	(AN * B * D * Y)	0.00014	0.00014	0.00016
	(AN * B * D * Y)	0.00016	0.00017	0.00017
	(AN * B * !D * Y)	-0.00053	-0.00053	-0.00053
	(AN * B * !D * Y)	-0.00003	-0.00003	-0.00003
	(AN * B * !D * Y)	0.00016	0.00016	0.00016
	(AN * B * !D * Y)	0.00017	0.00018	0.00018
	(!B * D * Y)	-0.00054	-0.00054	-0.00054
	(!B * D * Y)	-0.00003	-0.00003	-0.00003
	(!B * D * Y)	0.00013	0.00014	0.00014
	(!B * D * Y)	0.00015	0.00015	0.00015
	(!B * !D * Y)	-0.00054	-0.00054	-0.00054
	(!B * !D * Y)	-0.00003	-0.00003	-0.00003
	(!B * !D * Y)	0.00016	0.00016	0.00016
	(!B * !D * Y)	0.00015	0.00015	0.00015
	(!AN * B * !D * Y)	-0.00052	-0.00052	-0.00051
	(!AN * B * !D * Y)	-0.00004	-0.00003	-0.00002
	(!AN * B * !D * Y)	0.00004	0.00005	0.00005
	(!AN * B * !D * Y)	0.00055	0.00055	0.00056

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX4H7H	(AN * B * D * Y)	0.00054	0.00054	0.00054
	(AN * B * D * Y)	0.00003	0.00003	0.00003
	(AN * B * D * Y)	-0.00013	-0.00013	-0.00012
	(AN * B * D * Y)	-0.00015	-0.00015	-0.00015
	(AN * B * !D * Y)	0.00053	0.00054	0.00055
	(AN * B * !D * Y)	0.00003	0.00003	0.00003
	(AN * B * !D * Y)	-0.00016	-0.00016	-0.00016
	(AN * B * !D * Y)	-0.00018	-0.00018	-0.00017
	(!B * D * Y)	0.00054	0.00054	0.00055
	(!B * D * Y)	0.00003	0.00003	0.00003
	(!B * D * Y)	-0.00013	-0.00013	-0.00013
	(!B * D * Y)	-0.00015	-0.00015	-0.00014
	(!B * !D * Y)	0.00054	0.00055	0.00055
	(!B * !D * Y)	0.00003	0.00003	0.00003
	(!B * !D * Y)	-0.00016	-0.00016	-0.00016
	(!B * !D * Y)	-0.00015	-0.00015	-0.00015
	(!AN * B * !D * Y)	0.00052	0.00053	0.00055
	(!AN * B * !D * Y)	0.00003	0.00003	0.00005
	(!AN * B * !D * Y)	-0.00005	-0.00005	-0.00004
	(!AN * B * !D * Y)	-0.00055	-0.00051	-0.00044

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX4H7H	(AN * B * C * Y)	-0.00076	-0.00075	-0.00075
	(AN * B * C * Y)	-0.00003	-0.00003	-0.00003
	(AN * B * C * Y)	0.00008	0.00009	0.00010
	(AN * B * C * Y)	0.00013	0.00013	0.00014
	(!C * Y)	-0.00076	-0.00075	-0.00075
	(!C * Y)	-0.00003	-0.00003	-0.00003
	(!C * Y)	0.00009	0.00009	0.00011
	(!C * Y)	0.00010	0.00011	0.00011
	(!B * C * Y)	-0.00076	-0.00075	-0.00075
	(!B * C * Y)	-0.00003	-0.00003	-0.00003
	(!B * C * Y)	0.00009	0.00009	0.00010
	(!B * C * Y)	0.00011	0.00012	0.00012

Passive power(pJ) for D falling (conditional):

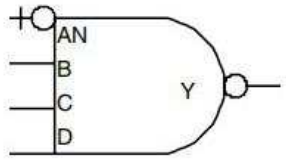
Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX4H7H	(AN * B * C * Y)	0.00075	0.00076	0.00076
	(AN * B * C * Y)	0.00003	0.00003	0.00003
	(AN * B * C * Y)	-0.00008	-0.00008	-0.00008
	(AN * B * C * Y)	-0.00011	-0.00011	-0.00011
	(!C * Y)	0.00075	0.00076	0.00076
	(!C * Y)	0.00003	0.00003	0.00003
	(!C * Y)	-0.00009	-0.00009	-0.00007
	(!C * Y)	-0.00011	-0.00011	-0.00010
	(!B * C * Y)	0.00075	0.00076	0.00076
	(!B * C * Y)	0.00003	0.00003	0.00003
	(!B * C * Y)	-0.00008	-0.00008	-0.00008
	(!B * C * Y)	-0.00012	-0.00011	-0.00011

NAND4BX6H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND4B cell provides a logical NAND of one inverted input (AN) and three non-inverted inputs (B, C, D). The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
AN	B	C	D	Y
x	0	x	x	1
x	1	0	x	1
x	1	1	0	1
0	1	1	1	0
1	1	1	1	1

Footprint

Cell Name	Area
NAND4BX6H7H	5.60000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	AN	B	C	D	Y
NAND4BX6H7H	0.00134	0.00338	0.00345	0.00354	0.06313

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND4BX6H7H	0.00000	0.05231	0.12187

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4BX6H7H	AN->Y (RR)	0.06371	0.17030	0.41445
	B->Y (FR)	0.02674	0.13719	0.50092
	C->Y (FR)	0.02476	0.13287	0.49665
	D->Y (FR)	0.02163	0.12719	0.49168

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4BX6H7H	AN->Y (FF)	0.11996	0.30427	0.76012
	B->Y (RF)	0.06685	0.24313	0.73864
	C->Y (RF)	0.06065	0.23853	0.75478
	D->Y (RF)	0.04934	0.22018	0.72585

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4BX6H7H	AN	0.00589	0.00607	0.00618
	AN	-0.00062	-0.00061	-0.00057
	AN	0.00064	0.00066	0.00066
	AN	0.00291	0.00305	0.00315
	B	0.00509	0.00525	0.00538
	B	-0.00066	-0.00065	-0.00058
	B	0.00043	0.00052	0.00053
	B	-0.00028	-0.00014	0.00001
	C	0.00442	0.00456	0.00469
	C	-0.00066	-0.00066	-0.00064
	C	0.00024	0.00033	0.00033
	C	-0.00032	-0.00015	0.00002
	D	0.00369	0.00385	0.00400
	D	-0.00067	-0.00065	-0.00064
	D	0.00009	0.00012	0.00016
	D	-0.00032	-0.00014	0.00002

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4BX6H7H	AN	0.00274	0.00287	0.00300
	AN	0.00061	0.00062	0.00063
	AN	-0.00066	-0.00066	-0.00064
	AN	0.00631	0.00644	0.00657
	B	-0.00020	-0.00006	0.00003
	B	0.00065	0.00066	0.00067
	B	-0.00053	-0.00052	-0.00043
	B	0.00559	0.00573	0.00583
	C	-0.00015	-0.00003	0.00006
	C	0.00064	0.00066	0.00067
	C	-0.00033	-0.00033	-0.00024
	C	0.00476	0.00488	0.00498
	D	-0.00021	-0.00007	0.00006
	D	0.00064	0.00066	0.00068
	D	-0.00012	-0.00012	-0.00009
	D	0.00377	0.00393	0.00408

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX6H7H	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00054	0.00058	0.00064
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00008	0.00009	0.00009
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	-0.00014	-0.00013	-0.00012
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00188	0.00194	0.00203
	(B * !C * !D * Y)	0.00054	0.00058	0.00063
	(B * !C * !D * Y)	0.00008	0.00009	0.00009
	(B * !C * !D * Y)	-0.00013	-0.00013	-0.00012
	(B * !C * !D * Y)	0.00185	0.00192	0.00200
	(!B * !D * Y)	0.00054	0.00058	0.00063
	(!B * !D * Y)	0.00008	0.00009	0.00009
	(!B * !D * Y)	-0.00013	-0.00012	-0.00012
	(!B * !D * Y)	0.00180	0.00185	0.00190
	(!B * !C * D * Y)	0.00054	0.00058	0.00063
	(!B * !C * D * Y)	0.00008	0.00009	0.00009
	(!B * !C * D * Y)	-0.00013	-0.00012	-0.00011
	(!B * !C * D * Y)	0.00180	0.00185	0.00190

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX6H7H	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00183	0.00187	0.00192
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	-0.00009	-0.00009	-0.00008
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00012	0.00013	0.00014
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00050	0.00053	0.00058
	(B * !C * !D * Y)	0.00183	0.00186	0.00192
	(B * !C * !D * Y)	-0.00009	-0.00009	-0.00008
	(B * !C * !D * Y)	0.00012	0.00013	0.00013
	(B * !C * !D * Y)	0.00051	0.00055	0.00061
	(!B * !D * Y)	0.00181	0.00184	0.00189
	(!B * !D * Y)	-0.00009	-0.00009	-0.00008
	(!B * !D * Y)	0.00012	0.00012	0.00013
	(!B * !D * Y)	0.00056	0.00059	0.00064
	(!B * !C * D * Y)	0.00180	0.00184	0.00189
	(!B * !C * D * Y)	-0.00009	-0.00009	-0.00008
	(!B * !C * D * Y)	0.00011	0.00012	0.00013
	(!B * !C * D * Y)	0.00056	0.00059	0.00064

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX6H7H	(AN * C * D * Y)	-0.00076	-0.00076	-0.00075
	(AN * C * D * Y)	-0.00004	-0.00004	-0.00004
	(AN * C * D * Y)	0.00021	0.00021	0.00022
	(AN * C * D * Y)	0.00033	0.00034	0.00034
	(AN * C * !D * Y)	-0.00077	-0.00077	-0.00076
	(AN * C * !D * Y)	-0.00004	-0.00004	-0.00004
	(AN * C * !D * Y)	0.00024	0.00024	0.00024
	(AN * C * !D * Y)	0.00031	0.00031	0.00031
	(AN * !C * D * Y)	-0.00076	-0.00076	-0.00075
	(AN * !C * D * Y)	-0.00004	-0.00004	-0.00003
	(AN * !C * D * Y)	0.00024	0.00025	0.00025
	(AN * !C * D * Y)	0.00033	0.00034	0.00034
	(AN * !C * !D * Y)	-0.00076	-0.00076	-0.00075
	(AN * !C * !D * Y)	-0.00004	-0.00003	0.00004
	(AN * !C * !D * Y)	0.00024	0.00025	0.00025
	(AN * !C * !D * Y)	0.00033	0.00034	0.00034
	(!AN * C * !D * Y)	-0.00079	-0.00079	-0.00078
	(!AN * C * !D * Y)	-0.00005	-0.00004	-0.00003
	(!AN * C * !D * Y)	0.00007	0.00008	0.00010
	(!AN * C * !D * Y)	0.00077	0.00077	0.00078
	(!AN * !C * D * Y)	-0.00079	-0.00078	-0.00077
	(!AN * !C * D * Y)	-0.00004	-0.00004	-0.00004
	(!AN * !C * D * Y)	0.00006	0.00007	0.00007
	(!AN * !C * D * Y)	0.00080	0.00081	0.00082
	(!AN * !C * !D * Y)	-0.00079	-0.00078	-0.00077
	(!AN * !C * !D * Y)	-0.00004	-0.00004	-0.00004
	(!AN * !C * !D * Y)	0.00007	0.00007	0.00008
	(!AN * !C * !D * Y)	0.00079	0.00080	0.00081

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX6H7H	(AN * C * D * Y)	0.00075	0.00076	0.00076
	(AN * C * D * Y)	0.00004	0.00004	0.00004
	(AN * C * D * Y)	-0.00021	-0.00021	-0.00021
	(AN * C * D * Y)	-0.00033	-0.00033	-0.00033
	(AN * C * !D * Y)	0.00077	0.00077	0.00077
	(AN * C * !D * Y)	0.00004	0.00005	0.00005
	(AN * C * !D * Y)	-0.00024	-0.00024	-0.00024
	(AN * C * !D * Y)	-0.00031	-0.00030	-0.00030
	(AN * !C * D * Y)	0.00075	0.00076	0.00076
	(AN * !C * D * Y)	0.00004	0.00004	0.00005
	(AN * !C * D * Y)	-0.00025	-0.00025	-0.00024
	(AN * !C * D * Y)	-0.00034	-0.00034	-0.00033
	(AN * !C * !D * Y)	0.00075	0.00076	0.00076
	(AN * !C * !D * Y)	0.00004	0.00004	0.00005
	(AN * !C * !D * Y)	-0.00025	-0.00025	-0.00024
	(AN * !C * !D * Y)	-0.00034	-0.00034	-0.00033
	(!AN * C * !D * Y)	0.00079	0.00079	0.00080
	(!AN * C * !D * Y)	0.00003	0.00004	0.00005
	(!AN * C * !D * Y)	-0.00010	-0.00008	-0.00007
	(!AN * C * !D * Y)	-0.00078	-0.00071	-0.00060
	(!AN * !C * D * Y)	0.00078	0.00079	0.00079
	(!AN * !C * D * Y)	0.00004	0.00004	0.00005
	(!AN * !C * D * Y)	-0.00007	-0.00007	-0.00006
	(!AN * !C * D * Y)	-0.00081	-0.00076	-0.00067
	(!AN * !C * !D * Y)	0.00078	0.00079	0.00079
	(!AN * !C * !D * Y)	0.00004	0.00004	0.00004
	(!AN * !C * !D * Y)	-0.00008	-0.00007	-0.00007
	(!AN * !C * !D * Y)	-0.00081	-0.00076	-0.00068

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX6H7H	(AN * B * D * Y)	-0.00078	-0.00078	-0.00077
	(AN * B * D * Y)	-0.00005	-0.00004	-0.00004
	(AN * B * D * Y)	0.00020	0.00021	0.00021
	(AN * B * D * Y)	0.00021	0.00022	0.00022
	(AN * B * !D * Y)	-0.00078	-0.00078	-0.00077
	(AN * B * !D * Y)	-0.00005	-0.00004	-0.00004
	(AN * B * !D * Y)	0.00024	0.00025	0.00025
	(AN * B * !D * Y)	0.00023	0.00023	0.00023
	(!B * D * Y)	-0.00078	-0.00078	-0.00077
	(!B * D * Y)	-0.00004	-0.00004	-0.00004
	(!B * D * Y)	0.00020	0.00021	0.00022
	(!B * D * Y)	0.00018	0.00018	0.00019
	(!B * !D * Y)	-0.00080	-0.00078	-0.00078
	(!B * !D * Y)	-0.00005	-0.00002	0.00012
	(!B * !D * Y)	0.00024	0.00025	0.00025
	(!B * !D * Y)	0.00018	0.00018	0.00019
	(!AN * B * !D * Y)	-0.00077	-0.00076	-0.00076
	(!AN * B * !D * Y)	-0.00005	-0.00004	-0.00002
	(!AN * B * !D * Y)	0.00007	0.00007	0.00008
	(!AN * B * !D * Y)	0.00081	0.00081	0.00082

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX6H7H	(AN * B * D * Y)	0.00078	0.00078	0.00079
	(AN * B * D * Y)	0.00004	0.00005	0.00005
	(AN * B * D * Y)	-0.00021	-0.00021	-0.00020
	(AN * B * D * Y)	-0.00019	-0.00018	-0.00018
	(AN * B * !D * Y)	0.00078	0.00079	0.00080
	(AN * B * !D * Y)	0.00004	0.00005	0.00005
	(AN * B * !D * Y)	-0.00025	-0.00025	-0.00024
	(AN * B * !D * Y)	-0.00023	-0.00023	-0.00023
	(!B * D * Y)	0.00077	0.00078	0.00079
	(!B * D * Y)	0.00004	0.00004	0.00005
	(!B * D * Y)	-0.00021	-0.00021	-0.00020
	(!B * D * Y)	-0.00018	-0.00018	-0.00017
	(!B * !D * Y)	0.00079	0.00079	0.00080
	(!B * !D * Y)	0.00004	0.00004	0.00005
	(!B * !D * Y)	-0.00025	-0.00025	-0.00024
	(!B * !D * Y)	-0.00018	-0.00018	-0.00018
	(!AN * B * !D * Y)	0.00077	0.00079	0.00085
	(!AN * B * !D * Y)	0.00002	0.00004	0.00005
	(!AN * B * !D * Y)	-0.00008	-0.00007	-0.00007
	(!AN * B * !D * Y)	-0.00080	-0.00074	-0.00065

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX6H7H	(AN * B * C * Y)	-0.00110	-0.00110	-0.00109
	(AN * B * C * Y)	-0.00004	-0.00004	-0.00004
	(AN * B * C * Y)	0.00013	0.00014	0.00014
	(AN * B * C * Y)	0.00018	0.00019	0.00019
	(!C * Y)	-0.00111	-0.00110	-0.00110
	(!C * Y)	-0.00005	-0.00004	-0.00004
	(!C * Y)	0.00013	0.00014	0.00014
	(!C * Y)	0.00016	0.00016	0.00017
	(!B * C * Y)	-0.00110	-0.00109	-0.00107
	(!B * C * Y)	-0.00004	-0.00004	-0.00004
	(!B * C * Y)	0.00014	0.00014	0.00018
	(!B * C * Y)	0.00012	0.00016	0.00017

Passive power(pJ) for D falling (conditional):

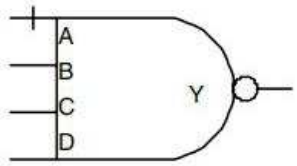
Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX6H7H	(AN * B * C * Y)	0.00109	0.00110	0.00111
	(AN * B * C * Y)	0.00004	0.00004	0.00004
	(AN * B * C * Y)	-0.00013	-0.00013	-0.00013
	(AN * B * C * Y)	-0.00016	-0.00016	-0.00015
	(!C * Y)	0.00110	0.00111	0.00111
	(!C * Y)	0.00004	0.00005	0.00005
	(!C * Y)	-0.00013	-0.00013	-0.00013
	(!C * Y)	-0.00016	-0.00016	-0.00016
	(!B * C * Y)	0.00110	0.00110	0.00111
	(!B * C * Y)	0.00004	0.00004	0.00005
	(!B * C * Y)	-0.00014	-0.00013	-0.00011
	(!B * C * Y)	-0.00016	-0.00015	-0.00012

NAND4X0P5H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND4 cell provides a logical NAND of four inputs (A, B, C, D). The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A	B	C	D	Y
0	x	x	x	1
1	0	x	x	1
1	1	0	x	1
1	1	1	0	1
1	1	1	1	0

Footprint

Cell Name	Area
NAND4X0P5H7H	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A	B	C	D	Y
NAND4X0P5H7H	0.00083	0.00078	0.00082	0.00091	0.01255

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND4X0P5H7H	0.00000	0.00553	0.02913

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4X0P5H7H	A->Y (FR)	0.03951	0.15454	0.51596
	B->Y (FR)	0.03714	0.15047	0.51192
	C->Y (FR)	0.03542	0.14700	0.50817
	D->Y (FR)	0.03328	0.14307	0.50482

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4X0P5H7H	A->Y (RF)	0.08831	0.25200	0.69844
	B->Y (RF)	0.08406	0.25207	0.71952
	C->Y (RF)	0.08070	0.25277	0.74352
	D->Y (RF)	0.07454	0.24247	0.73198

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4X0P5H7H	A	0.00132	0.00136	0.00138
	A	-0.00011	-0.00011	-0.00010
	A	0.00012	0.00013	0.00013
	A	-0.00004	-0.00002	-0.00000
	B	0.00119	0.00122	0.00124
	B	-0.00011	-0.00011	-0.00011
	B	0.00009	0.00009	0.00009
	B	-0.00001	0.00001	0.00003
	C	0.00109	0.00112	0.00114
	C	-0.00011	-0.00011	-0.00011
	C	0.00004	0.00006	0.00007
	C	0.00001	0.00004	0.00007
	D	0.00098	0.00102	0.00106
	D	-0.00011	-0.00011	-0.00010
	D	0.00002	0.00013	0.00521
	D	-0.00095	-0.00000	0.00005

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4X0P5H7H	A	-0.00010	-0.00007	-0.00005
	A	0.00011	0.00011	0.00011
	A	-0.00013	-0.00013	-0.00012
	A	0.00137	0.00139	0.00142
	B	-0.00009	-0.00007	-0.00005
	B	0.00011	0.00011	0.00011
	B	-0.00009	-0.00009	-0.00009
	B	0.00118	0.00120	0.00122
	C	-0.00010	-0.00007	-0.00005
	C	0.00011	0.00011	0.00011
	C	-0.00007	-0.00006	-0.00004
	C	0.00101	0.00104	0.00106
	D	-0.00012	-0.00009	-0.00005
	D	0.00011	0.00011	0.00011
	D	-0.00002	-0.00002	-0.00002
	D	0.00088	0.00092	0.00096

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X0P5H7H	(B * C * !D * Y)	-0.00016	-0.00016	-0.00016
	(B * C * !D * Y)	-0.00001	-0.00001	-0.00001
	(B * C * !D * Y)	0.00001	0.00001	0.00001
	(B * C * !D * Y)	0.00021	0.00021	0.00021
	(B * !C * D * Y)	-0.00016	-0.00016	-0.00016
	(B * !C * D * Y)	-0.00001	-0.00001	-0.00001
	(B * !C * D * Y)	0.00001	0.00001	0.00001
	(B * !C * D * Y)	0.00021	0.00021	0.00021
	(B * !C * !D * Y)	-0.00016	-0.00016	-0.00016
	(B * !C * !D * Y)	-0.00001	-0.00001	-0.00001
	(B * !C * !D * Y)	0.00001	0.00001	0.00001
	(B * !C * !D * Y)	0.00021	0.00021	0.00021
	(!B * C * D * Y)	-0.00016	-0.00016	-0.00016
	(!B * C * D * Y)	-0.00001	-0.00001	-0.00001
	(!B * C * D * Y)	0.00001	0.00001	0.00001
	(!B * C * D * Y)	0.00022	0.00022	0.00022
	(!B * !D * Y)	-0.00016	-0.00016	-0.00016
	(!B * !D * Y)	-0.00001	-0.00001	-0.00001
	(!B * !D * Y)	0.00001	0.00001	0.00001
	(!B * !D * Y)	0.00021	0.00022	0.00022
	(!B * !C * D * Y)	-0.00016	-0.00016	-0.00016
	(!B * !C * D * Y)	-0.00001	-0.00001	-0.00001
	(!B * !C * D * Y)	0.00001	0.00001	0.00001
	(!B * !C * D * Y)	0.00021	0.00022	0.00022

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X0P5H7H	(B * C * !D * Y)	0.00016	0.00016	0.00016
	(B * C * !D * Y)	0.00001	0.00001	0.00001
	(B * C * !D * Y)	-0.00001	-0.00001	-0.00001
	(B * C * !D * Y)	-0.00021	-0.00020	-0.00018
	(B * !C * D * Y)	0.00016	0.00016	0.00016
	(B * !C * D * Y)	0.00001	0.00001	0.00001
	(B * !C * D * Y)	-0.00001	-0.00001	-0.00001
	(B * !C * D * Y)	-0.00021	-0.00020	-0.00018
	(B * !C * !D * Y)	0.00016	0.00016	0.00016
	(B * !C * !D * Y)	0.00001	0.00001	0.00001
	(B * !C * !D * Y)	-0.00001	-0.00001	-0.00001
	(B * !C * !D * Y)	-0.00021	-0.00020	-0.00019
	(!B * C * D * Y)	0.00016	0.00016	0.00016
	(!B * C * D * Y)	0.00001	0.00001	0.00001
	(!B * C * D * Y)	-0.00001	-0.00001	-0.00001
	(!B * C * D * Y)	-0.00022	-0.00021	-0.00019
	(!B * !D * Y)	0.00016	0.00016	0.00016
	(!B * !D * Y)	0.00001	0.00001	0.00001
	(!B * !D * Y)	-0.00001	-0.00001	-0.00001
	(!B * !D * Y)	-0.00022	-0.00021	-0.00020
	(!B * !C * D * Y)	0.00016	0.00016	0.00016
	(!B * !C * D * Y)	0.00001	0.00001	0.00001
	(!B * !C * D * Y)	-0.00001	-0.00001	-0.00001
	(!B * !C * D * Y)	-0.00022	-0.00021	-0.00020

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X0P5H7H	(A * C * !D * Y)	-0.00014	-0.00014	-0.00014
	(A * C * !D * Y)	-0.00001	-0.00001	-0.00001
	(A * C * !D * Y)	0.00001	0.00001	0.00002
	(A * C * !D * Y)	0.00019	0.00019	0.00020
	(A * !C * D * Y)	-0.00014	-0.00014	-0.00013
	(A * !C * D * Y)	-0.00001	-0.00001	-0.00001
	(A * !C * D * Y)	0.00001	0.00001	0.00001
	(A * !C * D * Y)	0.00020	0.00020	0.00020
	(A * !C * !D * Y)	-0.00014	-0.00014	-0.00013
	(A * !C * !D * Y)	-0.00001	-0.00001	-0.00001
	(A * !C * !D * Y)	0.00001	0.00001	0.00001
	(A * !C * !D * Y)	0.00020	0.00020	0.00020
	(!A * C * D * Y)	-0.00014	-0.00014	-0.00013
	(!A * C * D * Y)	-0.00001	-0.00001	-0.00001
	(!A * C * D * Y)	0.00004	0.00004	0.00004
	(!A * C * D * Y)	0.00007	0.00007	0.00007
	(!A * C * !D * Y)	-0.00014	-0.00014	-0.00014
	(!A * C * !D * Y)	-0.00001	-0.00001	-0.00001
	(!A * C * !D * Y)	0.00005	0.00005	0.00005
	(!A * C * !D * Y)	0.00007	0.00007	0.00007
	(!A * !C * D * Y)	-0.00014	-0.00014	-0.00014
	(!A * !C * D * Y)	-0.00001	-0.00001	-0.00001
	(!A * !C * D * Y)	0.00005	0.00005	0.00005
	(!A * !C * D * Y)	0.00007	0.00007	0.00007
	(!A * !C * !D * Y)	-0.00014	-0.00014	-0.00014
	(!A * !C * !D * Y)	-0.00001	-0.00001	-0.00001
	(!A * !C * !D * Y)	0.00005	0.00005	0.00005
	(!A * !C * !D * Y)	0.00007	0.00007	0.00007

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X0P5H7H	(A * C * !D * Y)	0.00014	0.00014	0.00014
	(A * C * !D * Y)	0.00001	0.00001	0.00001
	(A * C * !D * Y)	-0.00002	-0.00001	-0.00001
	(A * C * !D * Y)	-0.00019	-0.00018	-0.00016
	(A * !C * D * Y)	0.00013	0.00014	0.00014
	(A * !C * D * Y)	0.00001	0.00001	0.00001
	(A * !C * D * Y)	-0.00001	-0.00001	-0.00001
	(A * !C * D * Y)	-0.00020	-0.00019	-0.00017
	(A * !C * !D * Y)	0.00013	0.00014	0.00014
	(A * !C * !D * Y)	0.00001	0.00001	0.00001
	(A * !C * !D * Y)	-0.00001	-0.00001	-0.00001
	(A * !C * !D * Y)	-0.00020	-0.00019	-0.00017
	(!A * C * D * Y)	0.00014	0.00014	0.00014
	(!A * C * D * Y)	0.00001	0.00001	0.00001
	(!A * C * D * Y)	-0.00004	-0.00004	-0.00004
	(!A * C * D * Y)	-0.00007	-0.00007	-0.00007
	(!A * C * !D * Y)	0.00014	0.00014	0.00014
	(!A * C * !D * Y)	0.00001	0.00001	0.00001
	(!A * C * !D * Y)	-0.00005	-0.00005	-0.00005
	(!A * C * !D * Y)	-0.00007	-0.00007	-0.00007
	(!A * !C * D * Y)	0.00014	0.00014	0.00014
	(!A * !C * D * Y)	0.00001	0.00001	0.00001
	(!A * !C * D * Y)	-0.00005	-0.00005	-0.00005
	(!A * !C * D * Y)	-0.00007	-0.00007	-0.00007
	(!A * !C * !D * Y)	0.00014	0.00014	0.00014
	(!A * !C * !D * Y)	0.00001	0.00001	0.00001
	(!A * !C * !D * Y)	-0.00005	-0.00005	-0.00005
	(!A * !C * !D * Y)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X0P5H7H	(A * B * !D * Y)	-0.00016	-0.00016	-0.00016
	(A * B * !D * Y)	-0.00001	-0.00001	-0.00001
	(A * B * !D * Y)	0.00001	0.00001	0.00001
	(A * B * !D * Y)	0.00017	0.00017	0.00018
	(!B * D * Y)	-0.00016	-0.00016	-0.00016
	(!B * D * Y)	-0.00001	-0.00001	-0.00001
	(!B * D * Y)	0.00004	0.00004	0.00004
	(!B * D * Y)	0.00005	0.00005	0.00005
	(!B * !D * Y)	-0.00016	-0.00016	-0.00016
	(!B * !D * Y)	-0.00001	-0.00001	-0.00001
	(!B * !D * Y)	0.00005	0.00005	0.00005
	(!B * !D * Y)	0.00005	0.00005	0.00005
	(!A * B * D * Y)	-0.00016	-0.00016	-0.00016
	(!A * B * D * Y)	-0.00001	-0.00001	-0.00001
	(!A * B * D * Y)	0.00004	0.00004	0.00004
	(!A * B * D * Y)	0.00005	0.00005	0.00005
	(!A * B * !D * Y)	-0.00016	-0.00016	-0.00016
	(!A * B * !D * Y)	-0.00001	-0.00001	-0.00001
	(!A * B * !D * Y)	0.00004	0.00005	0.00005
	(!A * B * !D * Y)	0.00005	0.00005	0.00005

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X0P5H7H	(A * B * !D * Y)	0.00016	0.00017	0.00018
	(A * B * !D * Y)	0.00001	0.00001	0.00001
	(A * B * !D * Y)	-0.00001	-0.00001	-0.00001
	(A * B * !D * Y)	-0.00018	-0.00016	-0.00015
	(!B * D * Y)	0.00016	0.00016	0.00016
	(!B * D * Y)	0.00001	0.00001	0.00001
	(!B * D * Y)	-0.00004	-0.00004	-0.00004
	(!B * D * Y)	-0.00005	-0.00005	-0.00005
	(!B * !D * Y)	0.00016	0.00016	0.00017
	(!B * !D * Y)	0.00001	0.00001	0.00001
	(!B * !D * Y)	-0.00005	-0.00005	-0.00005
	(!B * !D * Y)	-0.00005	-0.00005	-0.00005
	(!A * B * D * Y)	0.00016	0.00016	0.00017
	(!A * B * D * Y)	0.00001	0.00001	0.00001
	(!A * B * D * Y)	-0.00004	-0.00004	-0.00004
	(!A * B * D * Y)	-0.00005	-0.00005	-0.00005
	(!A * B * !D * Y)	0.00016	0.00016	0.00017
	(!A * B * !D * Y)	0.00001	0.00001	0.00001
	(!A * B * !D * Y)	-0.00005	-0.00005	-0.00004
	(!A * B * !D * Y)	-0.00005	-0.00005	-0.00005

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X0P5H7H	(!C * Y)	-0.00026	-0.00026	-0.00026
	(!C * Y)	-0.00001	-0.00001	-0.00001
	(!C * Y)	0.00002	0.00003	0.00003
	(!C * Y)	0.00007	0.00007	0.00007
	(!B * C * Y)	-0.00026	-0.00026	-0.00026
	(!B * C * Y)	-0.00001	-0.00001	-0.00001
	(!B * C * Y)	0.00002	0.00002	0.00002
	(!B * C * Y)	0.00006	0.00007	0.00007
	(!A * B * C * Y)	-0.00026	-0.00026	-0.00026
	(!A * B * C * Y)	-0.00001	-0.00001	-0.00001
	(!A * B * C * Y)	0.00002	0.00002	0.00002
	(!A * B * C * Y)	0.00006	0.00007	0.00007

Passive power(pJ) for D falling (conditional):

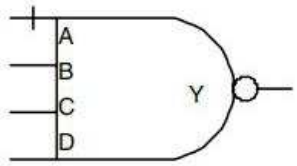
Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X0P5H7H	(!C * Y)	0.00026	0.00026	0.00026
	(!C * Y)	0.00001	0.00001	0.00001
	(!C * Y)	-0.00002	-0.00003	-0.00002
	(!C * Y)	-0.00007	-0.00007	-0.00007
	(!B * C * Y)	0.00026	0.00026	0.00026
	(!B * C * Y)	0.00001	0.00001	0.00001
	(!B * C * Y)	-0.00002	-0.00002	-0.00002
	(!B * C * Y)	-0.00007	-0.00007	-0.00006
	(!A * B * C * Y)	0.00026	0.00026	0.00026
	(!A * B * C * Y)	0.00001	0.00001	0.00001
	(!A * B * C * Y)	-0.00002	-0.00002	-0.00002
	(!A * B * C * Y)	-0.00007	-0.00007	-0.00006

NAND4X0P7H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND4 cell provides a logical NAND of four inputs (A, B, C, D). The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A	B	C	D	Y
0	x	x	x	1
1	0	x	x	1
1	1	0	x	1
1	1	1	0	1
1	1	1	1	0

Footprint

Cell Name	Area
NAND4X0P7H7H	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A	B	C	D	Y
NAND4X0P7H7H	0.00087	0.00083	0.00086	0.00096	0.01392

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND4X0P7H7H	0.00000	0.00605	0.02717

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4X0P7H7H	A->Y (FR)	0.03656	0.15016	0.51018
	B->Y (FR)	0.03446	0.14622	0.50539
	C->Y (FR)	0.03280	0.14282	0.50189
	D->Y (FR)	0.03068	0.13881	0.49778

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4X0P7H7H	A->Y (RF)	0.08419	0.24968	0.70156
	B->Y (RF)	0.07999	0.24921	0.72179
	C->Y (RF)	0.07638	0.24908	0.74365
	D->Y (RF)	0.06967	0.23711	0.72635

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4X0P7H7H	A	0.00141	0.00144	0.00147
	A	-0.00013	-0.00013	-0.00012
	A	0.00014	0.00014	0.00015
	A	-0.00006	-0.00004	-0.00002
	B	0.00126	0.00129	0.00132
	B	-0.00013	-0.00013	-0.00012
	B	0.00011	0.00011	0.00011
	B	-0.00003	-0.00001	0.00001
	C	0.00115	0.00118	0.00121
	C	-0.00013	-0.00013	-0.00012
	C	0.00006	0.00007	0.00010
	C	-0.00001	0.00002	0.00004
	D	0.00103	0.00107	0.00111
	D	-0.00013	-0.00013	-0.00012
	D	0.00001	0.00003	0.00030
	D	-0.00026	-0.00001	0.00004

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4X0P7H7H	A	-0.00012	-0.00008	-0.00006
	A	0.00012	0.00013	0.00013
	A	-0.00015	-0.00014	-0.00014
	A	0.00147	0.00150	0.00153
	B	-0.00010	-0.00008	-0.00006
	B	0.00012	0.00013	0.00013
	B	-0.00011	-0.00011	-0.00011
	B	0.00127	0.00129	0.00131
	C	-0.00011	-0.00008	-0.00006
	C	0.00012	0.00013	0.00013
	C	-0.00008	-0.00007	-0.00006
	C	0.00109	0.00112	0.00114
	D	-0.00013	-0.00010	-0.00006
	D	0.00012	0.00013	0.00013
	D	-0.00003	-0.00002	-0.00001
	D	0.00094	0.00098	0.00102

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X0P7H7H	(B * C * !D * Y)	-0.00018	-0.00018	-0.00017
	(B * C * !D * Y)	-0.00001	-0.00001	-0.00001
	(B * C * !D * Y)	0.00001	0.00002	0.00002
	(B * C * !D * Y)	0.00021	0.00022	0.00022
	(B * !C * D * Y)	-0.00018	-0.00018	-0.00017
	(B * !C * D * Y)	-0.00001	-0.00001	-0.00001
	(B * !C * D * Y)	0.00001	0.00002	0.00002
	(B * !C * D * Y)	0.00022	0.00022	0.00022
	(B * !C * !D * Y)	-0.00018	-0.00018	-0.00018
	(B * !C * !D * Y)	-0.00001	-0.00001	-0.00001
	(B * !C * !D * Y)	0.00001	0.00002	0.00002
	(B * !C * !D * Y)	0.00022	0.00022	0.00022
	(!B * C * D * Y)	-0.00018	-0.00018	-0.00017
	(!B * C * D * Y)	-0.00001	-0.00001	-0.00001
	(!B * C * D * Y)	0.00001	0.00001	0.00001
	(!B * C * D * Y)	0.00022	0.00022	0.00023
	(!B * !D * Y)	-0.00018	-0.00018	-0.00018
	(!B * !D * Y)	-0.00001	-0.00001	-0.00001
	(!B * !D * Y)	0.00001	0.00002	0.00002
	(!B * !D * Y)	0.00022	0.00022	0.00022
	(!B * !C * D * Y)	-0.00018	-0.00018	-0.00018
	(!B * !C * D * Y)	-0.00001	-0.00001	-0.00001
	(!B * !C * D * Y)	0.00001	0.00002	0.00002
	(!B * !C * D * Y)	0.00022	0.00022	0.00022

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X0P7H7H	(B * C * !D * Y)	0.00017	0.00018	0.00018
	(B * C * !D * Y)	0.00001	0.00001	0.00001
	(B * C * !D * Y)	-0.00002	-0.00002	-0.00001
	(B * C * !D * Y)	-0.00022	-0.00020	-0.00019
	(B * !C * D * Y)	0.00017	0.00018	0.00018
	(B * !C * D * Y)	0.00001	0.00001	0.00001
	(B * !C * D * Y)	-0.00002	-0.00002	-0.00001
	(B * !C * D * Y)	-0.00022	-0.00021	-0.00019
	(B * !C * !D * Y)	0.00018	0.00018	0.00018
	(B * !C * !D * Y)	0.00001	0.00001	0.00001
	(B * !C * !D * Y)	-0.00002	-0.00002	-0.00001
	(B * !C * !D * Y)	-0.00022	-0.00021	-0.00019
	(!B * C * D * Y)	0.00017	0.00018	0.00018
	(!B * C * D * Y)	0.00001	0.00001	0.00001
	(!B * C * D * Y)	-0.00001	-0.00001	-0.00001
	(!B * C * D * Y)	-0.00023	-0.00021	-0.00020
	(!B * !D * Y)	0.00018	0.00018	0.00018
	(!B * !D * Y)	0.00001	0.00001	0.00001
	(!B * !D * Y)	-0.00002	-0.00002	-0.00001
	(!B * !D * Y)	-0.00022	-0.00021	-0.00020
	(!B * !C * D * Y)	0.00018	0.00018	0.00018
	(!B * !C * D * Y)	0.00001	0.00001	0.00001
	(!B * !C * D * Y)	-0.00002	-0.00002	-0.00001
	(!B * !C * D * Y)	-0.00022	-0.00021	-0.00020

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X0P7H7H	(A * C * !D * Y)	-0.00015	-0.00015	-0.00015
	(A * C * !D * Y)	-0.00001	-0.00001	-0.00001
	(A * C * !D * Y)	0.00002	0.00002	0.00002
	(A * C * !D * Y)	0.00020	0.00020	0.00020
	(A * !C * D * Y)	-0.00015	-0.00015	-0.00015
	(A * !C * D * Y)	-0.00001	-0.00001	-0.00001
	(A * !C * D * Y)	0.00001	0.00002	0.00002
	(A * !C * D * Y)	0.00021	0.00021	0.00021
	(A * !C * !D * Y)	-0.00015	-0.00015	-0.00015
	(A * !C * !D * Y)	-0.00001	-0.00001	-0.00001
	(A * !C * !D * Y)	0.00001	0.00002	0.00002
	(A * !C * !D * Y)	0.00020	0.00020	0.00021
	(!A * C * D * Y)	-0.00015	-0.00015	-0.00015
	(!A * C * D * Y)	-0.00001	-0.00001	-0.00001
	(!A * C * D * Y)	0.00005	0.00005	0.00005
	(!A * C * D * Y)	0.00007	0.00007	0.00007
	(!A * C * !D * Y)	-0.00015	-0.00015	-0.00015
	(!A * C * !D * Y)	-0.00001	-0.00001	-0.00001
	(!A * C * !D * Y)	0.00005	0.00005	0.00005
	(!A * C * !D * Y)	0.00007	0.00007	0.00007
	(!A * !C * D * Y)	-0.00015	-0.00015	-0.00015
	(!A * !C * D * Y)	-0.00001	-0.00001	-0.00001
	(!A * !C * D * Y)	0.00005	0.00006	0.00006
	(!A * !C * D * Y)	0.00007	0.00007	0.00007
	(!A * !C * !D * Y)	-0.00015	-0.00015	-0.00015
	(!A * !C * !D * Y)	-0.00001	-0.00001	-0.00001
	(!A * !C * !D * Y)	0.00006	0.00006	0.00006
	(!A * !C * !D * Y)	0.00007	0.00007	0.00007

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X0P7H7H	(A * C * !D * Y)	0.00015	0.00015	0.00015
	(A * C * !D * Y)	0.00001	0.00001	0.00001
	(A * C * !D * Y)	-0.00002	-0.00002	-0.00001
	(A * C * !D * Y)	-0.00020	-0.00019	-0.00016
	(A * !C * D * Y)	0.00015	0.00015	0.00015
	(A * !C * D * Y)	0.00001	0.00001	0.00001
	(A * !C * D * Y)	-0.00002	-0.00002	-0.00001
	(A * !C * D * Y)	-0.00021	-0.00020	-0.00018
	(A * !C * !D * Y)	0.00015	0.00015	0.00015
	(A * !C * !D * Y)	0.00001	0.00001	0.00001
	(A * !C * !D * Y)	-0.00002	-0.00002	-0.00001
	(A * !C * !D * Y)	-0.00021	-0.00020	-0.00018
	(!A * C * D * Y)	0.00015	0.00015	0.00015
	(!A * C * D * Y)	0.00001	0.00001	0.00001
	(!A * C * D * Y)	-0.00005	-0.00005	-0.00005
	(!A * C * D * Y)	-0.00007	-0.00007	-0.00007
	(!A * C * !D * Y)	0.00015	0.00015	0.00015
	(!A * C * !D * Y)	0.00001	0.00001	0.00001
	(!A * C * !D * Y)	-0.00005	-0.00005	-0.00005
	(!A * C * !D * Y)	-0.00007	-0.00007	-0.00007
	(!A * !C * D * Y)	0.00015	0.00015	0.00015
	(!A * !C * D * Y)	0.00001	0.00001	0.00001
	(!A * !C * D * Y)	-0.00006	-0.00006	-0.00005
	(!A * !C * D * Y)	-0.00007	-0.00007	-0.00007
	(!A * !C * !D * Y)	0.00015	0.00015	0.00015
	(!A * !C * !D * Y)	0.00001	0.00001	0.00001
	(!A * !C * !D * Y)	-0.00006	-0.00006	-0.00006
	(!A * !C * !D * Y)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X0P7H7H	(A * B * !D * Y)	-0.00018	-0.00018	-0.00018
	(A * B * !D * Y)	-0.00001	-0.00001	-0.00001
	(A * B * !D * Y)	0.00001	0.00001	0.00002
	(A * B * !D * Y)	0.00018	0.00018	0.00018
	(!B * D * Y)	-0.00018	-0.00018	-0.00018
	(!B * D * Y)	-0.00001	-0.00001	-0.00001
	(!B * D * Y)	0.00004	0.00005	0.00005
	(!B * D * Y)	0.00005	0.00005	0.00005
	(!B * !D * Y)	-0.00018	-0.00018	-0.00018
	(!B * !D * Y)	-0.00001	-0.00001	-0.00001
	(!B * !D * Y)	0.00005	0.00005	0.00005
	(!B * !D * Y)	0.00005	0.00005	0.00005
	(!A * B * D * Y)	-0.00018	-0.00018	-0.00018
	(!A * B * D * Y)	-0.00001	-0.00001	-0.00001
	(!A * B * D * Y)	0.00004	0.00005	0.00005
	(!A * B * D * Y)	0.00005	0.00005	0.00005
	(!A * B * !D * Y)	-0.00018	-0.00018	-0.00018
	(!A * B * !D * Y)	-0.00001	-0.00001	-0.00001
	(!A * B * !D * Y)	0.00005	0.00005	0.00005
	(!A * B * !D * Y)	0.00005	0.00005	0.00005

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X0P7H7H	(A * B * !D * Y)	0.00018	0.00018	0.00019
	(A * B * !D * Y)	0.00001	0.00001	0.00001
	(A * B * !D * Y)	-0.00002	-0.00001	-0.00001
	(A * B * !D * Y)	-0.00018	-0.00017	-0.00015
	(!B * D * Y)	0.00018	0.00018	0.00018
	(!B * D * Y)	0.00001	0.00001	0.00001
	(!B * D * Y)	-0.00004	-0.00004	-0.00004
	(!B * D * Y)	-0.00005	-0.00005	-0.00005
	(!B * !D * Y)	0.00018	0.00018	0.00018
	(!B * !D * Y)	0.00001	0.00001	0.00001
	(!B * !D * Y)	-0.00005	-0.00005	-0.00005
	(!B * !D * Y)	-0.00005	-0.00005	-0.00005
	(!A * B * D * Y)	0.00018	0.00018	0.00018
	(!A * B * D * Y)	0.00001	0.00001	0.00001
	(!A * B * D * Y)	-0.00004	-0.00004	-0.00004
	(!A * B * D * Y)	-0.00005	-0.00005	-0.00005
	(!A * B * !D * Y)	0.00018	0.00018	0.00018
	(!A * B * !D * Y)	0.00001	0.00001	0.00001
	(!A * B * !D * Y)	-0.00005	-0.00005	-0.00005
	(!A * B * !D * Y)	-0.00005	-0.00005	-0.00005

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X0P7H7H	(!C * Y)	-0.00028	-0.00028	-0.00028
	(!C * Y)	-0.00001	-0.00001	-0.00001
	(!C * Y)	0.00003	0.00003	0.00003
	(!C * Y)	0.00006	0.00007	0.00007
	(!B * C * Y)	-0.00028	-0.00028	-0.00027
	(!B * C * Y)	-0.00001	-0.00001	-0.00001
	(!B * C * Y)	0.00003	0.00003	0.00003
	(!B * C * Y)	0.00006	0.00007	0.00007
	(!A * B * C * Y)	-0.00028	-0.00028	-0.00027
	(!A * B * C * Y)	-0.00001	-0.00001	-0.00001
	(!A * B * C * Y)	0.00003	0.00003	0.00003
	(!A * B * C * Y)	0.00006	0.00006	0.00007

Passive power(pJ) for D falling (conditional):

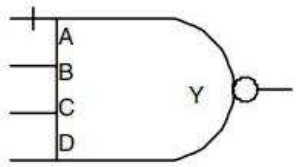
Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X0P7H7H	(!C * Y)	0.00028	0.00028	0.00028
	(!C * Y)	0.00001	0.00001	0.00001
	(!C * Y)	-0.00003	-0.00003	-0.00003
	(!C * Y)	-0.00007	-0.00007	-0.00006
	(!B * C * Y)	0.00028	0.00028	0.00028
	(!B * C * Y)	0.00001	0.00001	0.00001
	(!B * C * Y)	-0.00003	-0.00003	-0.00003
	(!B * C * Y)	-0.00007	-0.00007	-0.00006
	(!A * B * C * Y)	0.00028	0.00028	0.00028
	(!A * B * C * Y)	0.00001	0.00001	0.00001
	(!A * B * C * Y)	-0.00003	-0.00003	-0.00003
	(!A * B * C * Y)	-0.00007	-0.00006	-0.00006

NAND4X1H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND4 cell provides a logical NAND of four inputs (A, B, C, D). The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A	B	C	D	Y
0	x	x	x	1
1	0	x	x	1
1	1	0	x	1
1	1	1	0	1
1	1	1	1	0

Footprint

Cell Name	Area
NAND4X1H7H	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A	B	C	D	Y
NAND4X1H7H	0.00094	0.00089	0.00094	0.00103	0.01595

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND4X1H7H	0.00000	0.00728	0.02490

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4X1H7H	A->Y (FR)	0.03230	0.14346	0.49953
	B->Y (FR)	0.03059	0.13978	0.49535
	C->Y (FR)	0.02901	0.13642	0.49188
	D->Y (FR)	0.02689	0.13235	0.48753

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4X1H7H	A->Y (RF)	0.07813	0.24578	0.70582
	B->Y (RF)	0.07408	0.24485	0.72433
	C->Y (RF)	0.06997	0.24374	0.74372
	D->Y (RF)	0.06280	0.23043	0.72088

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4X1H7H	A	0.00149	0.00153	0.00156
	A	-0.00016	-0.00016	-0.00015
	A	0.00017	0.00017	0.00017
	A	-0.00012	-0.00009	-0.00007
	B	0.00133	0.00137	0.00140
	B	-0.00016	-0.00015	-0.00014
	B	0.00012	0.00013	0.00013
	B	-0.00009	-0.00006	-0.00004
	C	0.00121	0.00124	0.00127
	C	-0.00016	-0.00016	-0.00015
	C	0.00005	0.00008	0.00008
	C	-0.00007	-0.00004	-0.00001
	D	0.00106	0.00111	0.00115
	D	-0.00016	-0.00015	-0.00015
	D	0.00002	0.00003	0.00003
	D	-0.00010	-0.00005	-0.00001

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4X1H7H	A	-0.00013	-0.00010	-0.00007
	A	0.00015	0.00016	0.00016
	A	-0.00017	-0.00017	-0.00017
	A	0.00162	0.00165	0.00168
	B	-0.00012	-0.00009	-0.00007
	B	0.00015	0.00016	0.00016
	B	-0.00013	-0.00013	-0.00012
	B	0.00139	0.00142	0.00144
	C	-0.00013	-0.00010	-0.00007
	C	0.00015	0.00016	0.00016
	C	-0.00008	-0.00008	-0.00005
	C	0.00119	0.00122	0.00125
	D	-0.00015	-0.00011	-0.00007
	D	0.00015	0.00016	0.00016
	D	-0.00003	-0.00003	-0.00002
	D	0.00101	0.00106	0.00110

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X1H7H	(B * C * !D * Y)	-0.00020	-0.00020	-0.00020
	(B * C * !D * Y)	-0.00001	-0.00001	-0.00001
	(B * C * !D * Y)	0.00002	0.00002	0.00002
	(B * C * !D * Y)	0.00022	0.00022	0.00023
	(B * !C * D * Y)	-0.00020	-0.00020	-0.00020
	(B * !C * D * Y)	-0.00001	-0.00001	-0.00001
	(B * !C * D * Y)	0.00002	0.00002	0.00002
	(B * !C * D * Y)	0.00022	0.00023	0.00023
	(B * !C * !D * Y)	-0.00020	-0.00020	-0.00020
	(B * !C * !D * Y)	-0.00001	-0.00001	-0.00001
	(B * !C * !D * Y)	0.00002	0.00002	0.00002
	(B * !C * !D * Y)	0.00023	0.00023	0.00023
	(!B * C * D * Y)	-0.00020	-0.00020	-0.00020
	(!B * C * D * Y)	-0.00001	-0.00001	-0.00001
	(!B * C * D * Y)	0.00002	0.00002	0.00002
	(!B * C * D * Y)	0.00023	0.00023	0.00024
	(!B * !D * Y)	-0.00020	-0.00020	-0.00020
	(!B * !D * Y)	-0.00001	-0.00001	-0.00001
	(!B * !D * Y)	0.00002	0.00002	0.00002
	(!B * !D * Y)	0.00023	0.00023	0.00023
	(!B * !C * D * Y)	-0.00020	-0.00020	-0.00020
	(!B * !C * D * Y)	-0.00001	-0.00001	-0.00001
	(!B * !C * D * Y)	0.00002	0.00002	0.00002
	(!B * !C * D * Y)	0.00023	0.00023	0.00023

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X1H7H	(B * C * !D * Y)	0.00020	0.00020	0.00020
	(B * C * !D * Y)	0.00001	0.00001	0.00001
	(B * C * !D * Y)	-0.00002	-0.00002	-0.00002
	(B * C * !D * Y)	-0.00023	-0.00021	-0.00019
	(B * !C * D * Y)	0.00020	0.00020	0.00020
	(B * !C * D * Y)	0.00001	0.00001	0.00001
	(B * !C * D * Y)	-0.00002	-0.00002	-0.00002
	(B * !C * D * Y)	-0.00023	-0.00022	-0.00019
	(B * !C * !D * Y)	0.00020	0.00020	0.00020
	(B * !C * !D * Y)	0.00001	0.00001	0.00001
	(B * !C * !D * Y)	-0.00002	-0.00002	-0.00002
	(B * !C * !D * Y)	-0.00023	-0.00022	-0.00020
	(!B * C * D * Y)	0.00020	0.00020	0.00020
	(!B * C * D * Y)	0.00001	0.00001	0.00001
	(!B * C * D * Y)	-0.00002	-0.00002	-0.00002
	(!B * C * D * Y)	-0.00023	-0.00022	-0.00021
	(!B * !D * Y)	0.00020	0.00020	0.00020
	(!B * !D * Y)	0.00001	0.00001	0.00001
	(!B * !D * Y)	-0.00002	-0.00002	-0.00002
	(!B * !D * Y)	-0.00023	-0.00022	-0.00021
	(!B * !C * D * Y)	0.00020	0.00020	0.00020
	(!B * !C * D * Y)	0.00001	0.00001	0.00001
	(!B * !C * D * Y)	-0.00002	-0.00002	-0.00002
	(!B * !C * D * Y)	-0.00023	-0.00022	-0.00021

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X1H7H	(A * C * !D * Y)	-0.00018	-0.00017	-0.00017
	(A * C * !D * Y)	-0.00001	-0.00001	-0.00001
	(A * C * !D * Y)	0.00002	0.00002	0.00002
	(A * C * !D * Y)	0.00020	0.00021	0.00021
	(A * !C * D * Y)	-0.00018	-0.00017	-0.00017
	(A * !C * D * Y)	-0.00001	-0.00001	-0.00001
	(A * !C * D * Y)	0.00002	0.00002	0.00002
	(A * !C * D * Y)	0.00021	0.00021	0.00022
	(A * !C * !D * Y)	-0.00018	-0.00017	-0.00017
	(A * !C * !D * Y)	-0.00001	-0.00001	-0.00001
	(A * !C * !D * Y)	0.00002	0.00002	0.00002
	(A * !C * !D * Y)	0.00021	0.00021	0.00021
	(!A * C * D * Y)	-0.00018	-0.00017	-0.00017
	(!A * C * D * Y)	-0.00001	-0.00001	-0.00001
	(!A * C * D * Y)	0.00005	0.00006	0.00006
	(!A * C * D * Y)	0.00006	0.00006	0.00006
	(!A * C * !D * Y)	-0.00018	-0.00017	-0.00017
	(!A * C * !D * Y)	-0.00001	-0.00001	-0.00001
	(!A * C * !D * Y)	0.00006	0.00006	0.00006
	(!A * C * !D * Y)	0.00006	0.00006	0.00006
	(!A * !C * D * Y)	-0.00018	-0.00017	-0.00017
	(!A * !C * D * Y)	-0.00001	-0.00001	-0.00001
	(!A * !C * D * Y)	0.00006	0.00006	0.00006
	(!A * !C * D * Y)	0.00006	0.00006	0.00006
	(!A * !C * !D * Y)	-0.00018	-0.00017	-0.00017
	(!A * !C * !D * Y)	-0.00001	-0.00001	0.00000
	(!A * !C * !D * Y)	0.00006	0.00006	0.00006
	(!A * !C * !D * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X1H7H	(A * C * !D * Y)	0.00017	0.00017	0.00018
	(A * C * !D * Y)	0.00001	0.00001	0.00001
	(A * C * !D * Y)	-0.00002	-0.00002	-0.00002
	(A * C * !D * Y)	-0.00021	-0.00019	-0.00017
	(A * !C * D * Y)	0.00017	0.00017	0.00018
	(A * !C * D * Y)	0.00001	0.00001	0.00001
	(A * !C * D * Y)	-0.00002	-0.00002	-0.00002
	(A * !C * D * Y)	-0.00021	-0.00020	-0.00018
	(A * !C * !D * Y)	0.00017	0.00017	0.00018
	(A * !C * !D * Y)	0.00001	0.00001	0.00001
	(A * !C * !D * Y)	-0.00002	-0.00002	-0.00002
	(A * !C * !D * Y)	-0.00021	-0.00020	-0.00019
	(!A * C * D * Y)	0.00017	0.00018	0.00018
	(!A * C * D * Y)	0.00001	0.00001	0.00001
	(!A * C * D * Y)	-0.00005	-0.00005	-0.00005
	(!A * C * D * Y)	-0.00006	-0.00006	-0.00006
	(!A * C * !D * Y)	0.00017	0.00017	0.00018
	(!A * C * !D * Y)	0.00001	0.00001	0.00001
	(!A * C * !D * Y)	-0.00006	-0.00006	-0.00006
	(!A * C * !D * Y)	-0.00006	-0.00006	-0.00006
	(!A * !C * D * Y)	0.00017	0.00018	0.00018
	(!A * !C * D * Y)	0.00001	0.00001	0.00001
	(!A * !C * D * Y)	-0.00006	-0.00006	-0.00006
	(!A * !C * D * Y)	-0.00006	-0.00006	-0.00006
	(!A * !C * !D * Y)	0.00017	0.00017	0.00018
	(!A * !C * !D * Y)	0.00001	0.00001	0.00001
	(!A * !C * !D * Y)	-0.00006	-0.00006	-0.00006
	(!A * !C * !D * Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X1H7H	(A * B * !D * Y)	-0.00020	-0.00020	-0.00020
	(A * B * !D * Y)	-0.00001	-0.00001	-0.00001
	(A * B * !D * Y)	0.00002	0.00002	0.00002
	(A * B * !D * Y)	0.00019	0.00019	0.00020
	(!B * D * Y)	-0.00020	-0.00020	-0.00020
	(!B * D * Y)	-0.00001	-0.00001	-0.00001
	(!B * D * Y)	0.00005	0.00005	0.00005
	(!B * D * Y)	0.00005	0.00005	0.00005
	(!B * !D * Y)	-0.00020	-0.00020	-0.00020
	(!B * !D * Y)	-0.00001	-0.00001	-0.00001
	(!B * !D * Y)	0.00006	0.00006	0.00006
	(!B * !D * Y)	0.00005	0.00005	0.00005
	(!A * B * D * Y)	-0.00020	-0.00020	-0.00019
	(!A * B * D * Y)	-0.00001	-0.00001	-0.00001
	(!A * B * D * Y)	0.00005	0.00005	0.00005
	(!A * B * D * Y)	0.00005	0.00005	0.00005
	(!A * B * !D * Y)	-0.00020	-0.00020	-0.00020
	(!A * B * !D * Y)	-0.00001	-0.00001	-0.00001
	(!A * B * !D * Y)	0.00006	0.00006	0.00006
	(!A * B * !D * Y)	0.00005	0.00005	0.00005

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X1H7H	(A * B * !D * Y)	0.00020	0.00020	0.00021
	(A * B * !D * Y)	0.00001	0.00001	0.00001
	(A * B * !D * Y)	-0.00002	-0.00002	-0.00002
	(A * B * !D * Y)	-0.00019	-0.00018	-0.00016
	(!B * D * Y)	0.00020	0.00020	0.00020
	(!B * D * Y)	0.00001	0.00001	0.00001
	(!B * D * Y)	-0.00005	-0.00005	-0.00005
	(!B * D * Y)	-0.00005	-0.00005	-0.00005
	(!B * !D * Y)	0.00020	0.00020	0.00020
	(!B * !D * Y)	0.00001	0.00001	0.00001
	(!B * !D * Y)	-0.00006	-0.00006	-0.00006
	(!B * !D * Y)	-0.00005	-0.00005	-0.00005
	(!A * B * D * Y)	0.00020	0.00020	0.00020
	(!A * B * D * Y)	0.00001	0.00001	0.00001
	(!A * B * D * Y)	-0.00005	-0.00005	-0.00005
	(!A * B * D * Y)	-0.00005	-0.00005	-0.00005
	(!A * B * !D * Y)	0.00020	0.00020	0.00020
	(!A * B * !D * Y)	0.00001	0.00001	0.00001
	(!A * B * !D * Y)	-0.00006	-0.00006	-0.00006
	(!A * B * !D * Y)	-0.00005	-0.00005	-0.00005

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X1H7H	(!C * Y)	-0.00031	-0.00030	-0.00030
	(!C * Y)	-0.00001	-0.00001	-0.00001
	(!C * Y)	0.00003	0.00003	0.00003
	(!C * Y)	0.00006	0.00006	0.00006
	(!B * C * Y)	-0.00031	-0.00030	-0.00030
	(!B * C * Y)	-0.00001	-0.00001	-0.00001
	(!B * C * Y)	0.00003	0.00003	0.00003
	(!B * C * Y)	0.00006	0.00006	0.00007
	(!A * B * C * Y)	-0.00031	-0.00030	-0.00030
	(!A * B * C * Y)	-0.00001	-0.00001	-0.00001
	(!A * B * C * Y)	0.00003	0.00003	0.00003
	(!A * B * C * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for D falling (conditional):

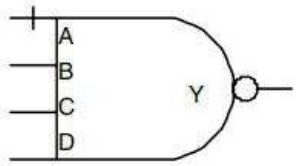
Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X1H7H	(!C * Y)	0.00030	0.00030	0.00031
	(!C * Y)	0.00001	0.00001	0.00001
	(!C * Y)	-0.00003	-0.00003	-0.00003
	(!C * Y)	-0.00006	-0.00006	-0.00006
	(!B * C * Y)	0.00030	0.00030	0.00031
	(!B * C * Y)	0.00001	0.00001	0.00001
	(!B * C * Y)	-0.00003	-0.00003	-0.00003
	(!B * C * Y)	-0.00006	-0.00006	-0.00006
	(!A * B * C * Y)	0.00030	0.00030	0.00031
	(!A * B * C * Y)	0.00001	0.00001	0.00001
	(!A * B * C * Y)	-0.00003	-0.00003	-0.00003
	(!A * B * C * Y)	-0.00006	-0.00006	-0.00006

NAND4X1P4H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND4 cell provides a logical NAND of four inputs (A, B, C, D). The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A	B	C	D	Y
0	x	x	x	1
1	0	x	x	1
1	1	0	x	1
1	1	1	0	1
1	1	1	1	0

Footprint

Cell Name	Area
NAND4X1P4H7H	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A	B	C	D	Y
NAND4X1P4H7H	0.00099	0.00095	0.00099	0.00110	0.01803

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND4X1P4H7H	0.00000	0.00890	0.02450

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4X1P4H7H	A->Y (FR)	0.03078	0.14178	0.49908
	B->Y (FR)	0.02917	0.13824	0.49468
	C->Y (FR)	0.02756	0.13489	0.49155
	D->Y (FR)	0.02561	0.13094	0.48793

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4X1P4H7H	A->Y (RF)	0.07526	0.24449	0.70980
	B->Y (RF)	0.07141	0.24340	0.72754
	C->Y (RF)	0.06694	0.24166	0.74540
	D->Y (RF)	0.05988	0.22800	0.72134

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4X1P4H7H	A	0.00163	0.00169	0.00172
	A	-0.00018	-0.00018	-0.00018
	A	0.00019	0.00019	0.00020
	A	-0.00012	-0.00009	-0.00007
	B	0.00147	0.00151	0.00154
	B	-0.00018	-0.00018	-0.00016
	B	0.00014	0.00015	0.00015
	B	-0.00009	-0.00006	-0.00003
	C	0.00133	0.00137	0.00140
	C	-0.00018	-0.00018	-0.00018
	C	0.00007	0.00009	0.00009
	C	-0.00008	-0.00004	-0.00001
	D	0.00118	0.00122	0.00127
	D	-0.00018	-0.00018	-0.00017
	D	0.00003	0.00003	0.00004
	D	-0.00011	-0.00005	-0.00001

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4X1P4H7H	A	-0.00015	-0.00011	-0.00008
	A	0.00018	0.00018	0.00018
	A	-0.00020	-0.00019	-0.00019
	A	0.00178	0.00181	0.00184
	B	-0.00014	-0.00011	-0.00008
	B	0.00018	0.00018	0.00019
	B	-0.00015	-0.00015	-0.00014
	B	0.00152	0.00155	0.00158
	C	-0.00014	-0.00011	-0.00008
	C	0.00018	0.00018	0.00018
	C	-0.00009	-0.00009	-0.00007
	C	0.00130	0.00134	0.00137
	D	-0.00017	-0.00013	-0.00008
	D	0.00018	0.00018	0.00018
	D	-0.00003	-0.00003	-0.00003
	D	0.00111	0.00115	0.00120

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X1P4H7H	(B * C * !D * Y)	-0.00022	-0.00022	-0.00022
	(B * C * !D * Y)	-0.00001	-0.00001	-0.00001
	(B * C * !D * Y)	0.00002	0.00002	0.00002
	(B * C * !D * Y)	0.00024	0.00024	0.00024
	(B * !C * D * Y)	-0.00022	-0.00022	-0.00022
	(B * !C * D * Y)	-0.00001	-0.00001	-0.00001
	(B * !C * D * Y)	0.00002	0.00002	0.00002
	(B * !C * D * Y)	0.00024	0.00024	0.00024
	(B * !C * !D * Y)	-0.00022	-0.00022	-0.00022
	(B * !C * !D * Y)	-0.00001	-0.00001	-0.00001
	(B * !C * !D * Y)	0.00002	0.00002	0.00002
	(B * !C * !D * Y)	0.00024	0.00024	0.00024
	(!B * C * D * Y)	-0.00022	-0.00022	-0.00022
	(!B * C * D * Y)	-0.00001	-0.00001	-0.00001
	(!B * C * D * Y)	0.00002	0.00002	0.00002
	(!B * C * D * Y)	0.00025	0.00025	0.00025
	(!B * !D * Y)	-0.00022	-0.00022	-0.00022
	(!B * !D * Y)	-0.00001	-0.00001	-0.00001
	(!B * !D * Y)	0.00002	0.00002	0.00002
	(!B * !D * Y)	0.00025	0.00025	0.00025
	(!B * !C * D * Y)	-0.00022	-0.00022	-0.00022
	(!B * !C * D * Y)	-0.00001	-0.00001	-0.00001
	(!B * !C * D * Y)	0.00002	0.00002	0.00002
	(!B * !C * D * Y)	0.00025	0.00025	0.00025

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X1P4H7H	(B * C * !D * Y)	0.00022	0.00022	0.00022
	(B * C * !D * Y)	0.00001	0.00001	0.00001
	(B * C * !D * Y)	-0.00002	-0.00002	-0.00002
	(B * C * !D * Y)	-0.00024	-0.00023	-0.00021
	(B * !C * D * Y)	0.00022	0.00022	0.00022
	(B * !C * D * Y)	0.00001	0.00001	0.00001
	(B * !C * D * Y)	-0.00002	-0.00002	-0.00002
	(B * !C * D * Y)	-0.00024	-0.00023	-0.00021
	(B * !C * !D * Y)	0.00022	0.00022	0.00022
	(B * !C * !D * Y)	0.00001	0.00001	0.00001
	(B * !C * !D * Y)	-0.00002	-0.00002	-0.00002
	(B * !C * !D * Y)	-0.00024	-0.00023	-0.00021
	(!B * C * D * Y)	0.00022	0.00022	0.00022
	(!B * C * D * Y)	0.00001	0.00001	0.00001
	(!B * C * D * Y)	-0.00002	-0.00002	-0.00002
	(!B * C * D * Y)	-0.00025	-0.00024	-0.00022
	(!B * !D * Y)	0.00022	0.00022	0.00022
	(!B * !D * Y)	0.00001	0.00001	0.00001
	(!B * !D * Y)	-0.00002	-0.00002	-0.00002
	(!B * !D * Y)	-0.00025	-0.00024	-0.00022
	(!B * !C * D * Y)	0.00022	0.00022	0.00022
	(!B * !C * D * Y)	0.00001	0.00001	0.00001
	(!B * !C * D * Y)	-0.00002	-0.00002	-0.00002
	(!B * !C * D * Y)	-0.00025	-0.00024	-0.00022

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X1P4H7H	(A * C * !D * Y)	-0.00020	-0.00020	-0.00020
	(A * C * !D * Y)	-0.00001	-0.00001	-0.00001
	(A * C * !D * Y)	0.00001	0.00002	0.00002
	(A * C * !D * Y)	0.00021	0.00022	0.00022
	(A * !C * D * Y)	-0.00020	-0.00020	-0.00020
	(A * !C * D * Y)	-0.00001	-0.00001	-0.00001
	(A * !C * D * Y)	0.00002	0.00002	0.00002
	(A * !C * D * Y)	0.00022	0.00022	0.00023
	(A * !C * !D * Y)	-0.00020	-0.00020	-0.00020
	(A * !C * !D * Y)	-0.00001	-0.00001	-0.00001
	(A * !C * !D * Y)	0.00002	0.00002	0.00002
	(A * !C * !D * Y)	0.00022	0.00022	0.00022
	(!A * C * D * Y)	-0.00020	-0.00020	-0.00020
	(!A * C * D * Y)	-0.00001	-0.00001	-0.00001
	(!A * C * D * Y)	0.00006	0.00006	0.00006
	(!A * C * D * Y)	0.00006	0.00006	0.00007
	(!A * C * !D * Y)	-0.00020	-0.00020	-0.00020
	(!A * C * !D * Y)	-0.00001	-0.00001	-0.00001
	(!A * C * !D * Y)	0.00007	0.00007	0.00007
	(!A * C * !D * Y)	0.00006	0.00006	0.00007
	(!A * !C * D * Y)	-0.00020	-0.00020	-0.00020
	(!A * !C * D * Y)	-0.00001	-0.00001	-0.00001
	(!A * !C * D * Y)	0.00007	0.00007	0.00007
	(!A * !C * D * Y)	0.00006	0.00006	0.00006
	(!A * !C * !D * Y)	-0.00020	-0.00020	-0.00020
	(!A * !C * !D * Y)	-0.00001	-0.00001	0.00000
	(!A * !C * !D * Y)	0.00007	0.00007	0.00007
	(!A * !C * !D * Y)	0.00006	0.00006	0.00007

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X1P4H7H	(A * C * !D * Y)	0.00020	0.00020	0.00020
	(A * C * !D * Y)	0.00001	0.00001	0.00001
	(A * C * !D * Y)	-0.00002	-0.00002	-0.00001
	(A * C * !D * Y)	-0.00022	-0.00020	-0.00017
	(A * !C * D * Y)	0.00020	0.00020	0.00020
	(A * !C * D * Y)	0.00001	0.00001	0.00001
	(A * !C * D * Y)	-0.00002	-0.00002	-0.00002
	(A * !C * D * Y)	-0.00022	-0.00021	-0.00019
	(A * !C * !D * Y)	0.00020	0.00020	0.00020
	(A * !C * !D * Y)	0.00001	0.00001	0.00001
	(A * !C * !D * Y)	-0.00002	-0.00002	-0.00002
	(A * !C * !D * Y)	-0.00022	-0.00021	-0.00019
	(!A * C * D * Y)	0.00020	0.00020	0.00020
	(!A * C * D * Y)	0.00001	0.00001	0.00001
	(!A * C * D * Y)	-0.00006	-0.00006	-0.00006
	(!A * C * D * Y)	-0.00006	-0.00006	-0.00006
	(!A * C * !D * Y)	0.00020	0.00020	0.00020
	(!A * C * !D * Y)	0.00001	0.00001	0.00001
	(!A * C * !D * Y)	-0.00007	-0.00007	-0.00007
	(!A * C * !D * Y)	-0.00007	-0.00006	-0.00006
	(!A * !C * D * Y)	0.00020	0.00020	0.00020
	(!A * !C * D * Y)	0.00001	0.00001	0.00001
	(!A * !C * D * Y)	-0.00007	-0.00007	-0.00007
	(!A * !C * D * Y)	-0.00006	-0.00006	-0.00006
	(!A * !C * !D * Y)	0.00020	0.00020	0.00020
	(!A * !C * !D * Y)	0.00001	0.00001	0.00001
	(!A * !C * !D * Y)	-0.00007	-0.00007	-0.00007
	(!A * !C * !D * Y)	-0.00007	-0.00006	-0.00006

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X1P4H7H	(A * B * !D * Y)	-0.00022	-0.00022	-0.00022
	(A * B * !D * Y)	-0.00001	-0.00001	-0.00001
	(A * B * !D * Y)	0.00002	0.00002	0.00002
	(A * B * !D * Y)	0.00021	0.00021	0.00021
	(!B * D * Y)	-0.00022	-0.00022	-0.00022
	(!B * D * Y)	-0.00001	-0.00001	-0.00001
	(!B * D * Y)	0.00006	0.00006	0.00006
	(!B * D * Y)	0.00005	0.00006	0.00006
	(!B * !D * Y)	-0.00022	-0.00022	-0.00022
	(!B * !D * Y)	-0.00001	-0.00001	-0.00001
	(!B * !D * Y)	0.00007	0.00007	0.00007
	(!B * !D * Y)	0.00005	0.00006	0.00006
	(!A * B * D * Y)	-0.00022	-0.00022	-0.00022
	(!A * B * D * Y)	-0.00001	-0.00001	-0.00001
	(!A * B * D * Y)	0.00006	0.00006	0.00006
	(!A * B * D * Y)	0.00006	0.00006	0.00006
	(!A * B * !D * Y)	-0.00022	-0.00022	-0.00021
	(!A * B * !D * Y)	-0.00001	-0.00001	-0.00001
	(!A * B * !D * Y)	0.00007	0.00007	0.00007
	(!A * B * !D * Y)	0.00005	0.00006	0.00006

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X1P4H7H	(A * B * !D * Y)	0.00022	0.00022	0.00023
	(A * B * !D * Y)	0.00001	0.00001	0.00001
	(A * B * !D * Y)	-0.00002	-0.00002	-0.00002
	(A * B * !D * Y)	-0.00021	-0.00020	-0.00017
	(!B * D * Y)	0.00022	0.00022	0.00022
	(!B * D * Y)	0.00001	0.00001	0.00001
	(!B * D * Y)	-0.00006	-0.00006	-0.00006
	(!B * D * Y)	-0.00006	-0.00006	-0.00005
	(!B * !D * Y)	0.00022	0.00022	0.00022
	(!B * !D * Y)	0.00001	0.00001	0.00001
	(!B * !D * Y)	-0.00007	-0.00007	-0.00007
	(!B * !D * Y)	-0.00006	-0.00006	-0.00005
	(!A * B * D * Y)	0.00022	0.00022	0.00022
	(!A * B * D * Y)	0.00001	0.00001	0.00001
	(!A * B * D * Y)	-0.00006	-0.00006	-0.00006
	(!A * B * D * Y)	-0.00006	-0.00006	-0.00005
	(!A * B * !D * Y)	0.00022	0.00022	0.00022
	(!A * B * !D * Y)	0.00001	0.00001	0.00001
	(!A * B * !D * Y)	-0.00007	-0.00007	-0.00007
	(!A * B * !D * Y)	-0.00006	-0.00006	-0.00005

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X1P4H7H	(!C * Y)	-0.00034	-0.00034	-0.00033
	(!C * Y)	-0.00001	-0.00001	-0.00001
	(!C * Y)	0.00004	0.00004	0.00004
	(!C * Y)	0.00006	0.00006	0.00006
	(!B * C * Y)	-0.00034	-0.00034	-0.00033
	(!B * C * Y)	-0.00001	-0.00001	-0.00001
	(!B * C * Y)	0.00004	0.00004	0.00004
	(!B * C * Y)	0.00006	0.00006	0.00007
	(!A * B * C * Y)	-0.00034	-0.00034	-0.00033
	(!A * B * C * Y)	-0.00001	-0.00001	-0.00001
	(!A * B * C * Y)	0.00003	0.00003	0.00004
	(!A * B * C * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for D falling (conditional):

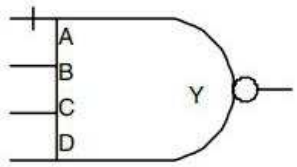
Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X1P4H7H	(!C * Y)	0.00033	0.00034	0.00034
	(!C * Y)	0.00001	0.00001	0.00001
	(!C * Y)	-0.00004	-0.00004	-0.00004
	(!C * Y)	-0.00006	-0.00006	-0.00006
	(!B * C * Y)	0.00033	0.00034	0.00034
	(!B * C * Y)	0.00001	0.00001	0.00001
	(!B * C * Y)	-0.00003	-0.00003	-0.00003
	(!B * C * Y)	-0.00006	-0.00006	-0.00006
	(!A * B * C * Y)	0.00033	0.00034	0.00034
	(!A * B * C * Y)	0.00001	0.00001	0.00002
	(!A * B * C * Y)	-0.00003	-0.00003	-0.00003
	(!A * B * C * Y)	-0.00006	-0.00006	-0.00006

NAND4X2H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND4 cell provides a logical NAND of four inputs (A, B, C, D). The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A	B	C	D	Y
0	x	x	x	1
1	0	x	x	1
1	1	0	x	1
1	1	1	0	1
1	1	1	1	0

Footprint

Cell Name	Area
NAND4X2H7H	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A	B	C	D	Y
NAND4X2H7H	0.00112	0.00112	0.00111	0.00123	0.02139

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND4X2H7H	0.00000	0.01192	0.03243

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4X2H7H	A->Y (FR)	0.02887	0.14141	0.50555
	B->Y (FR)	0.02774	0.13825	0.50200
	C->Y (FR)	0.02570	0.13434	0.49797
	D->Y (FR)	0.02374	0.13036	0.49430

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4X2H7H	A->Y (RF)	0.06973	0.24057	0.71219
	B->Y (RF)	0.06698	0.24016	0.72996
	C->Y (RF)	0.06107	0.23678	0.74526
	D->Y (RF)	0.05400	0.22285	0.72048

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4X2H7H	A	0.00182	0.00187	0.00190
	A	-0.00022	-0.00022	-0.00022
	A	0.00023	0.00024	0.00024
	A	-0.00018	-0.00015	-0.00012
	B	0.00165	0.00169	0.00172
	B	-0.00022	-0.00022	-0.00020
	B	0.00017	0.00017	0.00018
	B	-0.00014	-0.00010	-0.00007
	C	0.00145	0.00149	0.00153
	C	-0.00022	-0.00022	-0.00021
	C	0.00010	0.00011	0.00011
	C	-0.00013	-0.00009	-0.00006
	D	0.00127	0.00133	0.00138
	D	-0.00022	-0.00022	-0.00021
	D	0.00000	0.00004	0.00004
	D	-0.00016	-0.00010	-0.00005

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4X2H7H	A	-0.00017	-0.00013	-0.00010
	A	0.00022	0.00022	0.00022
	A	-0.00024	-0.00024	-0.00023
	A	0.00201	0.00206	0.00209
	B	-0.00017	-0.00013	-0.00010
	B	0.00021	0.00022	0.00022
	B	-0.00018	-0.00017	-0.00017
	B	0.00172	0.00177	0.00180
	C	-0.00016	-0.00013	-0.00010
	C	0.00021	0.00022	0.00022
	C	-0.00011	-0.00011	-0.00010
	C	0.00147	0.00151	0.00154
	D	-0.00019	-0.00015	-0.00010
	D	0.00022	0.00022	0.00022
	D	-0.00004	-0.00004	-0.00000
	D	0.00124	0.00128	0.00134

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X2H7H	(B * C * !D * Y)	-0.00025	-0.00025	-0.00025
	(B * C * !D * Y)	-0.00001	-0.00001	-0.00001
	(B * C * !D * Y)	0.00002	0.00002	0.00002
	(B * C * !D * Y)	0.00027	0.00027	0.00027
	(B * !C * D * Y)	-0.00025	-0.00025	-0.00025
	(B * !C * D * Y)	-0.00001	-0.00001	-0.00001
	(B * !C * D * Y)	0.00002	0.00002	0.00002
	(B * !C * D * Y)	0.00027	0.00027	0.00027
	(B * !C * !D * Y)	-0.00025	-0.00025	-0.00025
	(B * !C * !D * Y)	-0.00001	-0.00001	-0.00001
	(B * !C * !D * Y)	0.00002	0.00002	0.00002
	(B * !C * !D * Y)	0.00027	0.00027	0.00027
	(!B * C * D * Y)	-0.00025	-0.00025	-0.00025
	(!B * C * D * Y)	-0.00001	-0.00001	-0.00001
	(!B * C * D * Y)	0.00002	0.00002	0.00002
	(!B * C * D * Y)	0.00028	0.00028	0.00028
	(!B * !D * Y)	-0.00025	-0.00025	-0.00025
	(!B * !D * Y)	-0.00001	-0.00002	-0.00001
	(!B * !D * Y)	0.00002	0.00002	0.00002
	(!B * !D * Y)	0.00027	0.00028	0.00028
	(!B * !C * D * Y)	-0.00025	-0.00025	-0.00025
	(!B * !C * D * Y)	-0.00001	-0.00002	-0.00001
	(!B * !C * D * Y)	0.00002	0.00002	0.00002
	(!B * !C * D * Y)	0.00027	0.00028	0.00028

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X2H7H	(B * C * !D * Y)	0.00025	0.00025	0.00025
	(B * C * !D * Y)	0.00001	0.00001	0.00001
	(B * C * !D * Y)	-0.00002	-0.00002	-0.00002
	(B * C * !D * Y)	-0.00027	-0.00025	-0.00023
	(B * !C * D * Y)	0.00025	0.00025	0.00025
	(B * !C * D * Y)	0.00001	0.00002	0.00002
	(B * !C * D * Y)	-0.00002	-0.00002	-0.00002
	(B * !C * D * Y)	-0.00027	-0.00026	-0.00023
	(B * !C * !D * Y)	0.00025	0.00025	0.00025
	(B * !C * !D * Y)	0.00001	0.00002	0.00002
	(B * !C * !D * Y)	-0.00002	-0.00002	-0.00002
	(B * !C * !D * Y)	-0.00027	-0.00026	-0.00023
	(!B * C * D * Y)	0.00025	0.00025	0.00025
	(!B * C * D * Y)	0.00001	0.00002	0.00002
	(!B * C * D * Y)	-0.00002	-0.00002	-0.00002
	(!B * C * D * Y)	-0.00028	-0.00026	-0.00025
	(!B * !D * Y)	0.00025	0.00025	0.00025
	(!B * !D * Y)	0.00001	0.00002	0.00002
	(!B * !D * Y)	-0.00002	-0.00002	-0.00002
	(!B * !D * Y)	-0.00028	-0.00026	-0.00025
	(!B * !C * D * Y)	0.00025	0.00025	0.00025
	(!B * !C * D * Y)	0.00001	0.00002	0.00002
	(!B * !C * D * Y)	-0.00002	-0.00002	-0.00002
	(!B * !C * D * Y)	-0.00028	-0.00026	-0.00025

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X2H7H	(A * C * !D * Y)	-0.00025	-0.00024	-0.00024
	(A * C * !D * Y)	-0.00001	-0.00001	-0.00001
	(A * C * !D * Y)	0.00002	0.00003	0.00003
	(A * C * !D * Y)	0.00022	0.00023	0.00023
	(A * !C * D * Y)	-0.00025	-0.00024	-0.00024
	(A * !C * D * Y)	-0.00001	-0.00001	-0.00001
	(A * !C * D * Y)	0.00002	0.00002	0.00002
	(A * !C * D * Y)	0.00023	0.00024	0.00024
	(A * !C * !D * Y)	-0.00024	-0.00024	-0.00024
	(A * !C * !D * Y)	-0.00002	-0.00002	-0.00001
	(A * !C * !D * Y)	0.00002	0.00002	0.00002
	(A * !C * !D * Y)	0.00023	0.00023	0.00023
	(!A * C * D * Y)	-0.00025	-0.00024	-0.00024
	(!A * C * D * Y)	-0.00001	-0.00001	-0.00001
	(!A * C * D * Y)	0.00007	0.00007	0.00007
	(!A * C * D * Y)	0.00006	0.00006	0.00006
	(!A * C * !D * Y)	-0.00025	-0.00024	-0.00024
	(!A * C * !D * Y)	-0.00001	-0.00001	-0.00001
	(!A * C * !D * Y)	0.00008	0.00008	0.00008
	(!A * C * !D * Y)	0.00006	0.00006	0.00006
	(!A * !C * D * Y)	-0.00025	-0.00024	-0.00024
	(!A * !C * D * Y)	-0.00001	-0.00002	-0.00001
	(!A * !C * D * Y)	0.00008	0.00008	0.00008
	(!A * !C * D * Y)	0.00006	0.00006	0.00006
	(!A * !C * !D * Y)	-0.00025	-0.00024	-0.00024
	(!A * !C * !D * Y)	-0.00001	-0.00001	-0.00001
	(!A * !C * !D * Y)	0.00008	0.00008	0.00008
	(!A * !C * !D * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X2H7H	(A * C * !D * Y)	0.00024	0.00024	0.00025
	(A * C * !D * Y)	0.00001	0.00002	0.00002
	(A * C * !D * Y)	-0.00003	-0.00003	-0.00002
	(A * C * !D * Y)	-0.00023	-0.00021	-0.00018
	(A * !C * D * Y)	0.00024	0.00024	0.00025
	(A * !C * D * Y)	0.00001	0.00002	0.00002
	(A * !C * D * Y)	-0.00002	-0.00002	-0.00002
	(A * !C * D * Y)	-0.00023	-0.00022	-0.00020
	(A * !C * !D * Y)	0.00024	0.00024	0.00025
	(A * !C * !D * Y)	0.00001	0.00002	0.00002
	(A * !C * !D * Y)	-0.00002	-0.00002	-0.00002
	(A * !C * !D * Y)	-0.00023	-0.00022	-0.00020
	(!A * C * D * Y)	0.00024	0.00024	0.00025
	(!A * C * D * Y)	0.00001	0.00002	0.00002
	(!A * C * D * Y)	-0.00007	-0.00007	-0.00007
	(!A * C * D * Y)	-0.00006	-0.00006	-0.00006
	(!A * C * !D * Y)	0.00024	0.00024	0.00025
	(!A * C * !D * Y)	0.00001	0.00002	0.00002
	(!A * C * !D * Y)	-0.00008	-0.00008	-0.00008
	(!A * C * !D * Y)	-0.00006	-0.00006	-0.00006
	(!A * !C * D * Y)	0.00024	0.00024	0.00025
	(!A * !C * D * Y)	0.00001	0.00002	0.00002
	(!A * !C * D * Y)	-0.00008	-0.00008	-0.00008
	(!A * !C * D * Y)	-0.00006	-0.00006	-0.00006
	(!A * !C * !D * Y)	0.00024	0.00025	0.00025
	(!A * !C * !D * Y)	0.00001	0.00002	0.00002
	(!A * !C * !D * Y)	-0.00008	-0.00008	-0.00008
	(!A * !C * !D * Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X2H7H	(A * B * !D * Y)	-0.00024	-0.00024	-0.00024
	(A * B * !D * Y)	-0.00001	-0.00001	-0.00001
	(A * B * !D * Y)	0.00002	0.00002	0.00002
	(A * B * !D * Y)	0.00024	0.00024	0.00024
	(!B * D * Y)	-0.00024	-0.00024	-0.00024
	(!B * D * Y)	-0.00001	-0.00001	-0.00001
	(!B * D * Y)	0.00007	0.00007	0.00007
	(!B * D * Y)	0.00006	0.00006	0.00006
	(!B * !D * Y)	-0.00024	-0.00024	-0.00023
	(!B * !D * Y)	-0.00002	-0.00002	-0.00001
	(!B * !D * Y)	0.00008	0.00008	0.00008
	(!B * !D * Y)	0.00006	0.00006	0.00006
	(!A * B * D * Y)	-0.00024	-0.00024	-0.00023
	(!A * B * D * Y)	-0.00001	-0.00001	-0.00001
	(!A * B * D * Y)	0.00007	0.00007	0.00007
	(!A * B * D * Y)	0.00006	0.00006	0.00006
	(!A * B * !D * Y)	-0.00024	-0.00024	-0.00024
	(!A * B * !D * Y)	-0.00002	-0.00002	-0.00001
	(!A * B * !D * Y)	0.00008	0.00008	0.00008
	(!A * B * !D * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X2H7H	(A * B * !D * Y)	0.00024	0.00024	0.00025
	(A * B * !D * Y)	0.00001	0.00002	0.00002
	(A * B * !D * Y)	-0.00002	-0.00002	-0.00002
	(A * B * !D * Y)	-0.00024	-0.00022	-0.00019
	(!B * D * Y)	0.00024	0.00024	0.00024
	(!B * D * Y)	0.00001	0.00002	0.00002
	(!B * D * Y)	-0.00007	-0.00007	-0.00007
	(!B * D * Y)	-0.00006	-0.00006	-0.00006
	(!B * !D * Y)	0.00024	0.00024	0.00024
	(!B * !D * Y)	0.00001	0.00002	0.00002
	(!B * !D * Y)	-0.00008	-0.00008	-0.00008
	(!B * !D * Y)	-0.00006	-0.00006	-0.00006
	(!A * B * D * Y)	0.00024	0.00024	0.00024
	(!A * B * D * Y)	0.00001	0.00002	0.00002
	(!A * B * D * Y)	-0.00007	-0.00007	-0.00007
	(!A * B * D * Y)	-0.00006	-0.00006	-0.00006
	(!A * B * !D * Y)	0.00024	0.00024	0.00024
	(!A * B * !D * Y)	0.00001	0.00002	0.00002
	(!A * B * !D * Y)	-0.00008	-0.00008	-0.00008
	(!A * B * !D * Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X2H7H	(!C * Y)	-0.00037	-0.00037	-0.00037
	(!C * Y)	-0.00001	-0.00001	-0.00001
	(!C * Y)	0.00004	0.00004	0.00005
	(!C * Y)	0.00006	0.00006	0.00006
	(!B * C * Y)	-0.00037	-0.00037	-0.00037
	(!B * C * Y)	-0.00002	-0.00001	-0.00001
	(!B * C * Y)	0.00004	0.00004	0.00004
	(!B * C * Y)	0.00006	0.00006	0.00006
	(!A * B * C * Y)	-0.00037	-0.00037	-0.00037
	(!A * B * C * Y)	-0.00001	-0.00001	-0.00001
	(!A * B * C * Y)	0.00004	0.00004	0.00004
	(!A * B * C * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for D falling (conditional):

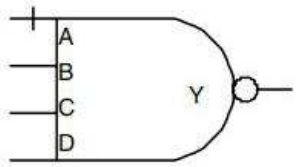
Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X2H7H	(!C * Y)	0.00037	0.00037	0.00037
	(!C * Y)	0.00001	0.00002	0.00002
	(!C * Y)	-0.00004	-0.00004	-0.00004
	(!C * Y)	-0.00006	-0.00006	-0.00006
	(!B * C * Y)	0.00037	0.00037	0.00037
	(!B * C * Y)	0.00001	0.00002	0.00002
	(!B * C * Y)	-0.00004	-0.00004	-0.00004
	(!B * C * Y)	-0.00006	-0.00006	-0.00006
	(!A * B * C * Y)	0.00037	0.00037	0.00037
	(!A * B * C * Y)	0.00001	0.00002	0.00002
	(!A * B * C * Y)	-0.00004	-0.00004	-0.00004
	(!A * B * C * Y)	-0.00006	-0.00006	-0.00006

NAND4X3H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND4 cell provides a logical NAND of four inputs (A, B, C, D). The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A	B	C	D	Y
0	x	x	x	1
1	0	x	x	1
1	1	0	x	1
1	1	1	0	1
1	1	1	1	0

Footprint

Cell Name	Area
NAND4X3H7H	3.64000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A	B	C	D	Y
NAND4X3H7H	0.00190	0.00188	0.00192	0.00201	0.03341

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND4X3H7H	0.00000	0.01588	0.04915

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4X3H7H	A->Y (FR)	0.02942	0.14179	0.50258
	B->Y (FR)	0.02835	0.13828	0.49811
	C->Y (FR)	0.02647	0.13395	0.49326
	D->Y (FR)	0.02282	0.12737	0.48692

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4X3H7H	A->Y (RF)	0.07347	0.24598	0.71656
	B->Y (RF)	0.07084	0.24505	0.73334
	C->Y (RF)	0.06434	0.24054	0.75081
	D->Y (RF)	0.05080	0.21989	0.72000

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4X3H7H	A	0.00326	0.00334	0.00341
	A	-0.00033	-0.00033	-0.00032
	A	0.00035	0.00036	0.00036
	A	-0.00019	-0.00013	-0.00007
	B	0.00291	0.00299	0.00306
	B	-0.00033	-0.00033	-0.00030
	B	0.00026	0.00026	0.00029
	B	-0.00017	-0.00010	-0.00004
	C	0.00254	0.00263	0.00270
	C	-0.00033	-0.00033	-0.00032
	C	0.00012	0.00017	0.00021
	C	-0.00018	-0.00010	-0.00002
	D	0.00208	0.00219	0.00227
	D	-0.00033	-0.00033	-0.00032
	D	0.00003	0.00006	0.00008
	D	-0.00025	-0.00015	-0.00007

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4X3H7H	A	-0.00027	-0.00020	-0.00015
	A	0.00032	0.00033	0.00034
	A	-0.00036	-0.00036	-0.00035
	A	0.00356	0.00362	0.00367
	B	-0.00027	-0.00020	-0.00015
	B	0.00031	0.00033	0.00033
	B	-0.00029	-0.00026	-0.00026
	B	0.00305	0.00311	0.00316
	C	-0.00027	-0.00020	-0.00015
	C	0.00033	0.00033	0.00033
	C	-0.00019	-0.00017	-0.00012
	C	0.00257	0.00263	0.00268
	D	-0.00031	-0.00023	-0.00015
	D	0.00032	0.00033	0.00033
	D	-0.00006	-0.00006	-0.00003
	D	0.00203	0.00211	0.00220

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X3H7H	(B * C * !D * Y)	-0.00038	-0.00038	-0.00038
	(B * C * !D * Y)	-0.00002	-0.00002	-0.00002
	(B * C * !D * Y)	0.00003	0.00004	0.00004
	(B * C * !D * Y)	0.00047	0.00047	0.00048
	(B * !C * D * Y)	-0.00038	-0.00038	-0.00037
	(B * !C * D * Y)	-0.00002	-0.00002	-0.00002
	(B * !C * D * Y)	0.00004	0.00004	0.00004
	(B * !C * D * Y)	0.00047	0.00048	0.00048
	(B * !C * !D * Y)	-0.00038	-0.00038	-0.00038
	(B * !C * !D * Y)	-0.00002	-0.00002	-0.00002
	(B * !C * !D * Y)	0.00004	0.00004	0.00004
	(B * !C * !D * Y)	0.00048	0.00048	0.00048
	(!B * C * D * Y)	-0.00038	-0.00038	-0.00038
	(!B * C * D * Y)	-0.00002	-0.00002	-0.00002
	(!B * C * D * Y)	0.00004	0.00004	0.00004
	(!B * C * D * Y)	0.00049	0.00050	0.00050
	(!B * !D * Y)	-0.00038	-0.00038	-0.00038
	(!B * !D * Y)	-0.00002	-0.00002	-0.00002
	(!B * !D * Y)	0.00004	0.00004	0.00004
	(!B * !D * Y)	0.00049	0.00049	0.00050
	(!B * !C * D * Y)	-0.00038	-0.00038	-0.00038
	(!B * !C * D * Y)	-0.00002	-0.00002	-0.00002
	(!B * !C * D * Y)	0.00004	0.00004	0.00004
	(!B * !C * D * Y)	0.00049	0.00049	0.00050

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X3H7H	(B * C * !D * Y)	0.00038	0.00038	0.00038
	(B * C * !D * Y)	0.00002	0.00002	0.00002
	(B * C * !D * Y)	-0.00004	-0.00004	-0.00003
	(B * C * !D * Y)	-0.00047	-0.00044	-0.00039
	(B * !C * D * Y)	0.00037	0.00038	0.00038
	(B * !C * D * Y)	0.00002	0.00002	0.00002
	(B * !C * D * Y)	-0.00004	-0.00004	-0.00004
	(B * !C * D * Y)	-0.00048	-0.00045	-0.00040
	(B * !C * !D * Y)	0.00038	0.00038	0.00038
	(B * !C * !D * Y)	0.00002	0.00002	0.00003
	(B * !C * !D * Y)	-0.00004	-0.00004	-0.00004
	(B * !C * !D * Y)	-0.00048	-0.00045	-0.00040
	(!B * C * D * Y)	0.00038	0.00038	0.00038
	(!B * C * D * Y)	0.00002	0.00003	0.00003
	(!B * C * D * Y)	-0.00004	-0.00004	-0.00004
	(!B * C * D * Y)	-0.00050	-0.00047	-0.00043
	(!B * !D * Y)	0.00038	0.00038	0.00038
	(!B * !D * Y)	0.00002	0.00002	0.00003
	(!B * !D * Y)	-0.00004	-0.00004	-0.00004
	(!B * !D * Y)	-0.00050	-0.00047	-0.00042
	(!B * !C * D * Y)	0.00038	0.00038	0.00038
	(!B * !C * D * Y)	0.00002	0.00003	0.00003
	(!B * !C * D * Y)	-0.00004	-0.00004	-0.00004
	(!B * !C * D * Y)	-0.00050	-0.00047	-0.00043

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X3H7H	(A * C * !D * Y)	-0.00039	-0.00039	-0.00038
	(A * C * !D * Y)	-0.00002	-0.00002	-0.00002
	(A * C * !D * Y)	0.00004	0.00004	0.00004
	(A * C * !D * Y)	0.00047	0.00048	0.00048
	(A * !C * D * Y)	-0.00039	-0.00038	-0.00038
	(A * !C * D * Y)	-0.00002	-0.00002	-0.00002
	(A * !C * D * Y)	0.00003	0.00003	0.00004
	(A * !C * D * Y)	0.00049	0.00049	0.00050
	(A * !C * !D * Y)	-0.00039	-0.00038	-0.00038
	(A * !C * !D * Y)	-0.00002	-0.00002	-0.00002
	(A * !C * !D * Y)	0.00004	0.00004	0.00004
	(A * !C * !D * Y)	0.00049	0.00049	0.00049
	(!A * C * D * Y)	-0.00039	-0.00039	-0.00038
	(!A * C * D * Y)	-0.00002	-0.00002	-0.00002
	(!A * C * D * Y)	0.00011	0.00011	0.00011
	(!A * C * D * Y)	0.00015	0.00015	0.00015
	(!A * C * !D * Y)	-0.00040	-0.00039	-0.00039
	(!A * C * !D * Y)	-0.00002	-0.00002	-0.00002
	(!A * C * !D * Y)	0.00012	0.00012	0.00012
	(!A * C * !D * Y)	0.00014	0.00015	0.00015
	(!A * !C * D * Y)	-0.00039	-0.00039	-0.00038
	(!A * !C * D * Y)	-0.00002	-0.00002	-0.00002
	(!A * !C * D * Y)	0.00012	0.00012	0.00012
	(!A * !C * D * Y)	0.00015	0.00015	0.00015
	(!A * !C * !D * Y)	-0.00039	-0.00039	-0.00038
	(!A * !C * !D * Y)	-0.00002	-0.00002	-0.00002
	(!A * !C * !D * Y)	0.00013	0.00013	0.00013
	(!A * !C * !D * Y)	0.00015	0.00015	0.00015

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X3H7H	(A * C * !D * Y)	0.00039	0.00039	0.00039
	(A * C * !D * Y)	0.00002	0.00002	0.00003
	(A * C * !D * Y)	-0.00004	-0.00004	-0.00003
	(A * C * !D * Y)	-0.00048	-0.00044	-0.00039
	(A * !C * D * Y)	0.00038	0.00038	0.00039
	(A * !C * D * Y)	0.00002	0.00002	0.00003
	(A * !C * D * Y)	-0.00004	-0.00003	-0.00003
	(A * !C * D * Y)	-0.00050	-0.00047	-0.00042
	(A * !C * !D * Y)	0.00038	0.00038	0.00039
	(A * !C * !D * Y)	0.00002	0.00003	0.00003
	(A * !C * !D * Y)	-0.00004	-0.00004	-0.00003
	(A * !C * !D * Y)	-0.00049	-0.00047	-0.00043
	(!A * C * D * Y)	0.00039	0.00039	0.00039
	(!A * C * D * Y)	0.00002	0.00003	0.00003
	(!A * C * D * Y)	-0.00011	-0.00011	-0.00011
	(!A * C * D * Y)	-0.00015	-0.00015	-0.00015
	(!A * C * !D * Y)	0.00039	0.00040	0.00040
	(!A * C * !D * Y)	0.00002	0.00002	0.00003
	(!A * C * !D * Y)	-0.00012	-0.00012	-0.00012
	(!A * C * !D * Y)	-0.00015	-0.00015	-0.00014
	(!A * !C * D * Y)	0.00038	0.00039	0.00039
	(!A * !C * D * Y)	0.00002	0.00002	0.00003
	(!A * !C * D * Y)	-0.00012	-0.00012	-0.00012
	(!A * !C * D * Y)	-0.00015	-0.00015	-0.00015
	(!A * !C * !D * Y)	0.00038	0.00039	0.00039
	(!A * !C * !D * Y)	0.00002	0.00002	0.00003
	(!A * !C * !D * Y)	-0.00013	-0.00013	-0.00013
	(!A * !C * !D * Y)	-0.00015	-0.00015	-0.00015

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X3H7H	(A * B * !D * Y)	-0.00040	-0.00040	-0.00039
	(A * B * !D * Y)	-0.00003	-0.00002	-0.00002
	(A * B * !D * Y)	0.00003	0.00003	0.00004
	(A * B * !D * Y)	0.00047	0.00048	0.00048
	(!B * D * Y)	-0.00041	-0.00041	-0.00040
	(!B * D * Y)	-0.00002	-0.00002	-0.00002
	(!B * D * Y)	0.00010	0.00010	0.00010
	(!B * D * Y)	0.00016	0.00016	0.00016
	(!B * !D * Y)	-0.00041	-0.00041	-0.00041
	(!B * !D * Y)	-0.00002	-0.00002	-0.00002
	(!B * !D * Y)	0.00011	0.00012	0.00012
	(!B * !D * Y)	0.00016	0.00016	0.00016
	(!A * B * D * Y)	-0.00041	-0.00041	-0.00041
	(!A * B * D * Y)	-0.00003	-0.00002	-0.00002
	(!A * B * D * Y)	0.00010	0.00011	0.00011
	(!A * B * D * Y)	0.00013	0.00014	0.00014
	(!A * B * !D * Y)	-0.00041	-0.00041	-0.00040
	(!A * B * !D * Y)	-0.00002	-0.00002	-0.00002
	(!A * B * !D * Y)	0.00012	0.00012	0.00012
	(!A * B * !D * Y)	0.00013	0.00014	0.00014

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X3H7H	(A * B * !D * Y)	0.00040	0.00041	0.00043
	(A * B * !D * Y)	0.00002	0.00003	0.00003
	(A * B * !D * Y)	-0.00004	-0.00003	-0.00003
	(A * B * !D * Y)	-0.00048	-0.00044	-0.00039
	(!B * D * Y)	0.00041	0.00041	0.00041
	(!B * D * Y)	0.00002	0.00003	0.00003
	(!B * D * Y)	-0.00010	-0.00010	-0.00010
	(!B * D * Y)	-0.00016	-0.00016	-0.00016
	(!B * !D * Y)	0.00041	0.00042	0.00042
	(!B * !D * Y)	0.00002	0.00003	0.00003
	(!B * !D * Y)	-0.00012	-0.00012	-0.00011
	(!B * !D * Y)	-0.00016	-0.00016	-0.00016
	(!A * B * D * Y)	0.00041	0.00041	0.00041
	(!A * B * D * Y)	0.00002	0.00003	0.00003
	(!A * B * D * Y)	-0.00010	-0.00010	-0.00010
	(!A * B * D * Y)	-0.00014	-0.00014	-0.00013
	(!A * B * !D * Y)	0.00041	0.00041	0.00041
	(!A * B * !D * Y)	0.00002	0.00003	0.00003
	(!A * B * !D * Y)	-0.00012	-0.00012	-0.00012
	(!A * B * !D * Y)	-0.00014	-0.00014	-0.00013

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X3H7H	(!C * Y)	-0.00061	-0.00060	-0.00060
	(!C * Y)	-0.00002	-0.00002	-0.00002
	(!C * Y)	0.00006	0.00006	0.00006
	(!C * Y)	0.00015	0.00015	0.00015
	(!B * C * Y)	-0.00061	-0.00060	-0.00060
	(!B * C * Y)	-0.00002	-0.00002	-0.00002
	(!B * C * Y)	0.00006	0.00006	0.00006
	(!B * C * Y)	0.00014	0.00014	0.00014
	(!A * B * C * Y)	-0.00061	-0.00060	-0.00060
	(!A * B * C * Y)	-0.00002	-0.00002	-0.00002
	(!A * B * C * Y)	0.00006	0.00006	0.00006
	(!A * B * C * Y)	0.00013	0.00013	0.00013

Passive power(pJ) for D falling (conditional):

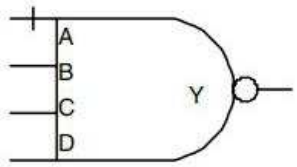
Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X3H7H	(!C * Y)	0.00060	0.00061	0.00061
	(!C * Y)	0.00002	0.00003	0.00003
	(!C * Y)	-0.00006	-0.00006	-0.00005
	(!C * Y)	-0.00015	-0.00015	-0.00015
	(!B * C * Y)	0.00060	0.00061	0.00061
	(!B * C * Y)	0.00002	0.00003	0.00003
	(!B * C * Y)	-0.00006	-0.00006	-0.00006
	(!B * C * Y)	-0.00014	-0.00014	-0.00014
	(!A * B * C * Y)	0.00060	0.00061	0.00061
	(!A * B * C * Y)	0.00002	0.00002	0.00003
	(!A * B * C * Y)	-0.00006	-0.00006	-0.00006
	(!A * B * C * Y)	-0.00013	-0.00013	-0.00013

NAND4X4H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND4 cell provides a logical NAND of four inputs (A, B, C, D). The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A	B	C	D	Y
0	x	x	x	1
1	0	x	x	1
1	1	0	x	1
1	1	1	0	1
1	1	1	1	0

Footprint

Cell Name	Area
NAND4X4H7H	4.20000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A	B	C	D	Y
NAND4X4H7H	0.00229	0.00225	0.00232	0.00235	0.04176

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND4X4H7H	0.00000	0.02392	0.06485

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4X4H7H	A->Y (FR)	0.02902	0.14176	0.50409
	B->Y (FR)	0.02788	0.13829	0.49987
	C->Y (FR)	0.02606	0.13414	0.49591
	D->Y (FR)	0.02260	0.12807	0.49037

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4X4H7H	A->Y (RF)	0.07260	0.24538	0.71819
	B->Y (RF)	0.06970	0.24404	0.73407
	C->Y (RF)	0.06353	0.23980	0.75108
	D->Y (RF)	0.05108	0.22005	0.71935

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4X4H7H	A	0.00411	0.00421	0.00430
	A	-0.00044	-0.00044	-0.00043
	A	0.00046	0.00047	0.00047
	A	-0.00013	-0.00005	0.00001
	B	0.00369	0.00379	0.00387
	B	-0.00044	-0.00044	-0.00042
	B	0.00034	0.00035	0.00035
	B	-0.00011	-0.00002	0.00005
	C	0.00326	0.00336	0.00345
	C	-0.00044	-0.00044	-0.00043
	C	0.00018	0.00022	0.00022
	C	-0.00014	-0.00002	0.00006
	D	0.00275	0.00284	0.00294
	D	-0.00044	-0.00044	-0.00042
	D	0.00006	0.00008	0.00011
	D	-0.00016	-0.00004	0.00006

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4X4H7H	A	-0.00035	-0.00026	-0.00020
	A	0.00043	0.00044	0.00045
	A	-0.00047	-0.00047	-0.00046
	A	0.00435	0.00443	0.00450
	B	-0.00035	-0.00026	-0.00020
	B	0.00043	0.00044	0.00045
	B	-0.00035	-0.00035	-0.00034
	B	0.00373	0.00382	0.00388
	C	-0.00035	-0.00027	-0.00020
	C	0.00043	0.00044	0.00045
	C	-0.00022	-0.00022	-0.00018
	C	0.00317	0.00325	0.00332
	D	-0.00038	-0.00028	-0.00020
	D	0.00042	0.00044	0.00045
	D	-0.00008	-0.00008	-0.00006
	D	0.00252	0.00261	0.00271

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X4H7H	(B * C * !D * Y)	-0.00051	-0.00051	-0.00050
	(B * C * !D * Y)	-0.00003	-0.00003	-0.00003
	(B * C * !D * Y)	0.00005	0.00006	0.00006
	(B * C * !D * Y)	0.00051	0.00052	0.00052
	(B * !C * D * Y)	-0.00050	-0.00050	-0.00050
	(B * !C * D * Y)	-0.00003	-0.00003	-0.00003
	(B * !C * D * Y)	0.00005	0.00005	0.00005
	(B * !C * D * Y)	0.00052	0.00053	0.00053
	(B * !C * !D * Y)	-0.00050	-0.00050	-0.00050
	(B * !C * !D * Y)	-0.00003	-0.00003	-0.00003
	(B * !C * !D * Y)	0.00005	0.00005	0.00006
	(B * !C * !D * Y)	0.00053	0.00053	0.00053
	(!B * C * D * Y)	-0.00051	-0.00050	-0.00050
	(!B * C * D * Y)	-0.00003	-0.00003	-0.00003
	(!B * C * D * Y)	0.00005	0.00005	0.00005
	(!B * C * D * Y)	0.00055	0.00055	0.00055
	(!B * !D * Y)	-0.00050	-0.00050	-0.00050
	(!B * !D * Y)	-0.00003	-0.00003	-0.00003
	(!B * !D * Y)	0.00005	0.00005	0.00005
	(!B * !D * Y)	0.00054	0.00055	0.00055
	(!B * !C * D * Y)	-0.00050	-0.00050	-0.00050
	(!B * !C * D * Y)	-0.00003	-0.00003	-0.00003
	(!B * !C * D * Y)	0.00005	0.00005	0.00005
	(!B * !C * D * Y)	0.00054	0.00055	0.00055

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X4H7H	(B * C * !D * Y)	0.00050	0.00051	0.00051
	(B * C * !D * Y)	0.00003	0.00003	0.00003
	(B * C * !D * Y)	-0.00006	-0.00006	-0.00005
	(B * C * !D * Y)	-0.00052	-0.00048	-0.00042
	(B * !C * D * Y)	0.00050	0.00050	0.00050
	(B * !C * D * Y)	0.00003	0.00003	0.00003
	(B * !C * D * Y)	-0.00005	-0.00005	-0.00005
	(B * !C * D * Y)	-0.00053	-0.00049	-0.00043
	(B * !C * !D * Y)	0.00050	0.00050	0.00051
	(B * !C * !D * Y)	0.00003	0.00003	0.00003
	(B * !C * !D * Y)	-0.00006	-0.00005	-0.00005
	(B * !C * !D * Y)	-0.00053	-0.00049	-0.00044
	(!B * C * D * Y)	0.00050	0.00050	0.00051
	(!B * C * D * Y)	0.00003	0.00003	0.00003
	(!B * C * D * Y)	-0.00005	-0.00005	-0.00005
	(!B * C * D * Y)	-0.00055	-0.00052	-0.00047
	(!B * !D * Y)	0.00050	0.00050	0.00051
	(!B * !D * Y)	0.00003	0.00003	0.00003
	(!B * !D * Y)	-0.00005	-0.00005	-0.00005
	(!B * !D * Y)	-0.00055	-0.00052	-0.00047
	(!B * !C * D * Y)	0.00050	0.00050	0.00051
	(!B * !C * D * Y)	0.00003	0.00003	0.00003
	(!B * !C * D * Y)	-0.00005	-0.00005	-0.00005
	(!B * !C * D * Y)	-0.00055	-0.00052	-0.00047

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X4H7H	(A * C * !D * Y)	-0.00050	-0.00050	-0.00050
	(A * C * !D * Y)	-0.00003	-0.00003	-0.00003
	(A * C * !D * Y)	0.00004	0.00005	0.00005
	(A * C * !D * Y)	0.00052	0.00052	0.00052
	(A * !C * D * Y)	-0.00050	-0.00050	-0.00050
	(A * !C * D * Y)	-0.00003	-0.00003	-0.00003
	(A * !C * D * Y)	0.00004	0.00005	0.00005
	(A * !C * D * Y)	0.00055	0.00055	0.00055
	(A * !C * !D * Y)	-0.00050	-0.00050	-0.00049
	(A * !C * !D * Y)	-0.00003	-0.00003	-0.00003
	(A * !C * !D * Y)	0.00004	0.00005	0.00005
	(A * !C * !D * Y)	0.00054	0.00054	0.00054
	(!A * C * D * Y)	-0.00050	-0.00050	-0.00049
	(!A * C * D * Y)	-0.00003	-0.00003	-0.00003
	(!A * C * D * Y)	0.00014	0.00014	0.00014
	(!A * C * D * Y)	0.00013	0.00014	0.00014
	(!A * C * !D * Y)	-0.00051	-0.00051	-0.00050
	(!A * C * !D * Y)	-0.00003	-0.00003	-0.00003
	(!A * C * !D * Y)	0.00016	0.00016	0.00016
	(!A * C * !D * Y)	0.00012	0.00013	0.00013
	(!A * !C * D * Y)	-0.00050	-0.00050	-0.00050
	(!A * !C * D * Y)	-0.00003	-0.00003	-0.00003
	(!A * !C * D * Y)	0.00016	0.00016	0.00016
	(!A * !C * D * Y)	0.00013	0.00014	0.00014
	(!A * !C * !D * Y)	-0.00050	-0.00050	-0.00049
	(!A * !C * !D * Y)	-0.00003	-0.00003	-0.00002
	(!A * !C * !D * Y)	0.00016	0.00016	0.00017
	(!A * !C * !D * Y)	0.00013	0.00014	0.00014

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X4H7H	(A * C * !D * Y)	0.00050	0.00050	0.00051
	(A * C * !D * Y)	0.00003	0.00003	0.00003
	(A * C * !D * Y)	-0.00005	-0.00005	-0.00004
	(A * C * !D * Y)	-0.00052	-0.00048	-0.00041
	(A * !C * D * Y)	0.00050	0.00050	0.00050
	(A * !C * D * Y)	0.00003	0.00003	0.00003
	(A * !C * D * Y)	-0.00005	-0.00005	-0.00004
	(A * !C * D * Y)	-0.00055	-0.00051	-0.00046
	(A * !C * !D * Y)	0.00050	0.00050	0.00050
	(A * !C * !D * Y)	0.00003	0.00003	0.00003
	(A * !C * !D * Y)	-0.00005	-0.00005	-0.00004
	(A * !C * !D * Y)	-0.00054	-0.00051	-0.00047
	(!A * C * D * Y)	0.00050	0.00050	0.00050
	(!A * C * D * Y)	0.00003	0.00003	0.00003
	(!A * C * D * Y)	-0.00014	-0.00014	-0.00014
	(!A * C * D * Y)	-0.00014	-0.00014	-0.00013
	(!A * C * !D * Y)	0.00051	0.00051	0.00051
	(!A * C * !D * Y)	0.00003	0.00003	0.00003
	(!A * C * !D * Y)	-0.00016	-0.00016	-0.00016
	(!A * C * !D * Y)	-0.00013	-0.00013	-0.00012
	(!A * !C * D * Y)	0.00050	0.00050	0.00050
	(!A * !C * D * Y)	0.00003	0.00003	0.00003
	(!A * !C * D * Y)	-0.00016	-0.00016	-0.00016
	(!A * !C * D * Y)	-0.00014	-0.00014	-0.00013
	(!A * !C * !D * Y)	0.00049	0.00050	0.00050
	(!A * !C * !D * Y)	0.00003	0.00003	0.00003
	(!A * !C * !D * Y)	-0.00017	-0.00016	-0.00016
	(!A * !C * !D * Y)	-0.00014	-0.00014	-0.00013

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X4H7H	(A * B * !D * Y)	-0.00052	-0.00052	-0.00051
	(A * B * !D * Y)	-0.00003	-0.00003	-0.00003
	(A * B * !D * Y)	0.00004	0.00004	0.00005
	(A * B * !D * Y)	0.00053	0.00053	0.00054
	(!B * D * Y)	-0.00053	-0.00053	-0.00052
	(!B * D * Y)	-0.00003	-0.00003	-0.00003
	(!B * D * Y)	0.00013	0.00013	0.00014
	(!B * D * Y)	0.00013	0.00014	0.00014
	(!B * !D * Y)	-0.00054	-0.00053	-0.00053
	(!B * !D * Y)	-0.00003	-0.00003	-0.00003
	(!B * !D * Y)	0.00015	0.00015	0.00016
	(!B * !D * Y)	0.00014	0.00014	0.00014
	(!A * B * D * Y)	-0.00053	-0.00053	-0.00052
	(!A * B * D * Y)	-0.00003	-0.00003	-0.00003
	(!A * B * D * Y)	0.00013	0.00014	0.00014
	(!A * B * D * Y)	0.00011	0.00011	0.00012
	(!A * B * !D * Y)	-0.00053	-0.00053	-0.00052
	(!A * B * !D * Y)	-0.00003	-0.00003	-0.00003
	(!A * B * !D * Y)	0.00016	0.00016	0.00016
	(!A * B * !D * Y)	0.00011	0.00012	0.00012

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X4H7H	(A * B * !D * Y)	0.00052	0.00054	0.00057
	(A * B * !D * Y)	0.00003	0.00003	0.00003
	(A * B * !D * Y)	-0.00005	-0.00004	-0.00004
	(A * B * !D * Y)	-0.00053	-0.00049	-0.00042
	(!B * D * Y)	0.00053	0.00053	0.00054
	(!B * D * Y)	0.00003	0.00003	0.00003
	(!B * D * Y)	-0.00013	-0.00013	-0.00013
	(!B * D * Y)	-0.00014	-0.00014	-0.00013
	(!B * !D * Y)	0.00054	0.00054	0.00054
	(!B * !D * Y)	0.00003	0.00003	0.00003
	(!B * !D * Y)	-0.00016	-0.00015	-0.00015
	(!B * !D * Y)	-0.00014	-0.00014	-0.00014
	(!A * B * D * Y)	0.00053	0.00053	0.00054
	(!A * B * D * Y)	0.00003	0.00003	0.00003
	(!A * B * D * Y)	-0.00013	-0.00013	-0.00013
	(!A * B * D * Y)	-0.00012	-0.00011	-0.00011
	(!A * B * !D * Y)	0.00053	0.00053	0.00054
	(!A * B * !D * Y)	0.00003	0.00003	0.00003
	(!A * B * !D * Y)	-0.00016	-0.00016	-0.00016
	(!A * B * !D * Y)	-0.00012	-0.00012	-0.00011

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X4H7H	(!C * Y)	-0.00073	-0.00073	-0.00072
	(!C * Y)	-0.00003	-0.00003	-0.00003
	(!C * Y)	0.00008	0.00008	0.00009
	(!C * Y)	0.00013	0.00013	0.00013
	(!B * C * Y)	-0.00073	-0.00072	-0.00071
	(!B * C * Y)	-0.00003	-0.00003	-0.00003
	(!B * C * Y)	0.00008	0.00009	0.00009
	(!B * C * Y)	0.00012	0.00013	0.00013
	(!A * B * C * Y)	-0.00073	-0.00072	-0.00072
	(!A * B * C * Y)	-0.00003	-0.00003	-0.00003
	(!A * B * C * Y)	0.00009	0.00009	0.00009
	(!A * B * C * Y)	0.00011	0.00012	0.00012

Passive power(pJ) for D falling (conditional):

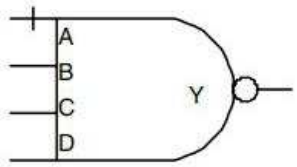
Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X4H7H	(!C * Y)	0.00072	0.00073	0.00073
	(!C * Y)	0.00003	0.00003	0.00003
	(!C * Y)	-0.00008	-0.00008	-0.00008
	(!C * Y)	-0.00013	-0.00013	-0.00013
	(!B * C * Y)	0.00072	0.00073	0.00073
	(!B * C * Y)	0.00003	0.00003	0.00003
	(!B * C * Y)	-0.00008	-0.00008	-0.00008
	(!B * C * Y)	-0.00012	-0.00012	-0.00012
	(!A * B * C * Y)	0.00072	0.00073	0.00073
	(!A * B * C * Y)	0.00003	0.00003	0.00003
	(!A * B * C * Y)	-0.00008	-0.00008	-0.00008
	(!A * B * C * Y)	-0.00011	-0.00011	-0.00011

NAND4X6H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND4 cell provides a logical NAND of four inputs (A, B, C, D). The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A	B	C	D	Y
0	x	x	x	1
1	0	x	x	1
1	1	0	x	1
1	1	1	0	1
1	1	1	1	0

Footprint

Cell Name	Area
NAND4X6H7H	5.32000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A	B	C	D	Y
NAND4X6H7H	0.00324	0.00327	0.00331	0.00340	0.06293

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND4X6H7H	0.00000	0.03575	0.09728

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4X6H7H	A->Y (FR)	0.02590	0.13805	0.50254
	B->Y (FR)	0.02500	0.13462	0.49876
	C->Y (FR)	0.02311	0.13018	0.49369
	D->Y (FR)	0.01996	0.12437	0.48883

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4X6H7H	A->Y (RF)	0.06512	0.23869	0.71580
	B->Y (RF)	0.06239	0.23753	0.73216
	C->Y (RF)	0.05588	0.23260	0.74829
	D->Y (RF)	0.04443	0.21408	0.71841

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4X6H7H	A	0.00560	0.00575	0.00588
	A	-0.00066	-0.00066	-0.00065
	A	0.00069	0.00070	0.00070
	A	-0.00048	-0.00038	-0.00030
	B	0.00497	0.00513	0.00526
	B	-0.00066	-0.00066	-0.00060
	B	0.00051	0.00052	0.00057
	B	-0.00049	-0.00036	-0.00026
	C	0.00431	0.00447	0.00460
	C	-0.00066	-0.00066	-0.00062
	C	0.00032	0.00033	0.00040
	C	-0.00051	-0.00036	-0.00025
	D	0.00361	0.00376	0.00391
	D	-0.00066	-0.00065	-0.00064
	D	0.00009	0.00012	0.00014
	D	-0.00053	-0.00035	-0.00020

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4X6H7H	A	-0.00051	-0.00038	-0.00030
	A	0.00065	0.00066	0.00066
	A	-0.00070	-0.00070	-0.00069
	A	0.00628	0.00639	0.00648
	B	-0.00051	-0.00039	-0.00030
	B	0.00064	0.00066	0.00067
	B	-0.00057	-0.00052	-0.00051
	B	0.00539	0.00550	0.00560
	C	-0.00050	-0.00039	-0.00029
	C	0.00065	0.00066	0.00066
	C	-0.00038	-0.00033	-0.00032
	C	0.00454	0.00464	0.00473
	D	-0.00056	-0.00042	-0.00030
	D	0.00064	0.00066	0.00066
	D	-0.00012	-0.00012	-0.00009
	D	0.00354	0.00369	0.00383

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X6H7H	(B * C * !D * Y)	-0.00070	-0.00070	-0.00069
	(B * C * !D * Y)	-0.00004	-0.00004	-0.00004
	(B * C * !D * Y)	0.00006	0.00008	0.00008
	(B * C * !D * Y)	0.00077	0.00078	0.00079
	(B * !C * D * Y)	-0.00070	-0.00070	-0.00069
	(B * !C * D * Y)	-0.00004	-0.00004	-0.00004
	(B * !C * D * Y)	0.00008	0.00008	0.00008
	(B * !C * D * Y)	0.00078	0.00079	0.00079
	(B * !C * !D * Y)	-0.00070	-0.00070	-0.00069
	(B * !C * !D * Y)	-0.00004	-0.00004	-0.00004
	(B * !C * !D * Y)	0.00008	0.00008	0.00008
	(B * !C * !D * Y)	0.00078	0.00079	0.00079
	(!B * C * D * Y)	-0.00070	-0.00070	-0.00069
	(!B * C * D * Y)	-0.00004	-0.00004	-0.00004
	(!B * C * D * Y)	0.00007	0.00007	0.00007
	(!B * C * D * Y)	0.00082	0.00083	0.00083
	(!B * !D * Y)	-0.00070	-0.00070	-0.00069
	(!B * !D * Y)	-0.00004	-0.00004	-0.00004
	(!B * !D * Y)	0.00007	0.00007	0.00008
	(!B * !D * Y)	0.00081	0.00081	0.00082
	(!B * !C * D * Y)	-0.00070	-0.00070	-0.00069
	(!B * !C * D * Y)	-0.00004	-0.00004	-0.00004
	(!B * !C * D * Y)	0.00007	0.00008	0.00008
	(!B * !C * D * Y)	0.00081	0.00081	0.00082

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X6H7H	(B * C * !D * Y)	0.00069	0.00070	0.00071
	(B * C * !D * Y)	0.00004	0.00004	0.00005
	(B * C * !D * Y)	-0.00008	-0.00008	-0.00006
	(B * C * !D * Y)	-0.00078	-0.00072	-0.00063
	(B * !C * D * Y)	0.00070	0.00070	0.00070
	(B * !C * D * Y)	0.00004	0.00005	0.00005
	(B * !C * D * Y)	-0.00008	-0.00008	-0.00008
	(B * !C * D * Y)	-0.00079	-0.00073	-0.00065
	(B * !C * !D * Y)	0.00069	0.00070	0.00070
	(B * !C * !D * Y)	0.00004	0.00004	0.00004
	(B * !C * !D * Y)	-0.00008	-0.00008	-0.00008
	(B * !C * !D * Y)	-0.00079	-0.00073	-0.00065
	(!B * C * D * Y)	0.00069	0.00070	0.00070
	(!B * C * D * Y)	0.00004	0.00005	0.00005
	(!B * C * D * Y)	-0.00007	-0.00007	-0.00007
	(!B * C * D * Y)	-0.00082	-0.00077	-0.00070
	(!B * !D * Y)	0.00069	0.00070	0.00070
	(!B * !D * Y)	0.00004	0.00004	0.00005
	(!B * !D * Y)	-0.00008	-0.00007	-0.00007
	(!B * !D * Y)	-0.00082	-0.00077	-0.00070
	(!B * !C * D * Y)	0.00069	0.00070	0.00070
	(!B * !C * D * Y)	0.00004	0.00004	0.00005
	(!B * !C * D * Y)	-0.00008	-0.00007	-0.00007
	(!B * !C * D * Y)	-0.00082	-0.00077	-0.00070

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X6H7H	(A * C * !D * Y)	-0.00071	-0.00071	-0.00071
	(A * C * !D * Y)	-0.00004	-0.00004	-0.00004
	(A * C * !D * Y)	0.00007	0.00008	0.00010
	(A * C * !D * Y)	0.00078	0.00078	0.00079
	(A * !C * D * Y)	-0.00071	-0.00071	-0.00070
	(A * !C * D * Y)	-0.00004	-0.00004	-0.00004
	(A * !C * D * Y)	0.00007	0.00007	0.00007
	(A * !C * D * Y)	0.00082	0.00082	0.00083
	(A * !C * !D * Y)	-0.00071	-0.00071	-0.00070
	(A * !C * !D * Y)	-0.00005	-0.00004	-0.00004
	(A * !C * !D * Y)	0.00007	0.00007	0.00007
	(A * !C * !D * Y)	0.00081	0.00081	0.00082
	(!A * C * D * Y)	-0.00071	-0.00071	-0.00070
	(!A * C * D * Y)	-0.00004	-0.00004	-0.00004
	(!A * C * D * Y)	0.00022	0.00022	0.00022
	(!A * C * D * Y)	0.00019	0.00019	0.00019
	(!A * C * !D * Y)	-0.00072	-0.00072	-0.00071
	(!A * C * !D * Y)	-0.00004	-0.00004	-0.00004
	(!A * C * !D * Y)	0.00024	0.00025	0.00025
	(!A * C * !D * Y)	0.00018	0.00018	0.00018
	(!A * !C * D * Y)	-0.00071	-0.00071	-0.00070
	(!A * !C * D * Y)	-0.00004	-0.00004	-0.00004
	(!A * !C * D * Y)	0.00025	0.00025	0.00025
	(!A * !C * D * Y)	0.00019	0.00019	0.00020
	(!A * !C * !D * Y)	-0.00071	-0.00071	-0.00070
	(!A * !C * !D * Y)	-0.00004	-0.00004	-0.00004
	(!A * !C * !D * Y)	0.00025	0.00025	0.00026
	(!A * !C * !D * Y)	0.00019	0.00019	0.00019

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X6H7H	(A * C * !D * Y)	0.00071	0.00072	0.00072
	(A * C * !D * Y)	0.00004	0.00004	0.00005
	(A * C * !D * Y)	-0.00010	-0.00008	-0.00007
	(A * C * !D * Y)	-0.00079	-0.00072	-0.00061
	(A * !C * D * Y)	0.00071	0.00071	0.00071
	(A * !C * D * Y)	0.00004	0.00004	0.00005
	(A * !C * D * Y)	-0.00007	-0.00007	-0.00007
	(A * !C * D * Y)	-0.00082	-0.00077	-0.00069
	(A * !C * !D * Y)	0.00071	0.00071	0.00071
	(A * !C * !D * Y)	0.00004	0.00005	0.00005
	(A * !C * !D * Y)	-0.00007	-0.00007	-0.00007
	(A * !C * !D * Y)	-0.00082	-0.00077	-0.00070
	(!A * C * D * Y)	0.00071	0.00071	0.00071
	(!A * C * D * Y)	0.00004	0.00004	0.00005
	(!A * C * D * Y)	-0.00022	-0.00021	-0.00021
	(!A * C * D * Y)	-0.00019	-0.00019	-0.00019
	(!A * C * !D * Y)	0.00071	0.00072	0.00072
	(!A * C * !D * Y)	0.00004	0.00004	0.00005
	(!A * C * !D * Y)	-0.00025	-0.00025	-0.00024
	(!A * C * !D * Y)	-0.00018	-0.00018	-0.00018
	(!A * !C * D * Y)	0.00070	0.00071	0.00071
	(!A * !C * D * Y)	0.00004	0.00004	0.00005
	(!A * !C * D * Y)	-0.00025	-0.00025	-0.00025
	(!A * !C * D * Y)	-0.00019	-0.00019	-0.00019
	(!A * !C * !D * Y)	0.00070	0.00071	0.00071
	(!A * !C * !D * Y)	0.00004	0.00004	0.00005
	(!A * !C * !D * Y)	-0.00026	-0.00025	-0.00025
	(!A * !C * !D * Y)	-0.00019	-0.00019	-0.00019

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X6H7H	(A * B * !D * Y)	-0.00072	-0.00071	-0.00070
	(A * B * !D * Y)	-0.00004	-0.00004	-0.00004
	(A * B * !D * Y)	0.00006	0.00007	0.00007
	(A * B * !D * Y)	0.00081	0.00081	0.00082
	(!B * D * Y)	-0.00073	-0.00072	-0.00072
	(!B * D * Y)	-0.00004	-0.00004	-0.00004
	(!B * D * Y)	0.00021	0.00021	0.00021
	(!B * D * Y)	0.00019	0.00019	0.00019
	(!B * !D * Y)	-0.00073	-0.00073	-0.00072
	(!B * !D * Y)	-0.00004	-0.00004	-0.00004
	(!B * !D * Y)	0.00024	0.00025	0.00025
	(!B * !D * Y)	0.00019	0.00019	0.00019
	(!A * B * D * Y)	-0.00073	-0.00072	-0.00071
	(!A * B * D * Y)	-0.00004	-0.00004	-0.00004
	(!A * B * D * Y)	0.00020	0.00021	0.00021
	(!A * B * D * Y)	0.00016	0.00017	0.00018
	(!A * B * !D * Y)	-0.00073	-0.00072	-0.00072
	(!A * B * !D * Y)	-0.00004	-0.00004	-0.00004
	(!A * B * !D * Y)	0.00024	0.00025	0.00025
	(!A * B * !D * Y)	0.00017	0.00017	0.00018

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X6H7H	(A * B * !D * Y)	0.00072	0.00074	0.00079
	(A * B * !D * Y)	0.00004	0.00004	0.00005
	(A * B * !D * Y)	-0.00007	-0.00007	-0.00006
	(A * B * !D * Y)	-0.00081	-0.00074	-0.00065
	(!B * D * Y)	0.00073	0.00073	0.00073
	(!B * D * Y)	0.00004	0.00004	0.00005
	(!B * D * Y)	-0.00021	-0.00021	-0.00021
	(!B * D * Y)	-0.00019	-0.00019	-0.00019
	(!B * !D * Y)	0.00073	0.00074	0.00074
	(!B * !D * Y)	0.00004	0.00004	0.00005
	(!B * !D * Y)	-0.00025	-0.00025	-0.00024
	(!B * !D * Y)	-0.00019	-0.00019	-0.00019
	(!A * B * D * Y)	0.00073	0.00073	0.00073
	(!A * B * D * Y)	0.00004	0.00004	0.00005
	(!A * B * D * Y)	-0.00021	-0.00021	-0.00020
	(!A * B * D * Y)	-0.00018	-0.00017	-0.00016
	(!A * B * !D * Y)	0.00073	0.00073	0.00074
	(!A * B * !D * Y)	0.00004	0.00004	0.00005
	(!A * B * !D * Y)	-0.00025	-0.00025	-0.00024
	(!A * B * !D * Y)	-0.00018	-0.00017	-0.00017

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X6H7H	(!C * Y)	-0.00106	-0.00105	-0.00104
	(!C * Y)	-0.00004	-0.00004	-0.00004
	(!C * Y)	0.00013	0.00014	0.00014
	(!C * Y)	0.00017	0.00017	0.00018
	(!B * C * Y)	-0.00105	-0.00104	-0.00103
	(!B * C * Y)	-0.00004	-0.00004	-0.00002
	(!B * C * Y)	0.00013	0.00013	0.00013
	(!B * C * Y)	0.00017	0.00017	0.00018
	(!A * B * C * Y)	-0.00105	-0.00104	-0.00102
	(!A * B * C * Y)	-0.00004	-0.00004	-0.00002
	(!A * B * C * Y)	0.00013	0.00013	0.00013
	(!A * B * C * Y)	0.00016	0.00017	0.00017

Passive power(pJ) for D falling (conditional):

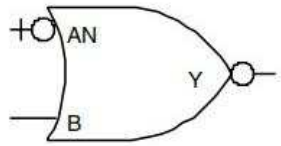
Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X6H7H	(!C * Y)	0.00104	0.00105	0.00106
	(!C * Y)	0.00004	0.00004	0.00005
	(!C * Y)	-0.00013	-0.00013	-0.00013
	(!C * Y)	-0.00017	-0.00017	-0.00017
	(!B * C * Y)	0.00104	0.00105	0.00106
	(!B * C * Y)	0.00004	0.00005	0.00005
	(!B * C * Y)	-0.00013	-0.00013	-0.00013
	(!B * C * Y)	-0.00017	-0.00016	-0.00016
	(!A * B * C * Y)	0.00104	0.00105	0.00106
	(!A * B * C * Y)	0.00004	0.00004	0.00005
	(!A * B * C * Y)	-0.00013	-0.00013	-0.00013
	(!A * B * C * Y)	-0.00016	-0.00016	-0.00016

NOR2BX0P5H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NOR2B cell provides a logical NOR of one inverted input (AN) and one non-inverted input (B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
AN	B	Y
0	x	0
1	0	1
1	1	0

Footprint

Cell Name	Area
NOR2BX0P5H7H	1.68000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	AN	B	Y
NOR2BX0P5H7H	0.00092	0.00086	0.01522

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR2BX0P5H7H	0.00000	0.01262	0.01520

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2BX0P5H7H	AN->Y (RR)	0.06870	0.22450	0.60257
	B->Y (FR)	0.04580	0.21606	0.72374

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2BX0P5H7H	AN->Y (FF)	0.05117	0.14148	0.34639
	B->Y (RF)	0.01874	0.11159	0.44299

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2BX0P5H7H	AN	0.00061	0.00065	0.00070
	AN	-0.00005	-0.00005	-0.00004
	AN	0.00002	0.00003	0.00003
	AN	0.00098	0.00102	0.00107
	B	0.00059	0.00063	0.00067
	B	-0.00002	-0.00002	-0.00002
	B	0.00004	0.00005	0.00005
	B	-0.00007	-0.00003	0.00000

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2BX0P5H7H	AN	0.00093	0.00097	0.00101
	AN	0.00004	0.00005	0.00005
	AN	-0.00003	-0.00003	-0.00002
	AN	0.00055	0.00058	0.00062
	B	-0.00012	-0.00008	-0.00005
	B	0.00002	0.00002	0.00002
	B	-0.00005	-0.00005	-0.00004
	B	0.00054	0.00058	0.00061

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX0P5H7H	(B * !Y)	-0.00004	-0.00002	0.00001
	(B * !Y)	0.00004	0.00004	0.00004
	(B * !Y)	-0.00002	-0.00003	-0.00002
	(B * !Y)	0.00071	0.00073	0.00076

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX0P5H7H	(B * !Y)	0.00083	0.00085	0.00088
	(B * !Y)	-0.00004	-0.00004	-0.00004
	(B * !Y)	0.00002	0.00003	0.00003
	(B * !Y)	0.00007	0.00010	0.00013

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX0P5H7H	(!AN * !Y)	-0.00004	-0.00004	-0.00004
	(!AN * !Y)	-0.00003	-0.00003	-0.00003
	(!AN * !Y)	0.00000	0.00000	0.00001
	(!AN * !Y)	0.00032	0.00032	0.00032

Passive power(pJ) for B falling (conditional):

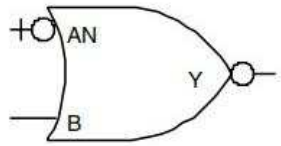
Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX0P5H7H	(!AN * !Y)	0.00004	0.00004	0.00004
	(!AN * !Y)	0.00003	0.00003	0.00003
	(!AN * !Y)	-0.00000	-0.00000	-0.00000
	(!AN * !Y)	-0.00032	-0.00032	-0.00031

NOR2BX0P7H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NOR2B cell provides a logical NOR of one inverted input (AN) and one non-inverted input (B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
AN	B	Y
0	x	0
1	0	1
1	1	0

Footprint

Cell Name	Area
NOR2BX0P7H7H	1.68000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	AN	B	Y
NOR2BX0P7H7H	0.00093	0.00092	0.01735

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR2BX0P7H7H	0.00000	0.01370	0.01787

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2BX0P7H7H	AN->Y (RR)	0.06653	0.22423	0.60727
	B->Y (FR)	0.04239	0.21339	0.72536

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2BX0P7H7H	AN->Y (FF)	0.05168	0.14356	0.35286
	B->Y (RF)	0.01771	0.11135	0.44815

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2BX0P7H7H	AN	0.00068	0.00072	0.00077
	AN	-0.00006	-0.00006	-0.00005
	AN	0.00003	0.00003	0.00003
	AN	0.00102	0.00106	0.00111
	B	0.00063	0.00068	0.00072
	B	-0.00002	-0.00002	-0.00002
	B	0.00005	0.00005	0.00005
	B	-0.00008	-0.00004	-0.00000

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2BX0P7H7H	AN	0.00097	0.00101	0.00106
	AN	0.00005	0.00006	0.00006
	AN	-0.00003	-0.00003	-0.00003
	AN	0.00061	0.00065	0.00069
	B	-0.00013	-0.00009	-0.00006
	B	0.00002	0.00002	0.00003
	B	-0.00005	-0.00005	-0.00005
	B	0.00059	0.00063	0.00066

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX0P7H7H	(B * !Y)	-0.00003	-0.00000	0.00003
	(B * !Y)	0.00004	0.00004	0.00005
	(B * !Y)	-0.00003	-0.00003	-0.00002
	(B * !Y)	0.00074	0.00076	0.00079

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX0P7H7H	(B * !Y)	0.00085	0.00088	0.00090
	(B * !Y)	-0.00005	-0.00004	-0.00004
	(B * !Y)	0.00003	0.00003	0.00003
	(B * !Y)	0.00009	0.00011	0.00014

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX0P7H7H	(!AN * !Y)	-0.00005	-0.00005	-0.00005
	(!AN * !Y)	-0.00004	-0.00004	-0.00004
	(!AN * !Y)	0.00000	0.00000	0.00000
	(!AN * !Y)	0.00034	0.00034	0.00034

Passive power(pJ) for B falling (conditional):

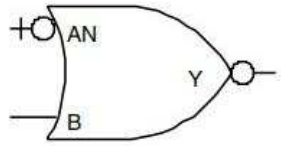
Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX0P7H7H	(!AN * !Y)	0.00005	0.00005	0.00005
	(!AN * !Y)	0.00004	0.00004	0.00004
	(!AN * !Y)	-0.00000	-0.00000	-0.00000
	(!AN * !Y)	-0.00034	-0.00034	-0.00033

NOR2BX12H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NOR2B cell provides a logical NOR of one inverted input (AN) and one non-inverted input (B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
AN	B	Y
0	x	0
1	0	1
1	1	0

Footprint

Cell Name	Area
NOR2BX12H7H	5.88000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	AN	B	Y
NOR2BX12H7H	0.00239	0.00679	0.16249

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR2BX12H7H	0.00000	0.14795	0.30839

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2BX12H7H	AN->Y (RR)	0.06267	0.23896	0.66917
	B->Y (FR)	0.02512	0.19923	0.73139

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2BX12H7H	AN->Y (FF)	0.05913	0.16663	0.41552
	B->Y (RF)	0.01228	0.10545	0.45782

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2BX12H7H	AN	0.00664	0.00691	0.00719
	AN	-0.00069	-0.00069	-0.00067
	AN	0.00044	0.00045	0.00046
	AN	0.00499	0.00526	0.00554
	B	0.00474	0.00520	0.00556
	B	-0.00028	-0.00026	-0.00022
	B	0.00052	0.00052	0.00053
	B	-0.00067	-0.00037	-0.00005

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2BX12H7H	AN	0.00472	0.00501	0.00525
	AN	0.00067	0.00069	0.00069
	AN	-0.00045	-0.00045	-0.00044
	AN	0.00611	0.00640	0.00666
	B	-0.00121	-0.00083	-0.00056
	B	0.00022	0.00026	0.00031
	B	-0.00053	-0.00052	-0.00050
	B	0.00419	0.00471	0.00500

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX12H7H	(B * !Y)	0.00065	0.00071	0.00079
	(B * !Y)	0.00029	0.00032	0.00033
	(B * !Y)	-0.00012	-0.00012	-0.00012
	(B * !Y)	0.00288	0.00294	0.00301

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX12H7H	(B * !Y)	0.00369	0.00378	0.00389
	(B * !Y)	-0.00033	-0.00032	-0.00029
	(B * !Y)	0.00012	0.00012	0.00013
	(B * !Y)	0.00143	0.00150	0.00159

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX12H7H	(!AN * !Y)	-0.00018	-0.00018	-0.00018
	(!AN * !Y)	-0.00032	-0.00031	-0.00031
	(!AN * !Y)	0.00004	0.00004	0.00005
	(!AN * !Y)	0.00251	0.00253	0.00255

Passive power(pJ) for B falling (conditional):

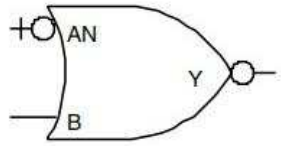
Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX12H7H	(!AN * !Y)	0.00018	0.00018	0.00018
	(!AN * !Y)	0.00033	0.00033	0.00034
	(!AN * !Y)	-0.00005	-0.00004	-0.00004
	(!AN * !Y)	-0.00254	-0.00253	-0.00251

NOR2BX16H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NOR2B cell provides a logical NOR of one inverted input (AN) and one non-inverted input (B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
AN	B	Y
0	x	0
1	0	1
1	1	0

Footprint

Cell Name	Area
NOR2BX16H7H	7.84000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	AN	B	Y
NOR2BX16H7H	0.00358	0.00909	0.21651

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR2BX16H7H	0.00000	0.20230	0.41339

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2BX16H7H	AN->Y (RR)	0.05994	0.23466	0.66036
	B->Y (FR)	0.02474	0.19879	0.73143

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2BX16H7H	AN->Y (FF)	0.05572	0.16146	0.40548
	B->Y (RF)	0.01212	0.10515	0.45774

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2BX16H7H	AN	0.00878	0.00916	0.00954
	AN	-0.00101	-0.00090	-0.00081
	AN	0.00057	0.00058	0.00059
	AN	0.00688	0.00726	0.00763
	B	0.00633	0.00694	0.00742
	B	-0.00036	-0.00035	-0.00026
	B	0.00068	0.00070	0.00072
	B	-0.00092	-0.00052	-0.00009

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2BX16H7H	AN	0.00660	0.00700	0.00733
	AN	0.00081	0.00090	0.00101
	AN	-0.00058	-0.00058	-0.00055
	AN	0.00816	0.00855	0.00891
	B	-0.00166	-0.00114	-0.00078
	B	0.00026	0.00035	0.00038
	B	-0.00070	-0.00070	-0.00068
	B	0.00588	0.00628	0.00670

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX16H7H	(B * !Y)	0.00080	0.00090	0.00103
	(B * !Y)	0.00040	0.00043	0.00044
	(B * !Y)	-0.00018	-0.00018	-0.00017
	(B * !Y)	0.00410	0.00418	0.00430

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX16H7H	(B * !Y)	0.00522	0.00534	0.00550
	(B * !Y)	-0.00044	-0.00043	-0.00040
	(B * !Y)	0.00017	0.00018	0.00018
	(B * !Y)	0.00189	0.00199	0.00213

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX16H7H	(!AN * !Y)	-0.00024	-0.00024	-0.00024
	(!AN * !Y)	-0.00043	-0.00042	-0.00042
	(!AN * !Y)	0.00005	0.00006	0.00006
	(!AN * !Y)	0.00335	0.00338	0.00340

Passive power(pJ) for B falling (conditional):

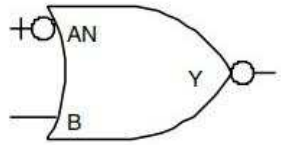
Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX16H7H	(!AN * !Y)	0.00024	0.00024	0.00025
	(!AN * !Y)	0.00044	0.00044	0.00045
	(!AN * !Y)	-0.00006	-0.00006	-0.00005
	(!AN * !Y)	-0.00339	-0.00337	-0.00332

NOR2BX1H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NOR2B cell provides a logical NOR of one inverted input (AN) and one non-inverted input (B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
AN	B	Y
0	x	0
1	0	1
1	1	0

Footprint

Cell Name	Area
NOR2BX1H7H	1.40000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	AN	B	Y
NOR2BX1H7H	0.00100	0.00104	0.02078

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR2BX1H7H	0.00000	0.01611	0.02667

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2BX1H7H	AN->Y (RR)	0.06580	0.22674	0.61794
	B->Y (FR)	0.03936	0.21164	0.72961

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2BX1H7H	AN->Y (FF)	0.05495	0.15073	0.37067
	B->Y (RF)	0.01724	0.11335	0.45883

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2BX1H7H	AN	0.00079	0.00084	0.00089
	AN	-0.00007	-0.00007	-0.00007
	AN	0.00004	0.00004	0.00004
	AN	0.00113	0.00118	0.00123
	B	0.00073	0.00077	0.00083
	B	-0.00003	-0.00003	-0.00002
	B	0.00006	0.00006	0.00007
	B	-0.00010	-0.00006	-0.00001

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2BX1H7H	AN	0.00107	0.00111	0.00116
	AN	0.00007	0.00007	0.00007
	AN	-0.00004	-0.00004	-0.00004
	AN	0.00070	0.00075	0.00080
	B	-0.00015	-0.00010	-0.00006
	B	0.00002	0.00003	0.00005
	B	-0.00006	-0.00006	-0.00006
	B	0.00067	0.00073	0.00077

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX1H7H	(B * !Y)	-0.00002	0.00001	0.00003
	(B * !Y)	0.00005	0.00005	0.00005
	(B * !Y)	-0.00003	-0.00003	-0.00003
	(B * !Y)	0.00082	0.00084	0.00088

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX1H7H	(B * !Y)	0.00094	0.00096	0.00100
	(B * !Y)	-0.00005	-0.00005	-0.00005
	(B * !Y)	0.00003	0.00003	0.00003
	(B * !Y)	0.00010	0.00012	0.00016

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX1H7H	(!AN * !Y)	-0.00006	-0.00006	-0.00006
	(!AN * !Y)	-0.00004	-0.00004	-0.00004
	(!AN * !Y)	0.00000	0.00001	0.00001
	(!AN * !Y)	0.00037	0.00038	0.00038

Passive power(pJ) for B falling (conditional):

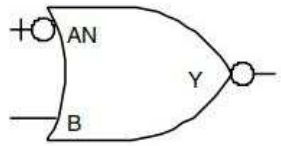
Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX1H7H	(!AN * !Y)	0.00006	0.00006	0.00006
	(!AN * !Y)	0.00004	0.00004	0.00004
	(!AN * !Y)	-0.00001	-0.00001	-0.00000
	(!AN * !Y)	-0.00038	-0.00038	-0.00037

NOR2BX1P4H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NOR2B cell provides a logical NOR of one inverted input (AN) and one non-inverted input (B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
AN	B	Y
0	x	0
1	0	1
1	1	0

Footprint

Cell Name	Area
NOR2BX1P4H7H	1.40000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	AN	B	Y
NOR2BX1P4H7H	0.00102	0.00113	0.02363

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR2BX1P4H7H	0.00000	0.01922	0.03750

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2BX1P4H7H	AN->Y (RR)	0.06553	0.22806	0.62350
	B->Y (FR)	0.03785	0.21095	0.73079

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2BX1P4H7H	AN->Y (FF)	0.05628	0.15362	0.37775
	B->Y (RF)	0.01685	0.11374	0.46312

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2BX1P4H7H	AN	0.00091	0.00097	0.00103
	AN	-0.00009	-0.00009	-0.00009
	AN	0.00005	0.00005	0.00005
	AN	0.00120	0.00126	0.00132
	B	0.00082	0.00088	0.00093
	B	-0.00004	-0.00003	-0.00001
	B	0.00007	0.00007	0.00008
	B	-0.00008	-0.00003	0.00002

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2BX1P4H7H	AN	0.00111	0.00116	0.00121
	AN	0.00009	0.00009	0.00009
	AN	-0.00005	-0.00005	-0.00005
	AN	0.00079	0.00084	0.00089
	B	-0.00017	-0.00011	-0.00007
	B	0.00001	0.00003	0.00004
	B	-0.00007	-0.00007	-0.00007
	B	0.00073	0.00079	0.00083

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX1P4H7H	(B * !Y)	-0.00000	0.00002	0.00005
	(B * !Y)	0.00005	0.00005	0.00006
	(B * !Y)	-0.00003	-0.00003	-0.00003
	(B * !Y)	0.00085	0.00088	0.00091

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX1P4H7H	(B * !Y)	0.00097	0.00099	0.00103
	(B * !Y)	-0.00006	-0.00005	-0.00005
	(B * !Y)	0.00003	0.00003	0.00003
	(B * !Y)	0.00011	0.00014	0.00017

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX1P4H7H	(!AN * !Y)	-0.00006	-0.00006	-0.00006
	(!AN * !Y)	-0.00005	-0.00005	-0.00004
	(!AN * !Y)	0.00001	0.00001	0.00001
	(!AN * !Y)	0.00040	0.00041	0.00041

Passive power(pJ) for B falling (conditional):

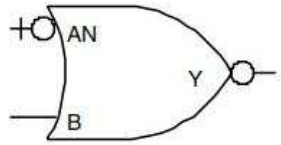
Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX1P4H7H	(!AN * !Y)	0.00006	0.00006	0.00006
	(!AN * !Y)	0.00005	0.00005	0.00005
	(!AN * !Y)	-0.00001	-0.00001	-0.00001
	(!AN * !Y)	-0.00041	-0.00041	-0.00040

NOR2BX2H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NOR2B cell provides a logical NOR of one inverted input (AN) and one non-inverted input (B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
AN	B	Y
0	x	0
1	0	1
1	1	0

Footprint

Cell Name	Area
NOR2BX2H7H	1.68000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	AN	B	Y
NOR2BX2H7H	0.00105	0.00121	0.02738

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR2BX2H7H	0.00000	0.02483	0.05648

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2BX2H7H	AN->Y (RR)	0.06503	0.23034	0.63302
	B->Y (FR)	0.03381	0.20788	0.73204

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2BX2H7H	AN->Y (FF)	0.05814	0.15708	0.38581
	B->Y (RF)	0.01528	0.11109	0.46087

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2BX2H7H	AN	0.00101	0.00107	0.00114
	AN	-0.00013	-0.00011	-0.00009
	AN	0.00006	0.00007	0.00007
	AN	0.00127	0.00133	0.00140
	B	0.00085	0.00092	0.00098
	B	-0.00005	-0.00004	-0.00002
	B	0.00009	0.00009	0.00009
	B	-0.00011	-0.00006	-0.00001

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2BX2H7H	AN	0.00119	0.00125	0.00132
	AN	0.00009	0.00011	0.00013
	AN	-0.00007	-0.00007	-0.00006
	AN	0.00090	0.00095	0.00102
	B	-0.00019	-0.00013	-0.00009
	B	0.00002	0.00004	0.00007
	B	-0.00009	-0.00009	-0.00008
	B	0.00079	0.00085	0.00090

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX2H7H	(B * !Y)	0.00002	0.00005	0.00009
	(B * !Y)	0.00005	0.00006	0.00006
	(B * !Y)	-0.00003	-0.00003	-0.00003
	(B * !Y)	0.00091	0.00094	0.00097

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX2H7H	(B * !Y)	0.00104	0.00106	0.00111
	(B * !Y)	-0.00006	-0.00006	-0.00005
	(B * !Y)	0.00003	0.00003	0.00003
	(B * !Y)	0.00014	0.00016	0.00020

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX2H7H	(!AN * !Y)	-0.00007	-0.00007	-0.00007
	(!AN * !Y)	-0.00005	-0.00006	-0.00005
	(!AN * !Y)	0.00000	0.00001	0.00001
	(!AN * !Y)	0.00043	0.00043	0.00043

Passive power(pJ) for B falling (conditional):

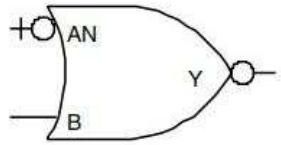
Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX2H7H	(!AN * !Y)	0.00007	0.00007	0.00007
	(!AN * !Y)	0.00006	0.00006	0.00006
	(!AN * !Y)	-0.00001	-0.00001	-0.00000
	(!AN * !Y)	-0.00043	-0.00043	-0.00043

NOR2BX3H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NOR2B cell provides a logical NOR of one inverted input (AN) and one non-inverted input (B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
AN	B	Y
0	x	0
1	0	1
1	1	0

Footprint

Cell Name	Area
NOR2BX3H7H	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	AN	B	Y
NOR2BX3H7H	0.00113	0.00200	0.04321

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR2BX3H7H	0.00000	0.03183	0.05388

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2BX3H7H	AN->Y (RR)	0.06797	0.23860	0.65432
	B->Y (FR)	0.03158	0.20421	0.72845

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2BX3H7H	AN->Y (FF)	0.05932	0.16172	0.39804
	B->Y (RF)	0.01449	0.10871	0.45713

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2BX3H7H	AN	0.00193	0.00202	0.00212
	AN	-0.00016	-0.00016	-0.00016
	AN	0.00010	0.00011	0.00011
	AN	0.00185	0.00194	0.00204
	B	0.00147	0.00154	0.00164
	B	-0.00007	-0.00006	-0.00006
	B	0.00013	0.00013	0.00014
	B	-0.00015	-0.00007	0.00002

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2BX3H7H	AN	0.00171	0.00180	0.00189
	AN	0.00016	0.00016	0.00016
	AN	-0.00011	-0.00011	-0.00010
	AN	0.00171	0.00181	0.00190
	B	-0.00033	-0.00023	-0.00016
	B	0.00006	0.00006	0.00007
	B	-0.00013	-0.00013	-0.00012
	B	0.00129	0.00137	0.00145

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX3H7H	(B * !Y)	0.00010	0.00013	0.00018
	(B * !Y)	0.00008	0.00009	0.00009
	(B * !Y)	-0.00004	-0.00004	-0.00004
	(B * !Y)	0.00108	0.00111	0.00114

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX3H7H	(B * !Y)	0.00139	0.00143	0.00148
	(B * !Y)	-0.00009	-0.00009	-0.00008
	(B * !Y)	0.00004	0.00004	0.00004
	(B * !Y)	0.00042	0.00045	0.00050

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX3H7H	(!AN * !Y)	-0.00006	-0.00006	-0.00006
	(!AN * !Y)	-0.00008	-0.00008	-0.00008
	(!AN * !Y)	0.00001	0.00001	0.00001
	(!AN * !Y)	0.00077	0.00077	0.00078

Passive power(pJ) for B falling (conditional):

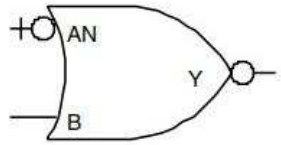
Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX3H7H	(!AN * !Y)	0.00006	0.00006	0.00006
	(!AN * !Y)	0.00008	0.00008	0.00008
	(!AN * !Y)	-0.00001	-0.00001	-0.00001
	(!AN * !Y)	-0.00078	-0.00077	-0.00077

NOR2BX4H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NOR2B cell provides a logical NOR of one inverted input (AN) and one non-inverted input (B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
AN	B	Y
0	x	0
1	0	1
1	1	0

Footprint

Cell Name	Area
NOR2BX4H7H	3.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	AN	B	Y
NOR2BX4H7H	0.00121	0.00231	0.05420

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR2BX4H7H	0.00000	0.04998	0.10455

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2BX4H7H	AN->Y (RR)	0.06442	0.23656	0.65611
	B->Y (FR)	0.02866	0.20250	0.73089

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2BX4H7H	AN->Y (FF)	0.05823	0.16175	0.40098
	B->Y (RF)	0.01350	0.10762	0.45831

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2BX4H7H	AN	0.00227	0.00237	0.00248
	AN	-0.00022	-0.00022	-0.00022
	AN	0.00014	0.00014	0.00014
	AN	0.00203	0.00214	0.00225
	B	0.00164	0.00179	0.00191
	B	-0.00009	-0.00009	-0.00007
	B	0.00017	0.00017	0.00018
	B	-0.00019	-0.00010	0.00001

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2BX4H7H	AN	0.00190	0.00201	0.00211
	AN	0.00022	0.00022	0.00022
	AN	-0.00014	-0.00014	-0.00014
	AN	0.00204	0.00215	0.00225
	B	-0.00042	-0.00030	-0.00021
	B	0.00007	0.00009	0.00010
	B	-0.00018	-0.00017	-0.00017
	B	0.00142	0.00158	0.00167

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX4H7H	(B * !Y)	0.00016	0.00019	0.00024
	(B * !Y)	0.00010	0.00011	0.00012
	(B * !Y)	-0.00005	-0.00005	-0.00005
	(B * !Y)	0.00123	0.00126	0.00131

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX4H7H	(B * !Y)	0.00154	0.00158	0.00164
	(B * !Y)	-0.00012	-0.00011	-0.00010
	(B * !Y)	0.00005	0.00005	0.00005
	(B * !Y)	0.00046	0.00049	0.00055

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX4H7H	(!AN * !Y)	-0.00008	-0.00008	-0.00008
	(!AN * !Y)	-0.00011	-0.00011	-0.00010
	(!AN * !Y)	0.00001	0.00002	0.00002
	(!AN * !Y)	0.00085	0.00086	0.00086

Passive power(pJ) for B falling (conditional):

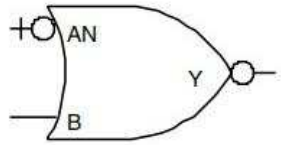
Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX4H7H	(!AN * !Y)	0.00008	0.00008	0.00008
	(!AN * !Y)	0.00011	0.00011	0.00011
	(!AN * !Y)	-0.00002	-0.00002	-0.00001
	(!AN * !Y)	-0.00086	-0.00085	-0.00085

NOR2BX6H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NOR2B cell provides a logical NOR of one inverted input (AN) and one non-inverted input (B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
AN	B	Y
0	x	0
1	0	1
1	1	0

Footprint

Cell Name	Area
NOR2BX6H7H	3.64000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	AN	B	Y
NOR2BX6H7H	0.00133	0.00346	0.08149

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR2BX6H7H	0.00000	0.07379	0.15419

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2BX6H7H	AN->Y (RR)	0.06627	0.24279	0.67468
	B->Y (FR)	0.02733	0.20150	0.73186

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2BX6H7H	AN->Y (FF)	0.06256	0.17070	0.42235
	B->Y (RF)	0.01306	0.10697	0.45892

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2BX6H7H	AN	0.00334	0.00348	0.00362
	AN	-0.00035	-0.00034	-0.00031
	AN	0.00022	0.00022	0.00023
	AN	0.00262	0.00276	0.00290
	B	0.00246	0.00268	0.00286
	B	-0.00014	-0.00013	-0.00011
	B	0.00026	0.00026	0.00027
	B	-0.00031	-0.00015	0.00001

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2BX6H7H	AN	0.00250	0.00265	0.00278
	AN	0.00031	0.00034	0.00035
	AN	-0.00023	-0.00022	-0.00022
	AN	0.00310	0.00324	0.00338
	B	-0.00059	-0.00041	-0.00027
	B	0.00011	0.00013	0.00016
	B	-0.00027	-0.00026	-0.00025
	B	0.00215	0.00241	0.00256

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX6H7H	(B * !Y)	0.00030	0.00034	0.00040
	(B * !Y)	0.00015	0.00016	0.00017
	(B * !Y)	-0.00006	-0.00006	-0.00006
	(B * !Y)	0.00154	0.00158	0.00164

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX6H7H	(B * !Y)	0.00199	0.00204	0.00210
	(B * !Y)	-0.00017	-0.00016	-0.00015
	(B * !Y)	0.00006	0.00006	0.00006
	(B * !Y)	0.00074	0.00078	0.00083

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX6H7H	(!AN * !Y)	-0.00011	-0.00011	-0.00011
	(!AN * !Y)	-0.00016	-0.00016	-0.00015
	(!AN * !Y)	0.00002	0.00002	0.00002
	(!AN * !Y)	0.00126	0.00127	0.00128

Passive power(pJ) for B falling (conditional):

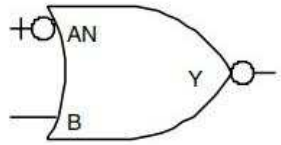
Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX6H7H	(!AN * !Y)	0.00011	0.00011	0.00011
	(!AN * !Y)	0.00017	0.00017	0.00017
	(!AN * !Y)	-0.00002	-0.00002	-0.00002
	(!AN * !Y)	-0.00127	-0.00127	-0.00126

NOR2BX8H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NOR2B cell provides a logical NOR of one inverted input (AN) and one non-inverted input (B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
AN	B	Y
0	x	0
1	0	1
1	1	0

Footprint

Cell Name	Area
NOR2BX8H7H	4.48000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	AN	B	Y
NOR2BX8H7H	0.00216	0.00454	0.10840

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR2BX8H7H	0.00000	0.10025	0.20910

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2BX8H7H	AN->Y (RR)	0.05893	0.23044	0.64827
	B->Y (FR)	0.02631	0.20036	0.73171

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2BX8H7H	AN->Y (FF)	0.05348	0.15580	0.39074
	B->Y (RF)	0.01270	0.10624	0.45812

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2BX8H7H	AN	0.00440	0.00460	0.00480
	AN	-0.00045	-0.00044	-0.00044
	AN	0.00028	0.00028	0.00029
	AN	0.00373	0.00393	0.00413
	B	0.00322	0.00351	0.00375
	B	-0.00018	-0.00017	-0.00015
	B	0.00034	0.00035	0.00036
	B	-0.00042	-0.00022	-0.00000

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2BX8H7H	AN	0.00347	0.00367	0.00385
	AN	0.00044	0.00044	0.00045
	AN	-0.00028	-0.00028	-0.00028
	AN	0.00397	0.00417	0.00436
	B	-0.00078	-0.00053	-0.00035
	B	0.00015	0.00018	0.00022
	B	-0.00035	-0.00035	-0.00034
	B	0.00291	0.00318	0.00338

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX8H7H	(B * !Y)	0.00035	0.00041	0.00050
	(B * !Y)	0.00020	0.00022	0.00023
	(B * !Y)	-0.00010	-0.00010	-0.00009
	(B * !Y)	0.00227	0.00232	0.00240

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX8H7H	(B * !Y)	0.00278	0.00285	0.00296
	(B * !Y)	-0.00023	-0.00022	-0.00020
	(B * !Y)	0.00009	0.00010	0.00010
	(B * !Y)	0.00084	0.00089	0.00098

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX8H7H	(!AN * !Y)	-0.00011	-0.00011	-0.00011
	(!AN * !Y)	-0.00021	-0.00021	-0.00020
	(!AN * !Y)	0.00003	0.00003	0.00003
	(!AN * !Y)	0.00170	0.00171	0.00171

Passive power(pJ) for B falling (conditional):

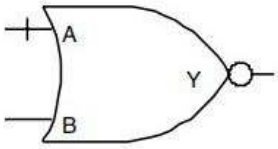
Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX8H7H	(!AN * !Y)	0.00011	0.00012	0.00012
	(!AN * !Y)	0.00021	0.00021	0.00022
	(!AN * !Y)	-0.00003	-0.00003	-0.00003
	(!AN * !Y)	-0.00171	-0.00170	-0.00168

NOR2X0P5H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NOR2 cell provides a logical NOR of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	0	1
x	1	0
1	x	0

Footprint

Cell Name	Area
NOR2X0P5H7H	1.12000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
NOR2X0P5H7H	0.00075	0.00091	0.01524

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR2X0P5H7H	0.00000	0.00686	0.00792

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2X0P5H7H	A->Y (FR)	0.04711	0.22161	0.73098
	B->Y (FR)	0.04645	0.21671	0.72559

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2X0P5H7H	A->Y (RF)	0.01925	0.11394	0.44482
	B->Y (RF)	0.01900	0.11189	0.44318

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2X0P5H7H	A	0.00071	0.00073	0.00076
	A	-0.00007	-0.00006	-0.00006
	A	0.00004	0.00005	0.00005
	A	-0.00015	-0.00013	-0.00010
	B	0.00061	0.00064	0.00068
	B	-0.00002	-0.00002	-0.00002
	B	0.00005	0.00005	0.00005
	B	-0.00014	-0.00010	-0.00006

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2X0P5H7H	A	-0.00009	-0.00007	-0.00006
	A	0.00006	0.00006	0.00007
	A	-0.00005	-0.00005	-0.00004
	A	0.00072	0.00076	0.00077
	B	-0.00012	-0.00008	-0.00006
	B	0.00002	0.00002	0.00002
	B	-0.00005	-0.00005	-0.00004
	B	0.00062	0.00065	0.00069

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X0P5H7H	(B * !Y)	-0.00009	-0.00008	-0.00007
	(B * !Y)	-0.00002	-0.00002	-0.00002
	(B * !Y)	0.00000	0.00000	0.00000
	(B * !Y)	0.00027	0.00027	0.00028

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X0P5H7H	(B * !Y)	0.00009	0.00009	0.00009
	(B * !Y)	0.00002	0.00002	0.00002
	(B * !Y)	-0.00000	-0.00000	-0.00000
	(B * !Y)	-0.00027	-0.00027	-0.00027

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X0P5H7H	(A * !Y)	-0.00000	0.00000	0.00000
	(A * !Y)	-0.00003	-0.00003	-0.00003
	(A * !Y)	0.00000	0.00000	0.00000
	(A * !Y)	0.00034	0.00034	0.00034

Passive power(pJ) for B falling (conditional):

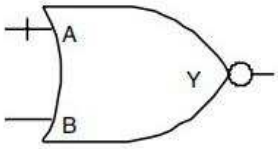
Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X0P5H7H	(A * !Y)	-0.00000	0.00000	0.00000
	(A * !Y)	0.00003	0.00003	0.00003
	(A * !Y)	-0.00000	-0.00000	-0.00000
	(A * !Y)	-0.00034	-0.00034	-0.00033

NOR2X0P7H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NOR2 cell provides a logical NOR of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	0	1
x	1	0
1	x	0

Footprint

Cell Name	Area
NOR2X0P7H7H	1.12000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
NOR2X0P7H7H	0.00079	0.00092	0.01739

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR2X0P7H7H	0.00000	0.00794	0.01059

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2X0P7H7H	A->Y (FR)	0.04301	0.21845	0.73291
	B->Y (FR)	0.04197	0.21297	0.72652

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2X0P7H7H	A->Y (RF)	0.01798	0.11343	0.44982
	B->Y (RF)	0.01763	0.11116	0.44810

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2X0P7H7H	A	0.00076	0.00078	0.00080
	A	-0.00008	-0.00007	-0.00007
	A	0.00005	0.00005	0.00005
	A	-0.00017	-0.00014	-0.00012
	B	0.00063	0.00066	0.00071
	B	-0.00002	-0.00002	-0.00002
	B	0.00005	0.00005	0.00005
	B	-0.00013	-0.00010	-0.00006

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2X0P7H7H	A	-0.00010	-0.00008	-0.00007
	A	0.00007	0.00007	0.00008
	A	-0.00005	-0.00005	-0.00005
	A	0.00075	0.00080	0.00083
	B	-0.00013	-0.00009	-0.00006
	B	0.00002	0.00002	0.00003
	B	-0.00005	-0.00005	-0.00005
	B	0.00063	0.00067	0.00070

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X0P7H7H	(B * !Y)	-0.00010	-0.00009	-0.00008
	(B * !Y)	-0.00002	-0.00002	-0.00002
	(B * !Y)	0.00000	0.00000	0.00000
	(B * !Y)	0.00029	0.00029	0.00030

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X0P7H7H	(B * !Y)	0.00010	0.00010	0.00010
	(B * !Y)	0.00002	0.00002	0.00002
	(B * !Y)	-0.00000	-0.00000	-0.00000
	(B * !Y)	-0.00029	-0.00029	-0.00029

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X0P7H7H	(A * !Y)	-0.00000	0.00000	0.00000
	(A * !Y)	-0.00004	-0.00004	-0.00004
	(A * !Y)	0.00000	0.00000	0.00001
	(A * !Y)	0.00034	0.00034	0.00034

Passive power(pJ) for B falling (conditional):

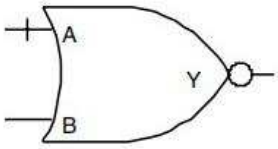
Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X0P7H7H	(A * !Y)	-0.00000	0.00000	0.00000
	(A * !Y)	0.00004	0.00004	0.00004
	(A * !Y)	-0.00000	-0.00000	-0.00000
	(A * !Y)	-0.00034	-0.00034	-0.00034

NOR2X12H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NOR2 cell provides a logical NOR of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	0	1
x	1	0
1	x	0

Footprint

Cell Name	Area
NOR2X12H7H	5.32000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
NOR2X12H7H	0.00649	0.00678	0.16312

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR2X12H7H	0.00000	0.11432	0.29515

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2X12H7H	A->Y (FR)	0.03043	0.20972	0.74310
	B->Y (FR)	0.02497	0.19887	0.73173

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2X12H7H	A->Y (RF)	0.01384	0.11055	0.46236
	B->Y (RF)	0.01232	0.10557	0.45876

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2X12H7H	A	0.00692	0.00711	0.00735
	A	-0.00078	-0.00077	-0.00076
	A	0.00052	0.00053	0.00053
	A	-0.00122	-0.00101	-0.00079
	B	0.00471	0.00514	0.00550
	B	-0.00027	-0.00026	-0.00022
	B	0.00052	0.00052	0.00053
	B	-0.00139	-0.00109	-0.00078

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2X12H7H	A	-0.00111	-0.00086	-0.00068
	A	0.00076	0.00077	0.00078
	A	-0.00053	-0.00052	-0.00052
	A	0.00621	0.00683	0.00708
	B	-0.00120	-0.00082	-0.00056
	B	0.00022	0.00026	0.00028
	B	-0.00053	-0.00052	-0.00051
	B	0.00509	0.00539	0.00568

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X12H7H	(B * !Y)	-0.00108	-0.00096	-0.00077
	(B * !Y)	-0.00022	-0.00022	-0.00021
	(B * !Y)	0.00004	0.00004	0.00005
	(B * !Y)	0.00199	0.00202	0.00205

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X12H7H	(B * !Y)	0.00106	0.00107	0.00108
	(B * !Y)	0.00021	0.00022	0.00022
	(B * !Y)	-0.00004	-0.00004	-0.00004
	(B * !Y)	-0.00199	-0.00199	-0.00198

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X12H7H	(A * !Y)	-0.00000	-0.00000	0.00000
	(A * !Y)	-0.00032	-0.00031	-0.00031
	(A * !Y)	0.00004	0.00004	0.00005
	(A * !Y)	0.00254	0.00255	0.00256

Passive power(pJ) for B falling (conditional):

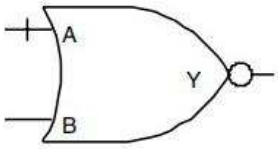
Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X12H7H	(A * !Y)	-0.00000	0.00000	0.00000
	(A * !Y)	0.00033	0.00033	0.00033
	(A * !Y)	-0.00005	-0.00004	-0.00004
	(A * !Y)	-0.00254	-0.00253	-0.00252

NOR2X16H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NOR2 cell provides a logical NOR of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	0	1
x	1	0
1	x	0

Footprint

Cell Name	Area
NOR2X16H7H	6.72000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
NOR2X16H7H	0.00866	0.00901	0.21693

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR2X16H7H	0.00000	0.15243	0.39354

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2X16H7H	A->Y (FR)	0.03007	0.20918	0.74239
	B->Y (FR)	0.02457	0.19828	0.73101

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2X16H7H	A->Y (RF)	0.01371	0.11024	0.46189
	B->Y (RF)	0.01218	0.10517	0.45818

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2X16H7H	A	0.00922	0.00948	0.00979
	A	-0.00104	-0.00103	-0.00102
	A	0.00069	0.00070	0.00072
	A	-0.00164	-0.00136	-0.00106
	B	0.00624	0.00685	0.00732
	B	-0.00035	-0.00034	-0.00030
	B	0.00069	0.00070	0.00071
	B	-0.00185	-0.00145	-0.00104

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2X16H7H	A	-0.00149	-0.00115	-0.00090
	A	0.00102	0.00103	0.00104
	A	-0.00070	-0.00070	-0.00069
	A	0.00852	0.00910	0.00944
	B	-0.00160	-0.00110	-0.00074
	B	0.00030	0.00035	0.00043
	B	-0.00071	-0.00070	-0.00068
	B	0.00665	0.00715	0.00753

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X16H7H	(B * !Y)	-0.00144	-0.00128	-0.00104
	(B * !Y)	-0.00030	-0.00029	-0.00029
	(B * !Y)	0.00005	0.00006	0.00006
	(B * !Y)	0.00265	0.00268	0.00273

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X16H7H	(B * !Y)	0.00142	0.00143	0.00144
	(B * !Y)	0.00029	0.00029	0.00030
	(B * !Y)	-0.00006	-0.00006	-0.00005
	(B * !Y)	-0.00265	-0.00264	-0.00263

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X16H7H	(A * !Y)	-0.00000	-0.00000	0.00000
	(A * !Y)	-0.00042	-0.00042	-0.00042
	(A * !Y)	0.00005	0.00006	0.00007
	(A * !Y)	0.00336	0.00337	0.00338

Passive power(pJ) for B falling (conditional):

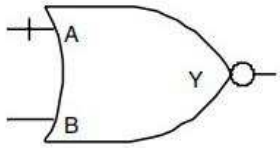
Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X16H7H	(A * !Y)	-0.00000	0.00000	0.00000
	(A * !Y)	0.00044	0.00044	0.00044
	(A * !Y)	-0.00006	-0.00006	-0.00005
	(A * !Y)	-0.00337	-0.00335	-0.00333

NOR2X1H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NOR2 cell provides a logical NOR of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	0	1
x	1	0
1	x	0

Footprint

Cell Name	Area
NOR2X1H7H	1.12000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
NOR2X1H7H	0.00088	0.00100	0.02083

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR2X1H7H	0.00000	0.01036	0.01938

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2X1H7H	A->Y (FR)	0.04007	0.21667	0.73645
	B->Y (FR)	0.03806	0.21028	0.72909

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2X1H7H	A->Y (RF)	0.01750	0.11547	0.46121
	B->Y (RF)	0.01680	0.11270	0.45872

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2X1H7H	A	0.00087	0.00089	0.00092
	A	-0.00009	-0.00009	-0.00009
	A	0.00006	0.00006	0.00006
	A	-0.00018	-0.00015	-0.00013
	B	0.00070	0.00074	0.00079
	B	-0.00003	-0.00003	-0.00003
	B	0.00006	0.00006	0.00006
	B	-0.00016	-0.00012	-0.00007

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2X1H7H	A	-0.00012	-0.00010	-0.00008
	A	0.00009	0.00009	0.00009
	A	-0.00006	-0.00006	-0.00006
	A	0.00085	0.00091	0.00093
	B	-0.00015	-0.00010	-0.00007
	B	0.00003	0.00003	0.00005
	B	-0.00006	-0.00006	-0.00006
	B	0.00069	0.00075	0.00079

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X1H7H	(B * !Y)	-0.00012	-0.00011	-0.00009
	(B * !Y)	-0.00003	-0.00003	-0.00003
	(B * !Y)	0.00000	0.00001	0.00001
	(B * !Y)	0.00031	0.00032	0.00032

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X1H7H	(B * !Y)	0.00012	0.00012	0.00012
	(B * !Y)	0.00003	0.00003	0.00003
	(B * !Y)	-0.00001	-0.00001	-0.00000
	(B * !Y)	-0.00031	-0.00031	-0.00031

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X1H7H	(A * !Y)	-0.00000	-0.00000	0.00000
	(A * !Y)	-0.00004	-0.00004	-0.00004
	(A * !Y)	0.00000	0.00001	0.00001
	(A * !Y)	0.00037	0.00037	0.00037

Passive power(pJ) for B falling (conditional):

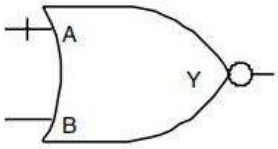
Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X1H7H	(A * !Y)	-0.00000	0.00000	0.00000
	(A * !Y)	0.00004	0.00004	0.00004
	(A * !Y)	-0.00001	-0.00001	-0.00000
	(A * !Y)	-0.00037	-0.00037	-0.00037

NOR2X1P4H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NOR2 cell provides a logical NOR of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	0	1
x	1	0
1	x	0

Footprint

Cell Name	Area
NOR2X1P4H7H	1.12000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
NOR2X1P4H7H	0.00096	0.00108	0.02371

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR2X1P4H7H	0.00000	0.01346	0.03022

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2X1P4H7H	A->Y (FR)	0.03820	0.21567	0.73892
	B->Y (FR)	0.03612	0.20913	0.73087

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2X1P4H7H	A->Y (RF)	0.01696	0.11571	0.46493
	B->Y (RF)	0.01627	0.11289	0.46334

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2X1P4H7H	A	0.00097	0.00100	0.00103
	A	-0.00011	-0.00011	-0.00011
	A	0.00007	0.00007	0.00007
	A	-0.00018	-0.00015	-0.00012
	B	0.00077	0.00082	0.00087
	B	-0.00004	-0.00003	-0.00003
	B	0.00007	0.00007	0.00007
	B	-0.00015	-0.00011	-0.00006

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2X1P4H7H	A	-0.00014	-0.00011	-0.00009
	A	0.00011	0.00011	0.00011
	A	-0.00007	-0.00007	-0.00007
	A	0.00091	0.00099	0.00102
	B	-0.00017	-0.00011	-0.00008
	B	0.00003	0.00004	0.00006
	B	-0.00007	-0.00007	-0.00007
	B	0.00077	0.00081	0.00085

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X1P4H7H	(B * !Y)	-0.00014	-0.00012	-0.00010
	(B * !Y)	-0.00003	-0.00003	-0.00003
	(B * !Y)	0.00001	0.00001	0.00001
	(B * !Y)	0.00032	0.00032	0.00032

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X1P4H7H	(B * !Y)	0.00014	0.00014	0.00014
	(B * !Y)	0.00003	0.00003	0.00003
	(B * !Y)	-0.00001	-0.00001	-0.00001
	(B * !Y)	-0.00032	-0.00032	-0.00032

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X1P4H7H	(A * !Y)	-0.00000	-0.00000	0.00000
	(A * !Y)	-0.00005	-0.00005	-0.00005
	(A * !Y)	0.00001	0.00001	0.00001
	(A * !Y)	0.00039	0.00039	0.00039

Passive power(pJ) for B falling (conditional):

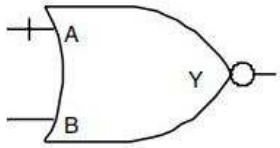
Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X1P4H7H	(A * !Y)	-0.00000	0.00000	0.00000
	(A * !Y)	0.00005	0.00005	0.00005
	(A * !Y)	-0.00001	-0.00001	-0.00001
	(A * !Y)	-0.00039	-0.00038	-0.00038

NOR2X2H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NOR2 cell provides a logical NOR of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	0	1
x	1	0
1	x	0

Footprint

Cell Name	Area
NOR2X2H7H	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
NOR2X2H7H	0.00161	0.00166	0.03048

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR2X2H7H	0.00000	0.01370	0.01583

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2X2H7H	A->Y (FR)	0.04264	0.21908	0.73758
	B->Y (FR)	0.03631	0.20719	0.72327

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2X2H7H	A->Y (RF)	0.01759	0.11198	0.44682
	B->Y (RF)	0.01584	0.10722	0.44252

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2X2H7H	A	0.00157	0.00162	0.00168
	A	-0.00013	-0.00013	-0.00013
	A	0.00009	0.00009	0.00010
	A	-0.00028	-0.00022	-0.00017
	B	0.00110	0.00118	0.00126
	B	-0.00004	-0.00004	-0.00003
	B	0.00009	0.00009	0.00010
	B	-0.00036	-0.00029	-0.00022

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2X2H7H	A	-0.00022	-0.00016	-0.00012
	A	0.00013	0.00013	0.00013
	A	-0.00009	-0.00009	-0.00009
	A	0.00152	0.00159	0.00164
	B	-0.00022	-0.00014	-0.00008
	B	0.00004	0.00004	0.00004
	B	-0.00009	-0.00009	-0.00009
	B	0.00127	0.00133	0.00139

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X2H7H	(B * !Y)	-0.00021	-0.00018	-0.00014
	(B * !Y)	-0.00004	-0.00004	-0.00004
	(B * !Y)	0.00001	0.00001	0.00001
	(B * !Y)	0.00055	0.00056	0.00057

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X2H7H	(B * !Y)	0.00021	0.00021	0.00021
	(B * !Y)	0.00004	0.00004	0.00004
	(B * !Y)	-0.00001	-0.00001	-0.00001
	(B * !Y)	-0.00055	-0.00055	-0.00054

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X2H7H	(A * !Y)	0.00000	0.00000	0.00000
	(A * !Y)	-0.00005	-0.00005	-0.00005
	(A * !Y)	0.00001	0.00001	0.00001
	(A * !Y)	0.00067	0.00068	0.00068

Passive power(pJ) for B falling (conditional):

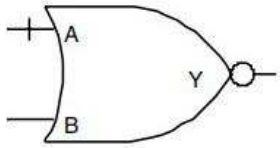
Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X2H7H	(A * !Y)	-0.00000	-0.00000	0.00000
	(A * !Y)	0.00006	0.00006	0.00006
	(A * !Y)	-0.00001	-0.00001	-0.00001
	(A * !Y)	-0.00068	-0.00067	-0.00067

NOR2X3H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NOR2 cell provides a logical NOR of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	0	1
x	1	0
1	x	0

Footprint

Cell Name	Area
NOR2X3H7H	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
NOR2X3H7H	0.00188	0.00192	0.04360

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR2X3H7H	0.00000	0.02315	0.04765

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2X3H7H	A->Y (FR)	0.03557	0.21366	0.74046
	B->Y (FR)	0.02966	0.20211	0.72797

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2X3H7H	A->Y (RF)	0.01563	0.11298	0.46149
	B->Y (RF)	0.01394	0.10801	0.45790

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2X3H7H	A	0.00192	0.00198	0.00204
	A	-0.00020	-0.00019	-0.00019
	A	0.00013	0.00013	0.00014
	A	-0.00033	-0.00027	-0.00021
	B	0.00134	0.00142	0.00152
	B	-0.00006	-0.00006	-0.00005
	B	0.00013	0.00013	0.00014
	B	-0.00039	-0.00031	-0.00022

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2X3H7H	A	-0.00029	-0.00022	-0.00017
	A	0.00019	0.00019	0.00020
	A	-0.00013	-0.00013	-0.00013
	A	0.00176	0.00191	0.00198
	B	-0.00032	-0.00022	-0.00016
	B	0.00005	0.00006	0.00007
	B	-0.00013	-0.00013	-0.00013
	B	0.00141	0.00150	0.00158

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X3H7H	(B * !Y)	-0.00028	-0.00025	-0.00020
	(B * !Y)	-0.00006	-0.00006	-0.00005
	(B * !Y)	0.00001	0.00001	0.00001
	(B * !Y)	0.00061	0.00061	0.00063

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X3H7H	(B * !Y)	0.00028	0.00028	0.00028
	(B * !Y)	0.00005	0.00006	0.00006
	(B * !Y)	-0.00001	-0.00001	-0.00001
	(B * !Y)	-0.00061	-0.00060	-0.00060

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X3H7H	(A * !Y)	-0.00000	0.00000	0.00000
	(A * !Y)	-0.00008	-0.00008	-0.00008
	(A * !Y)	0.00001	0.00001	0.00001
	(A * !Y)	0.00073	0.00073	0.00074

Passive power(pJ) for B falling (conditional):

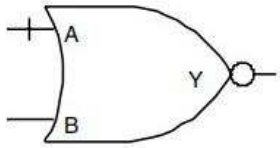
Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X3H7H	(A * !Y)	-0.00000	-0.00000	0.00000
	(A * !Y)	0.00008	0.00008	0.00008
	(A * !Y)	-0.00001	-0.00001	-0.00001
	(A * !Y)	-0.00073	-0.00073	-0.00072

NOR2X4H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NOR2 cell provides a logical NOR of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	0	1
x	1	0
1	x	0

Footprint

Cell Name	Area
NOR2X4H7H	3.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
NOR2X4H7H	0.00318	0.00340	0.06079

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR2X4H7H	0.00000	0.02740	0.03166

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2X4H7H	A->Y (FR)	0.03874	0.21532	0.73592
	B->Y (FR)	0.03313	0.20422	0.72383

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2X4H7H	A->Y (RF)	0.01624	0.10991	0.44594
	B->Y (RF)	0.01476	0.10534	0.44238

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2X4H7H	A	0.00313	0.00323	0.00334
	A	-0.00026	-0.00026	-0.00025
	A	0.00018	0.00019	0.00019
	A	-0.00062	-0.00052	-0.00040
	B	0.00224	0.00241	0.00259
	B	-0.00008	-0.00008	-0.00008
	B	0.00018	0.00018	0.00019
	B	-0.00075	-0.00061	-0.00045

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2X4H7H	A	-0.00045	-0.00033	-0.00025
	A	0.00025	0.00026	0.00026
	A	-0.00019	-0.00018	-0.00018
	A	0.00312	0.00324	0.00334
	B	-0.00047	-0.00030	-0.00018
	B	0.00008	0.00008	0.00009
	B	-0.00019	-0.00018	-0.00018
	B	0.00255	0.00272	0.00285

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X4H7H	(B * !Y)	-0.00042	-0.00037	-0.00029
	(B * !Y)	-0.00008	-0.00008	-0.00008
	(B * !Y)	0.00001	0.00002	0.00002
	(B * !Y)	0.00112	0.00113	0.00116

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X4H7H	(B * !Y)	0.00042	0.00042	0.00043
	(B * !Y)	0.00008	0.00008	0.00008
	(B * !Y)	-0.00001	-0.00001	-0.00001
	(B * !Y)	-0.00112	-0.00111	-0.00110

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X4H7H	(A * !Y)	-0.00000	0.00000	0.00000
	(A * !Y)	-0.00011	-0.00011	-0.00011
	(A * !Y)	0.00001	0.00002	0.00002
	(A * !Y)	0.00138	0.00139	0.00140

Passive power(pJ) for B falling (conditional):

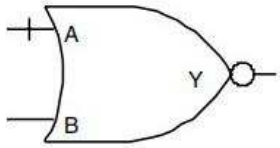
Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X4H7H	(A * !Y)	-0.00000	0.00000	0.00000
	(A * !Y)	0.00011	0.00012	0.00012
	(A * !Y)	-0.00002	-0.00001	-0.00001
	(A * !Y)	-0.00139	-0.00138	-0.00137

NOR2X6H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NOR2 cell provides a logical NOR of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	0	1
x	1	0
1	x	0

Footprint

Cell Name	Area
NOR2X6H7H	3.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
NOR2X6H7H	0.00370	0.00389	0.08690

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR2X6H7H	0.00000	0.04630	0.09530

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2X6H7H	A->Y (FR)	0.03304	0.21110	0.73995
	B->Y (FR)	0.02786	0.20063	0.72913

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2X6H7H	A->Y (RF)	0.01480	0.11146	0.46081
	B->Y (RF)	0.01336	0.10687	0.45781

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2X6H7H	A	0.00384	0.00396	0.00409
	A	-0.00039	-0.00039	-0.00037
	A	0.00026	0.00027	0.00027
	A	-0.00070	-0.00058	-0.00044
	B	0.00275	0.00291	0.00311
	B	-0.00013	-0.00013	-0.00012
	B	0.00026	0.00027	0.00027
	B	-0.00080	-0.00063	-0.00045

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2X6H7H	A	-0.00059	-0.00045	-0.00035
	A	0.00037	0.00039	0.00039
	A	-0.00027	-0.00027	-0.00026
	A	0.00349	0.00385	0.00399
	B	-0.00060	-0.00039	-0.00025
	B	0.00012	0.00013	0.00014
	B	-0.00027	-0.00027	-0.00026
	B	0.00288	0.00313	0.00329

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X6H7H	(B * !Y)	-0.00056	-0.00050	-0.00040
	(B * !Y)	-0.00011	-0.00011	-0.00011
	(B * !Y)	0.00002	0.00002	0.00002
	(B * !Y)	0.00122	0.00123	0.00125

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X6H7H	(B * !Y)	0.00055	0.00056	0.00056
	(B * !Y)	0.00011	0.00011	0.00011
	(B * !Y)	-0.00002	-0.00002	-0.00002
	(B * !Y)	-0.00122	-0.00121	-0.00120

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X6H7H	(A * !Y)	-0.00000	-0.00000	0.00000
	(A * !Y)	-0.00016	-0.00016	-0.00016
	(A * !Y)	0.00002	0.00002	0.00003
	(A * !Y)	0.00151	0.00151	0.00151

Passive power(pJ) for B falling (conditional):

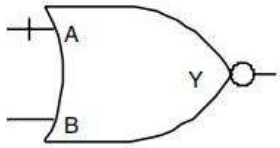
Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X6H7H	(A * !Y)	-0.00000	0.00000	0.00000
	(A * !Y)	0.00016	0.00016	0.00016
	(A * !Y)	-0.00002	-0.00002	-0.00002
	(A * !Y)	-0.00151	-0.00150	-0.00149

NOR2X8H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NOR2 cell provides a logical NOR of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	0	1
x	1	0
1	x	0

Footprint

Cell Name	Area
NOR2X8H7H	3.92000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
NOR2X8H7H	0.00434	0.00450	0.10880

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR2X8H7H	0.00000	0.07621	0.19677

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2X8H7H	A->Y (FR)	0.03121	0.21042	0.74288
	B->Y (FR)	0.02570	0.19942	0.73095

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2X8H7H	A->Y (RF)	0.01413	0.11104	0.46272
	B->Y (RF)	0.01260	0.10609	0.45883

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2X8H7H	A	0.00464	0.00476	0.00492
	A	-0.00052	-0.00052	-0.00051
	A	0.00035	0.00035	0.00035
	A	-0.00077	-0.00063	-0.00048
	B	0.00312	0.00342	0.00366
	B	-0.00018	-0.00017	-0.00015
	B	0.00035	0.00035	0.00035
	B	-0.00088	-0.00068	-0.00048

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2X8H7H	A	-0.00074	-0.00057	-0.00045
	A	0.00051	0.00052	0.00052
	A	-0.00035	-0.00035	-0.00035
	A	0.00414	0.00452	0.00469
	B	-0.00078	-0.00053	-0.00036
	B	0.00015	0.00017	0.00020
	B	-0.00035	-0.00035	-0.00034
	B	0.00333	0.00356	0.00375

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X8H7H	(B * !Y)	-0.00072	-0.00064	-0.00052
	(B * !Y)	-0.00015	-0.00015	-0.00014
	(B * !Y)	0.00003	0.00003	0.00003
	(B * !Y)	0.00131	0.00133	0.00135

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X8H7H	(B * !Y)	0.00071	0.00072	0.00072
	(B * !Y)	0.00014	0.00015	0.00015
	(B * !Y)	-0.00003	-0.00003	-0.00003
	(B * !Y)	-0.00131	-0.00131	-0.00130

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X8H7H	(A * !Y)	-0.00000	-0.00000	0.00000
	(A * !Y)	-0.00021	-0.00021	-0.00020
	(A * !Y)	0.00003	0.00003	0.00003
	(A * !Y)	0.00166	0.00167	0.00168

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X8H7H	(A * !Y)	-0.00000	0.00000	0.00000
	(A * !Y)	0.00022	0.00022	0.00022
	(A * !Y)	-0.00003	-0.00003	-0.00003
	(A * !Y)	-0.00167	-0.00166	-0.00165

NOR3BX0P5H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

NOR3B, In: AN, B, C, Out: Y

Truth Table

INPUT			OUTPUT
AN	B	C	Y
0	x	x	0
1	0	0	1
1	x	1	0
1	1	x	0

Footprint

Cell Name	Area
NOR3BX0P5H7H	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	AN	B	C	Y
NOR3BX0P5H7H	0.00097	0.00079	0.00091	0.00979

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR3BX0P5H7H	0.00000	0.01293	0.01701

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR3BX0P5H7H	AN->Y (RR)	0.10836	0.25820	0.62145
	B->Y (FR)	0.08444	0.25200	0.73216
	C->Y (FR)	0.07940	0.24092	0.71160

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR3BX0P5H7H	AN->Y (FF)	0.05566	0.13282	0.30276
	B->Y (RF)	0.02235	0.10193	0.37149
	C->Y (RF)	0.02153	0.09935	0.36876

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR3BX0P5H7H	AN	0.00094	0.00098	0.00103
	AN	-0.00009	-0.00009	-0.00008
	AN	0.00005	0.00005	0.00005
	AN	0.00105	0.00109	0.00114
	B	0.00092	0.00095	0.00098
	B	-0.00007	-0.00006	-0.00006
	B	0.00007	0.00007	0.00007
	B	-0.00001	0.00002	0.00005
	C	0.00079	0.00083	0.00087
	C	-0.00002	-0.00002	-0.00002
	C	0.00007	0.00007	0.00007
	C	-0.00001	0.00003	0.00007

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR3BX0P5H7H	AN	0.00096	0.00099	0.00103
	AN	0.00008	0.00009	0.00009
	AN	-0.00005	-0.00005	-0.00005
	AN	0.00079	0.00082	0.00087
	B	-0.00010	-0.00008	-0.00006
	B	0.00006	0.00006	0.00007
	B	-0.00007	-0.00007	-0.00007
	B	0.00080	0.00082	0.00084
	C	-0.00012	-0.00008	-0.00005
	C	0.00002	0.00002	0.00002
	C	-0.00007	-0.00007	-0.00007
	C	0.00069	0.00072	0.00075

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX0P5H7H	(B * C * !Y)	-0.00005	-0.00002	0.00001
	(B * C * !Y)	0.00004	0.00004	0.00005
	(B * C * !Y)	-0.00002	-0.00003	-0.00002
	(B * C * !Y)	0.00074	0.00076	0.00079
	(B * !C * !Y) + (!B * C * !Y)	-0.00004	-0.00002	0.00001
	(B * !C * !Y) + (!B * C * !Y)	0.00004	0.00004	0.00004
	(B * !C * !Y) + (!B * C * !Y)	-0.00003	-0.00002	-0.00002
	(B * !C * !Y) + (!B * C * !Y)	0.00074	0.00076	0.00079

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX0P5H7H	(B * C * !Y)	0.00084	0.00086	0.00089
	(B * C * !Y)	-0.00005	-0.00004	-0.00004
	(B * C * !Y)	0.00002	0.00003	0.00003
	(B * C * !Y)	0.00005	0.00007	0.00010
	(B * !C * !Y) + (!B * C * !Y)	0.00084	0.00086	0.00089
	(B * !C * !Y) + (!B * C * !Y)	-0.00004	-0.00004	-0.00004
	(B * !C * !Y) + (!B * C * !Y)	0.00002	0.00003	0.00003
	(B * !C * !Y) + (!B * C * !Y)	0.00005	0.00007	0.00010

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX0P5H7H	(AN * C * !Y)	-0.00010	-0.00009	-0.00007
	(AN * C * !Y)	-0.00002	-0.00002	-0.00002
	(AN * C * !Y)	0.00000	0.00000	0.00000
	(AN * C * !Y)	0.00027	0.00027	0.00028
	(!AN * C * !Y)	-0.00004	-0.00004	-0.00004
	(!AN * C * !Y)	-0.00006	-0.00006	-0.00006
	(!AN * C * !Y)	0.00000	0.00000	0.00000
	(!AN * C * !Y)	0.00025	0.00025	0.00025
	(!AN * !C * !Y)	-0.00004	-0.00004	-0.00004
	(!AN * !C * !Y)	-0.00005	-0.00005	-0.00005
	(!AN * !C * !Y)	0.00000	0.00000	0.00000
	(!AN * !C * !Y)	0.00025	0.00025	0.00025

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX0P5H7H	(AN * C * !Y)	0.00010	0.00010	0.00010
	(AN * C * !Y)	0.00002	0.00002	0.00002
	(AN * C * !Y)	-0.00000	-0.00000	-0.00000
	(AN * C * !Y)	-0.00027	-0.00027	-0.00027
	(!AN * C * !Y)	0.00004	0.00004	0.00004
	(!AN * C * !Y)	0.00006	0.00006	0.00006
	(!AN * C * !Y)	-0.00000	-0.00000	-0.00000
	(!AN * C * !Y)	-0.00025	-0.00025	-0.00025
	(!AN * !C * !Y)	0.00004	0.00004	0.00004
	(!AN * !C * !Y)	0.00005	0.00005	0.00005
	(!AN * !C * !Y)	-0.00000	-0.00000	-0.00000
	(!AN * !C * !Y)	-0.00025	-0.00025	-0.00025

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX0P5H7H	(B * !Y)	-0.00000	-0.00000	0.00000
	(B * !Y)	-0.00003	-0.00003	-0.00003
	(B * !Y)	0.00000	0.00000	0.00000
	(B * !Y)	0.00034	0.00034	0.00034
	(!AN * !B * !Y)	-0.00000	-0.00000	-0.00000
	(!AN * !B * !Y)	-0.00003	-0.00003	-0.00002
	(!AN * !B * !Y)	0.00000	0.00000	0.00000
	(!AN * !B * !Y)	0.00034	0.00034	0.00034

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX0P5H7H	(B * !Y)	0.00000	0.00000	0.00000
	(B * !Y)	0.00003	0.00003	0.00003
	(B * !Y)	-0.00000	-0.00000	-0.00000
	(B * !Y)	-0.00034	-0.00034	-0.00033
	(!AN * !B * !Y)	0.00000	0.00001	0.00001
	(!AN * !B * !Y)	0.00002	0.00003	0.00004
	(!AN * !B * !Y)	-0.00000	-0.00000	-0.00000
	(!AN * !B * !Y)	-0.00034	-0.00034	-0.00034

NOR3BX0P7H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

NOR3B, In: AN, B, C, Out: Y

Truth Table

INPUT			OUTPUT
AN	B	C	Y
0	x	x	0
1	0	0	1
1	x	1	0
1	1	x	0

Footprint

Cell Name	Area
NOR3BX0P7H7H	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	AN	B	C	Y
NOR3BX0P7H7H	0.00095	0.00085	0.00093	0.01122

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR3BX0P7H7H	0.00000	0.01396	0.02317

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR3BX0P7H7H	AN->Y (RR)	0.10193	0.25469	0.62510
	B->Y (FR)	0.07732	0.24664	0.73374
	C->Y (FR)	0.07038	0.23372	0.71065

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR3BX0P7H7H	AN->Y (FF)	0.05578	0.13449	0.30893
	B->Y (RF)	0.02090	0.10104	0.37557
	C->Y (RF)	0.01970	0.09790	0.37277

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR3BX0P7H7H	AN	0.00100	0.00104	0.00110
	AN	-0.00010	-0.00010	-0.00010
	AN	0.00006	0.00006	0.00006
	AN	0.00105	0.00110	0.00115
	B	0.00097	0.00099	0.00103
	B	-0.00008	-0.00007	-0.00007
	B	0.00008	0.00008	0.00008
	B	-0.00002	0.00001	0.00004
	C	0.00080	0.00084	0.00089
	C	-0.00002	-0.00002	-0.00002
	C	0.00008	0.00008	0.00008
	C	-0.00002	0.00001	0.00005

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR3BX0P7H7H	AN	0.00099	0.00103	0.00107
	AN	0.00010	0.00010	0.00010
	AN	-0.00006	-0.00006	-0.00006
	AN	0.00088	0.00091	0.00096
	B	-0.00011	-0.00008	-0.00006
	B	0.00007	0.00007	0.00008
	B	-0.00008	-0.00008	-0.00008
	B	0.00084	0.00086	0.00089
	C	-0.00012	-0.00008	-0.00005
	C	0.00002	0.00002	0.00003
	C	-0.00008	-0.00008	-0.00008
	C	0.00071	0.00075	0.00077

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX0P7H7H	(B * C * !Y)	-0.00004	-0.00001	0.00002
	(B * C * !Y)	0.00004	0.00004	0.00005
	(B * C * !Y)	-0.00003	-0.00003	-0.00002
	(B * C * !Y)	0.00074	0.00076	0.00080
	(B * !C * !Y) + (!B * C * !Y)	-0.00004	-0.00001	0.00002
	(B * !C * !Y) + (!B * C * !Y)	0.00004	0.00004	0.00004
	(B * !C * !Y) + (!B * C * !Y)	-0.00003	-0.00003	-0.00003
	(B * !C * !Y) + (!B * C * !Y)	0.00074	0.00076	0.00079

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX0P7H7H	(B * C * !Y)	0.00087	0.00090	0.00093
	(B * C * !Y)	-0.00005	-0.00004	-0.00004
	(B * C * !Y)	0.00002	0.00003	0.00003
	(B * C * !Y)	0.00009	0.00011	0.00015
	(B * !C * !Y) + (!B * C * !Y)	0.00087	0.00090	0.00093
	(B * !C * !Y) + (!B * C * !Y)	-0.00004	-0.00004	-0.00004
	(B * !C * !Y) + (!B * C * !Y)	0.00003	0.00003	0.00003
	(B * !C * !Y) + (!B * C * !Y)	0.00009	0.00011	0.00015

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX0P7H7H	(AN * C * !Y)	-0.00011	-0.00010	-0.00008
	(AN * C * !Y)	-0.00002	-0.00002	-0.00002
	(AN * C * !Y)	0.00000	0.00000	0.00000
	(AN * C * !Y)	0.00028	0.00028	0.00029
	(!AN * C * !Y)	-0.00004	-0.00004	-0.00004
	(!AN * C * !Y)	-0.00006	-0.00006	-0.00006
	(!AN * C * !Y)	0.00000	0.00000	0.00001
	(!AN * C * !Y)	0.00026	0.00026	0.00026
	(!AN * !C * !Y)	-0.00004	-0.00004	-0.00004
	(!AN * !C * !Y)	-0.00005	-0.00005	-0.00005
	(!AN * !C * !Y)	0.00000	0.00000	0.00000
	(!AN * !C * !Y)	0.00026	0.00026	0.00026

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX0P7H7H	(AN * C * !Y)	0.00011	0.00011	0.00011
	(AN * C * !Y)	0.00002	0.00002	0.00002
	(AN * C * !Y)	-0.00000	-0.00000	-0.00000
	(AN * C * !Y)	-0.00028	-0.00028	-0.00028
	(!AN * C * !Y)	0.00004	0.00004	0.00004
	(!AN * C * !Y)	0.00006	0.00006	0.00006
	(!AN * C * !Y)	-0.00000	-0.00000	-0.00000
	(!AN * C * !Y)	-0.00026	-0.00026	-0.00026
	(!AN * !C * !Y)	0.00004	0.00004	0.00004
	(!AN * !C * !Y)	0.00005	0.00005	0.00005
	(!AN * !C * !Y)	-0.00000	-0.00000	-0.00000
	(!AN * !C * !Y)	-0.00026	-0.00026	-0.00026

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX0P7H7H	(B * !Y)	-0.00000	-0.00000	0.00000
	(B * !Y)	-0.00004	-0.00003	-0.00003
	(B * !Y)	0.00000	0.00000	0.00000
	(B * !Y)	0.00034	0.00034	0.00035
	(!AN * !B * !Y)	-0.00000	-0.00000	0.00000
	(!AN * !B * !Y)	-0.00003	-0.00003	-0.00003
	(!AN * !B * !Y)	0.00000	0.00001	0.00001
	(!AN * !B * !Y)	0.00034	0.00034	0.00035

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX0P7H7H	(B * !Y)	0.00000	0.00000	0.00000
	(B * !Y)	0.00004	0.00004	0.00004
	(B * !Y)	-0.00000	-0.00000	-0.00000
	(B * !Y)	-0.00035	-0.00034	-0.00034
	(!AN * !B * !Y)	0.00000	0.00000	0.00000
	(!AN * !B * !Y)	0.00004	0.00004	0.00005
	(!AN * !B * !Y)	-0.00000	-0.00000	-0.00000
	(!AN * !B * !Y)	-0.00035	-0.00034	-0.00034

NOR3BX1H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

NOR3B, In: AN, B, C, Out: Y

Truth Table

INPUT			OUTPUT
AN	B	C	Y
0	x	x	0
1	0	0	1
1	x	1	0
1	1	x	0

Footprint

Cell Name	Area
NOR3BX1H7H	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	AN	B	C	Y
NOR3BX1H7H	0.00100	0.00091	0.00106	0.01352

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR3BX1H7H	0.00000	0.01617	0.03636

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR3BX1H7H	AN->Y (RR)	0.09533	0.25250	0.63385
	B->Y (FR)	0.06789	0.23949	0.73517
	C->Y (FR)	0.06205	0.22736	0.71231

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR3BX1H7H	AN->Y (FF)	0.05774	0.13985	0.32385
	B->Y (RF)	0.01937	0.10116	0.38569
	C->Y (RF)	0.01842	0.09805	0.38319

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR3BX1H7H	AN	0.00110	0.00114	0.00120
	AN	-0.00013	-0.00013	-0.00012
	AN	0.00007	0.00008	0.00008
	AN	0.00110	0.00114	0.00120
	B	0.00104	0.00106	0.00110
	B	-0.00011	-0.00009	-0.00007
	B	0.00009	0.00010	0.00010
	B	-0.00007	-0.00004	-0.00001
	C	0.00084	0.00089	0.00095
	C	-0.00003	-0.00003	-0.00003
	C	0.00010	0.00010	0.00010
	C	-0.00008	-0.00004	0.00001

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR3BX1H7H	AN	0.00108	0.00112	0.00116
	AN	0.00012	0.00013	0.00013
	AN	-0.00008	-0.00007	-0.00007
	AN	0.00100	0.00104	0.00109
	B	-0.00013	-0.00010	-0.00007
	B	0.00007	0.00009	0.00011
	B	-0.00010	-0.00010	-0.00007
	B	0.00093	0.00096	0.00099
	C	-0.00015	-0.00010	-0.00007
	C	0.00003	0.00003	0.00003
	C	-0.00010	-0.00010	-0.00009
	C	0.00079	0.00083	0.00087

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX1H7H	(B * C * !Y)	-0.00002	0.00000	0.00004
	(B * C * !Y)	0.00004	0.00005	0.00005
	(B * C * !Y)	-0.00003	-0.00003	-0.00003
	(B * C * !Y)	0.00081	0.00083	0.00087
	(B * !C * !Y) + (!B * C * !Y)	-0.00002	0.00000	0.00004
	(B * !C * !Y) + (!B * C * !Y)	0.00004	0.00005	0.00005
	(B * !C * !Y) + (!B * C * !Y)	-0.00003	-0.00003	-0.00003
	(B * !C * !Y) + (!B * C * !Y)	0.00081	0.00083	0.00087

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX1H7H	(B * C * !Y)	0.00095	0.00097	0.00101
	(B * C * !Y)	-0.00005	-0.00005	-0.00004
	(B * C * !Y)	0.00003	0.00003	0.00003
	(B * C * !Y)	0.00011	0.00014	0.00018
	(B * !C * !Y) + (!B * C * !Y)	0.00095	0.00097	0.00101
	(B * !C * !Y) + (!B * C * !Y)	-0.00005	-0.00005	-0.00004
	(B * !C * !Y) + (!B * C * !Y)	0.00003	0.00003	0.00003
	(B * !C * !Y) + (!B * C * !Y)	0.00011	0.00014	0.00018

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX1H7H	(AN * C * !Y)	-0.00013	-0.00011	-0.00009
	(AN * C * !Y)	-0.00003	-0.00003	-0.00002
	(AN * C * !Y)	0.00000	0.00001	0.00001
	(AN * C * !Y)	0.00030	0.00030	0.00031
	(!AN * C * !Y)	-0.00005	-0.00005	-0.00005
	(!AN * C * !Y)	-0.00008	-0.00007	-0.00007
	(!AN * C * !Y)	0.00000	0.00001	0.00001
	(!AN * C * !Y)	0.00026	0.00026	0.00027
	(!AN * !C * !Y)	-0.00005	-0.00005	-0.00005
	(!AN * !C * !Y)	-0.00006	-0.00006	-0.00006
	(!AN * !C * !Y)	0.00000	0.00001	0.00001
	(!AN * !C * !Y)	0.00026	0.00026	0.00027

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX1H7H	(AN * C * !Y)	0.00013	0.00013	0.00013
	(AN * C * !Y)	0.00002	0.00003	0.00003
	(AN * C * !Y)	-0.00001	-0.00001	-0.00000
	(AN * C * !Y)	-0.00030	-0.00030	-0.00029
	(!AN * C * !Y)	0.00005	0.00005	0.00005
	(!AN * C * !Y)	0.00007	0.00007	0.00008
	(!AN * C * !Y)	-0.00001	-0.00001	-0.00000
	(!AN * C * !Y)	-0.00027	-0.00026	-0.00026
	(!AN * !C * !Y)	0.00005	0.00005	0.00005
	(!AN * !C * !Y)	0.00006	0.00006	0.00006
	(!AN * !C * !Y)	-0.00001	-0.00001	-0.00000
	(!AN * !C * !Y)	-0.00027	-0.00026	-0.00026

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX1H7H	(B * !Y)	-0.00000	0.00000	0.00000
	(B * !Y)	-0.00004	-0.00004	-0.00004
	(B * !Y)	0.00000	0.00001	0.00001
	(B * !Y)	0.00038	0.00039	0.00039
	(!AN * !B * !Y)	-0.00000	-0.00000	0.00000
	(!AN * !B * !Y)	-0.00004	-0.00004	-0.00004
	(!AN * !B * !Y)	0.00000	0.00001	0.00001
	(!AN * !B * !Y)	0.00039	0.00039	0.00039

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX1H7H	(B * !Y)	-0.00000	0.00000	0.00000
	(B * !Y)	0.00004	0.00004	0.00005
	(B * !Y)	-0.00001	-0.00000	-0.00000
	(B * !Y)	-0.00039	-0.00039	-0.00038
	(!AN * !B * !Y)	0.00000	0.00001	0.00001
	(!AN * !B * !Y)	0.00004	0.00005	0.00006
	(!AN * !B * !Y)	-0.00001	-0.00001	-0.00000
	(!AN * !B * !Y)	-0.00039	-0.00039	-0.00039

NOR3BX1P4H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

NOR3B, In: AN, B, C, Out: Y

Truth Table

INPUT			OUTPUT
AN	B	C	Y
0	x	x	0
1	0	0	1
1	x	1	0
1	1	x	0

Footprint

Cell Name	Area
NOR3BX1P4H7H	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	AN	B	C	Y
NOR3BX1P4H7H	0.00095	0.00099	0.00109	0.01540

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR3BX1P4H7H	0.00000	0.01889	0.05261

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR3BX1P4H7H	AN->Y (RR)	0.09044	0.24851	0.63201
	B->Y (FR)	0.06467	0.23749	0.73711
	C->Y (FR)	0.05721	0.22384	0.71446

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR3BX1P4H7H	AN->Y (FF)	0.05579	0.13806	0.32220
	B->Y (RF)	0.01874	0.10108	0.38947
	C->Y (RF)	0.01748	0.09750	0.38594

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR3BX1P4H7H	AN	0.00123	0.00127	0.00133
	AN	-0.00015	-0.00015	-0.00015
	AN	0.00009	0.00009	0.00009
	AN	0.00109	0.00114	0.00119
	B	0.00115	0.00118	0.00121
	B	-0.00013	-0.00011	-0.00011
	B	0.00011	0.00011	0.00011
	B	-0.00006	-0.00003	0.00001
	C	0.00091	0.00096	0.00101
	C	-0.00004	-0.00003	-0.00003
	C	0.00011	0.00011	0.00011
	C	-0.00007	-0.00003	0.00002

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR3BX1P4H7H	AN	0.00104	0.00107	0.00112
	AN	0.00015	0.00015	0.00015
	AN	-0.00009	-0.00009	-0.00009
	AN	0.00109	0.00112	0.00117
	B	-0.00015	-0.00011	-0.00009
	B	0.00011	0.00011	0.00014
	B	-0.00011	-0.00011	-0.00011
	B	0.00101	0.00104	0.00107
	C	-0.00016	-0.00011	-0.00007
	C	0.00003	0.00004	0.00004
	C	-0.00011	-0.00011	-0.00011
	C	0.00084	0.00088	0.00092

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX1P4H7H	(B * C * !Y)	-0.00000	0.00002	0.00006
	(B * C * !Y)	0.00005	0.00005	0.00006
	(B * C * !Y)	-0.00003	-0.00003	-0.00003
	(B * C * !Y)	0.00079	0.00081	0.00085
	(B * !C * !Y) + (!B * C * !Y)	0.00000	0.00003	0.00006
	(B * !C * !Y) + (!B * C * !Y)	0.00005	0.00005	0.00006
	(B * !C * !Y) + (!B * C * !Y)	-0.00003	-0.00003	-0.00003
	(B * !C * !Y) + (!B * C * !Y)	0.00079	0.00081	0.00085

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX1P4H7H	(B * C * !Y)	0.00091	0.00093	0.00096
	(B * C * !Y)	-0.00006	-0.00005	-0.00005
	(B * C * !Y)	0.00003	0.00003	0.00003
	(B * C * !Y)	0.00011	0.00014	0.00017
	(B * !C * !Y) + (!B * C * !Y)	0.00091	0.00093	0.00096
	(B * !C * !Y) + (!B * C * !Y)	-0.00006	-0.00005	-0.00005
	(B * !C * !Y) + (!B * C * !Y)	0.00003	0.00003	0.00003
	(B * !C * !Y) + (!B * C * !Y)	0.00011	0.00014	0.00017

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX1P4H7H	(AN * C * !Y)	-0.00015	-0.00013	-0.00011
	(AN * C * !Y)	-0.00003	-0.00003	-0.00003
	(AN * C * !Y)	0.00001	0.00001	0.00001
	(AN * C * !Y)	0.00031	0.00031	0.00031
	(!AN * C * !Y)	-0.00004	-0.00004	-0.00004
	(!AN * C * !Y)	-0.00009	-0.00009	-0.00009
	(!AN * C * !Y)	0.00001	0.00001	0.00001
	(!AN * C * !Y)	0.00028	0.00029	0.00029
	(!AN * !C * !Y)	-0.00004	-0.00004	-0.00004
	(!AN * !C * !Y)	-0.00007	-0.00007	-0.00007
	(!AN * !C * !Y)	0.00001	0.00001	0.00001
	(!AN * !C * !Y)	0.00029	0.00029	0.00029

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX1P4H7H	(AN * C * !Y)	0.00015	0.00015	0.00015
	(AN * C * !Y)	0.00003	0.00003	0.00003
	(AN * C * !Y)	-0.00001	-0.00001	-0.00000
	(AN * C * !Y)	-0.00031	-0.00031	-0.00030
	(!AN * C * !Y)	0.00004	0.00004	0.00004
	(!AN * C * !Y)	0.00009	0.00009	0.00009
	(!AN * C * !Y)	-0.00001	-0.00001	-0.00001
	(!AN * C * !Y)	-0.00029	-0.00029	-0.00028
	(!AN * !C * !Y)	0.00004	0.00004	0.00004
	(!AN * !C * !Y)	0.00007	0.00007	0.00007
	(!AN * !C * !Y)	-0.00001	-0.00001	-0.00000
	(!AN * !C * !Y)	-0.00029	-0.00029	-0.00028

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX1P4H7H	(B * !Y)	-0.00000	0.00000	0.00000
	(B * !Y)	-0.00005	-0.00005	-0.00005
	(B * !Y)	0.00001	0.00001	0.00001
	(B * !Y)	0.00039	0.00040	0.00040
	(!AN * !B * !Y)	-0.00000	-0.00000	-0.00000
	(!AN * !B * !Y)	-0.00005	-0.00004	-0.00003
	(!AN * !B * !Y)	0.00001	0.00001	0.00001
	(!AN * !B * !Y)	0.00040	0.00040	0.00040

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX1P4H7H	(B * !Y)	-0.00000	0.00000	0.00000
	(B * !Y)	0.00005	0.00005	0.00005
	(B * !Y)	-0.00001	-0.00001	-0.00000
	(B * !Y)	-0.00040	-0.00039	-0.00039
	(!AN * !B * !Y)	0.00000	0.00001	0.00002
	(!AN * !B * !Y)	0.00003	0.00005	0.00005
	(!AN * !B * !Y)	-0.00001	-0.00001	-0.00000
	(!AN * !B * !Y)	-0.00040	-0.00039	-0.00039

NOR3BX2H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

NOR3B, In: AN, B, C, Out: Y

Truth Table

INPUT			OUTPUT
AN	B	C	Y
0	x	x	0
1	0	0	1
1	x	1	0
1	1	x	0

Footprint

Cell Name	Area
NOR3BX2H7H	3.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	AN	B	C	Y
NOR3BX2H7H	0.00098	0.00144	0.00169	0.01739

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR3BX2H7H	0.00000	0.01762	0.02611

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR3BX2H7H	AN->Y (RR)	0.11021	0.27233	0.66652
	B->Y (FR)	0.07681	0.24959	0.74574
	C->Y (FR)	0.07043	0.23683	0.72204

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR3BX2H7H	AN->Y (FF)	0.06634	0.14994	0.33993
	B->Y (RF)	0.01869	0.09269	0.35077
	C->Y (RF)	0.01790	0.08979	0.34761

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR3BX2H7H	AN	0.00182	0.00189	0.00197
	AN	-0.00020	-0.00018	-0.00018
	AN	0.00012	0.00012	0.00012
	AN	0.00137	0.00144	0.00153
	B	0.00168	0.00173	0.00179
	B	-0.00015	-0.00013	-0.00010
	B	0.00014	0.00014	0.00015
	B	-0.00006	-0.00001	0.00005
	C	0.00141	0.00148	0.00158
	C	-0.00005	-0.00004	-0.00003
	C	0.00014	0.00014	0.00015
	C	-0.00010	-0.00003	0.00005

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR3BX2H7H	AN	0.00140	0.00145	0.00152
	AN	0.00018	0.00018	0.00020
	AN	-0.00012	-0.00012	-0.00012
	AN	0.00174	0.00179	0.00186
	B	-0.00019	-0.00014	-0.00010
	B	0.00010	0.00013	0.00016
	B	-0.00014	-0.00014	-0.00013
	B	0.00149	0.00153	0.00158
	C	-0.00022	-0.00015	-0.00009
	C	0.00003	0.00004	0.00005
	C	-0.00014	-0.00014	-0.00014
	C	0.00130	0.00136	0.00142

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX2H7H	(B * C * !Y)	0.00002	0.00005	0.00009
	(B * C * !Y)	0.00006	0.00006	0.00006
	(B * C * !Y)	-0.00003	-0.00003	-0.00003
	(B * C * !Y)	0.00085	0.00087	0.00091
	(B * !C * !Y) + (!B * C * !Y)	0.00003	0.00005	0.00009
	(B * !C * !Y) + (!B * C * !Y)	0.00005	0.00006	0.00006
	(B * !C * !Y) + (!B * C * !Y)	-0.00003	-0.00003	-0.00003
	(B * !C * !Y) + (!B * C * !Y)	0.00085	0.00087	0.00090

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX2H7H	(B * C * !Y)	0.00117	0.00120	0.00124
	(B * C * !Y)	-0.00006	-0.00006	-0.00006
	(B * C * !Y)	0.00003	0.00003	0.00003
	(B * C * !Y)	0.00035	0.00038	0.00042
	(B * !C * !Y) + (!B * C * !Y)	0.00117	0.00120	0.00124
	(B * !C * !Y) + (!B * C * !Y)	-0.00006	-0.00006	-0.00005
	(B * !C * !Y) + (!B * C * !Y)	0.00003	0.00003	0.00003
	(B * !C * !Y) + (!B * C * !Y)	0.00035	0.00038	0.00042

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX2H7H	(AN * C * !Y)	-0.00018	-0.00016	-0.00013
	(AN * C * !Y)	-0.00004	-0.00004	-0.00004
	(AN * C * !Y)	0.00001	0.00001	0.00001
	(AN * C * !Y)	0.00049	0.00049	0.00050
	(!AN * C * !Y)	-0.00005	-0.00005	-0.00005
	(!AN * C * !Y)	-0.00011	-0.00011	-0.00010
	(!AN * C * !Y)	0.00001	0.00001	0.00001
	(!AN * C * !Y)	0.00047	0.00047	0.00047
	(!AN * !C * !Y)	-0.00005	-0.00005	-0.00005
	(!AN * !C * !Y)	-0.00009	-0.00009	-0.00009
	(!AN * !C * !Y)	0.00001	0.00001	0.00001
	(!AN * !C * !Y)	0.00046	0.00047	0.00047

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX2H7H	(AN * C * !Y)	0.00018	0.00018	0.00018
	(AN * C * !Y)	0.00004	0.00004	0.00004
	(AN * C * !Y)	-0.00001	-0.00001	-0.00001
	(AN * C * !Y)	-0.00049	-0.00049	-0.00048
	(!AN * C * !Y)	0.00005	0.00005	0.00005
	(!AN * C * !Y)	0.00010	0.00011	0.00011
	(!AN * C * !Y)	-0.00001	-0.00001	-0.00001
	(!AN * C * !Y)	-0.00047	-0.00047	-0.00046
	(!AN * !C * !Y)	0.00005	0.00005	0.00005
	(!AN * !C * !Y)	0.00009	0.00009	0.00009
	(!AN * !C * !Y)	-0.00001	-0.00001	-0.00001
	(!AN * !C * !Y)	-0.00047	-0.00046	-0.00046

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX2H7H	(B * !Y)	-0.00000	0.00000	0.00000
	(B * !Y)	-0.00005	-0.00005	-0.00005
	(B * !Y)	0.00001	0.00001	0.00001
	(B * !Y)	0.00065	0.00065	0.00065
	(!AN * !B * !Y)	-0.00000	-0.00000	0.00000
	(!AN * !B * !Y)	-0.00005	-0.00005	-0.00005
	(!AN * !B * !Y)	0.00001	0.00001	0.00001
	(!AN * !B * !Y)	0.00065	0.00065	0.00066

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX2H7H	(B * !Y)	-0.00000	0.00000	0.00000
	(B * !Y)	0.00006	0.00006	0.00006
	(B * !Y)	-0.00001	-0.00001	-0.00001
	(B * !Y)	-0.00065	-0.00065	-0.00064
	(!AN * !B * !Y)	0.00000	0.00001	0.00001
	(!AN * !B * !Y)	0.00006	0.00006	0.00008
	(!AN * !B * !Y)	-0.00001	-0.00001	-0.00001
	(!AN * !B * !Y)	-0.00065	-0.00065	-0.00065

NOR3BX3H7H

Cell Description

NOR3B, In: AN, B, C, Out: Y

Truth Table

INPUT			OUTPUT
AN	B	C	Y
0	x	x	0
1	0	0	1
1	x	1	0
1	1	x	0

Footprint

Cell Name	Area
NOR3BX3H7H	3.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	AN	B	C	Y
NOR3BX3H7H	0.00111	0.00189	0.00195	0.02866

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR3BX3H7H	0.00000	0.03158	0.07770

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR3BX3H7H	AN->Y (RR)	0.09583	0.26561	0.67930
	B->Y (FR)	0.06266	0.23904	0.74956
	C->Y (FR)	0.04890	0.21826	0.71945

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR3BX3H7H	AN->Y (FF)	0.06111	0.14981	0.35106
	B->Y (RF)	0.01746	0.09936	0.38886
	C->Y (RF)	0.01556	0.09400	0.38408

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR3BX3H7H	AN	0.00266	0.00274	0.00284
	AN	-0.00028	-0.00028	-0.00026
	AN	0.00017	0.00018	0.00018
	AN	0.00183	0.00191	0.00201
	B	0.00232	0.00239	0.00245
	B	-0.00022	-0.00019	-0.00014
	B	0.00020	0.00021	0.00021
	B	0.00001	0.00007	0.00013
	C	0.00167	0.00175	0.00185
	C	-0.00007	-0.00006	-0.00005
	C	0.00020	0.00021	0.00021
	C	-0.00014	-0.00006	0.00003

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR3BX3H7H	AN	0.00168	0.00176	0.00185
	AN	0.00026	0.00028	0.00028
	AN	-0.00018	-0.00018	-0.00017
	AN	0.00231	0.00239	0.00247
	B	-0.00032	-0.00024	-0.00017
	B	0.00014	0.00019	0.00023
	B	-0.00021	-0.00020	-0.00020
	B	0.00190	0.00196	0.00203
	C	-0.00029	-0.00020	-0.00013
	C	0.00005	0.00006	0.00008
	C	-0.00021	-0.00020	-0.00020
	C	0.00154	0.00161	0.00168

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX3H7H	(B * C * !Y)	0.00010	0.00013	0.00016
	(B * C * !Y)	0.00009	0.00010	0.00010
	(B * C * !Y)	-0.00004	-0.00004	-0.00004
	(B * C * !Y)	0.00107	0.00111	0.00115
	(B * !C * !Y) + (!B * C * !Y)	0.00010	0.00013	0.00018
	(B * !C * !Y) + (!B * C * !Y)	0.00008	0.00009	0.00010
	(B * !C * !Y) + (!B * C * !Y)	-0.00004	-0.00004	-0.00004
	(B * !C * !Y) + (!B * C * !Y)	0.00108	0.00111	0.00115

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX3H7H	(B * C * !Y)	0.00137	0.00140	0.00145
	(B * C * !Y)	-0.00010	-0.00010	-0.00009
	(B * C * !Y)	0.00004	0.00004	0.00004
	(B * C * !Y)	0.00039	0.00042	0.00046
	(B * !C * !Y) + (!B * C * !Y)	0.00137	0.00140	0.00145
	(B * !C * !Y) + (!B * C * !Y)	-0.00010	-0.00009	-0.00008
	(B * !C * !Y) + (!B * C * !Y)	0.00004	0.00004	0.00004
	(B * !C * !Y) + (!B * C * !Y)	0.00039	0.00042	0.00046

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX3H7H	(AN * C * !Y)	-0.00035	-0.00032	-0.00026
	(AN * C * !Y)	-0.00006	-0.00005	-0.00005
	(AN * C * !Y)	0.00000	0.00001	0.00001
	(AN * C * !Y)	0.00054	0.00055	0.00058
	(!AN * C * !Y)	-0.00007	-0.00007	-0.00007
	(!AN * C * !Y)	-0.00015	-0.00015	-0.00015
	(!AN * C * !Y)	0.00001	0.00001	0.00001
	(!AN * C * !Y)	0.00057	0.00057	0.00058
	(!AN * !C * !Y)	-0.00007	-0.00007	-0.00007
	(!AN * !C * !Y)	-0.00013	-0.00013	-0.00013
	(!AN * !C * !Y)	0.00001	0.00001	0.00001
	(!AN * !C * !Y)	0.00057	0.00057	0.00057

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX3H7H	(AN * C * !Y)	0.00035	0.00035	0.00035
	(AN * C * !Y)	0.00005	0.00005	0.00006
	(AN * C * !Y)	-0.00001	-0.00001	0.00000
	(AN * C * !Y)	-0.00055	-0.00054	-0.00054
	(!AN * C * !Y)	0.00007	0.00007	0.00007
	(!AN * C * !Y)	0.00015	0.00015	0.00015
	(!AN * C * !Y)	-0.00001	-0.00001	-0.00001
	(!AN * C * !Y)	-0.00057	-0.00057	-0.00056
	(!AN * !C * !Y)	0.00007	0.00007	0.00007
	(!AN * !C * !Y)	0.00013	0.00013	0.00013
	(!AN * !C * !Y)	-0.00001	-0.00001	-0.00001
	(!AN * !C * !Y)	-0.00057	-0.00056	-0.00056

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX3H7H	(B * !Y)	-0.00001	-0.00001	-0.00001
	(B * !Y)	-0.00008	-0.00007	-0.00007
	(B * !Y)	0.00001	0.00001	0.00001
	(B * !Y)	0.00073	0.00074	0.00074
	(!AN * !B * !Y)	-0.00000	-0.00000	-0.00000
	(!AN * !B * !Y)	-0.00008	-0.00008	-0.00007
	(!AN * !B * !Y)	0.00001	0.00001	0.00001
	(!AN * !B * !Y)	0.00073	0.00074	0.00074

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX3H7H	(B * !Y)	0.00001	0.00001	0.00001
	(B * !Y)	0.00008	0.00008	0.00008
	(B * !Y)	-0.00001	-0.00001	-0.00001
	(B * !Y)	-0.00074	-0.00073	-0.00072
	(!AN * !B * !Y)	0.00001	0.00002	0.00002
	(!AN * !B * !Y)	0.00007	0.00008	0.00009
	(!AN * !B * !Y)	-0.00001	-0.00001	-0.00001
	(!AN * !B * !Y)	-0.00073	-0.00073	-0.00072

NOR3BX4H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

NOR3B, In: AN, B, C, Out: Y

Truth Table

INPUT			OUTPUT
AN	B	C	Y
0	x	x	0
1	0	0	1
1	x	1	0
1	1	x	0

Footprint

Cell Name	Area
NOR3BX4H7H	5.32000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	AN	B	C	Y
NOR3BX4H7H	0.00112	0.00269	0.00283	0.03835

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR3BX4H7H	0.00000	0.04232	0.09361

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR3BX4H7H	AN->Y (RR)	0.09951	0.27255	0.69470
	B->Y (FR)	0.06388	0.23942	0.74781
	C->Y (FR)	0.05216	0.22122	0.72048

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR3BX4H7H	AN->Y (FF)	0.06624	0.15819	0.36910
	B->Y (RF)	0.01766	0.09809	0.38312
	C->Y (RF)	0.01592	0.09334	0.37861

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR3BX4H7H	AN	0.00382	0.00392	0.00404
	AN	-0.00038	-0.00038	-0.00037
	AN	0.00024	0.00024	0.00025
	AN	0.00230	0.00240	0.00251
	B	0.00332	0.00340	0.00350
	B	-0.00030	-0.00026	-0.00021
	B	0.00028	0.00028	0.00028
	B	-0.00003	0.00006	0.00016
	C	0.00251	0.00264	0.00278
	C	-0.00009	-0.00008	-0.00006
	C	0.00027	0.00028	0.00028
	C	-0.00015	-0.00004	0.00009

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR3BX4H7H	AN	0.00213	0.00223	0.00232
	AN	0.00037	0.00038	0.00038
	AN	-0.00024	-0.00024	-0.00024
	AN	0.00339	0.00350	0.00359
	B	-0.00045	-0.00034	-0.00027
	B	0.00021	0.00026	0.00031
	B	-0.00028	-0.00028	-0.00026
	B	0.00273	0.00285	0.00293
	C	-0.00042	-0.00028	-0.00018
	C	0.00006	0.00008	0.00010
	C	-0.00028	-0.00028	-0.00027
	C	0.00227	0.00238	0.00248

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX4H7H	(B * C * !Y)	0.00019	0.00022	0.00026
	(B * C * !Y)	0.00012	0.00013	0.00013
	(B * C * !Y)	-0.00005	-0.00005	-0.00005
	(B * C * !Y)	0.00121	0.00124	0.00128
	(B * !C * !Y) + (!B * C * !Y)	0.00020	0.00023	0.00028
	(B * !C * !Y) + (!B * C * !Y)	0.00011	0.00012	0.00012
	(B * !C * !Y) + (!B * C * !Y)	-0.00005	-0.00005	-0.00005
	(B * !C * !Y) + (!B * C * !Y)	0.00121	0.00124	0.00128

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX4H7H	(B * C * !Y)	0.00170	0.00174	0.00179
	(B * C * !Y)	-0.00013	-0.00013	-0.00012
	(B * C * !Y)	0.00005	0.00005	0.00005
	(B * C * !Y)	0.00068	0.00071	0.00075
	(B * !C * !Y) + (!B * C * !Y)	0.00170	0.00174	0.00180
	(B * !C * !Y) + (!B * C * !Y)	-0.00012	-0.00012	-0.00011
	(B * !C * !Y) + (!B * C * !Y)	0.00005	0.00005	0.00005
	(B * !C * !Y) + (!B * C * !Y)	0.00068	0.00071	0.00075

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX4H7H	(AN * C * !Y)	-0.00049	-0.00043	-0.00036
	(AN * C * !Y)	-0.00008	-0.00008	-0.00007
	(AN * C * !Y)	0.00001	0.00002	0.00002
	(AN * C * !Y)	0.00081	0.00083	0.00086
	(!AN * C * !Y)	-0.00008	-0.00008	-0.00008
	(!AN * C * !Y)	-0.00022	-0.00021	-0.00021
	(!AN * C * !Y)	0.00001	0.00002	0.00002
	(!AN * C * !Y)	0.00087	0.00087	0.00087
	(!AN * !C * !Y)	-0.00008	-0.00008	-0.00008
	(!AN * !C * !Y)	-0.00018	-0.00018	-0.00017
	(!AN * !C * !Y)	0.00001	0.00001	0.00002
	(!AN * !C * !Y)	0.00086	0.00087	0.00087

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX4H7H	(AN * C * !Y)	0.00048	0.00048	0.00049
	(AN * C * !Y)	0.00007	0.00008	0.00008
	(AN * C * !Y)	-0.00001	-0.00001	-0.00001
	(AN * C * !Y)	-0.00082	-0.00081	-0.00081
	(!AN * C * !Y)	0.00008	0.00008	0.00008
	(!AN * C * !Y)	0.00021	0.00021	0.00022
	(!AN * C * !Y)	-0.00002	-0.00001	-0.00001
	(!AN * C * !Y)	-0.00087	-0.00086	-0.00085
	(!AN * !C * !Y)	0.00008	0.00008	0.00008
	(!AN * !C * !Y)	0.00018	0.00018	0.00018
	(!AN * !C * !Y)	-0.00001	-0.00001	-0.00001
	(!AN * !C * !Y)	-0.00086	-0.00086	-0.00085

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX4H7H	(B * !Y)	-0.00002	-0.00002	-0.00002
	(B * !Y)	-0.00011	-0.00011	-0.00011
	(B * !Y)	0.00001	0.00002	0.00002
	(B * !Y)	0.00110	0.00110	0.00111
	(!AN * !B * !Y)	-0.00001	-0.00000	0.00000
	(!AN * !B * !Y)	-0.00012	-0.00011	-0.00011
	(!AN * !B * !Y)	0.00001	0.00002	0.00002
	(!AN * !B * !Y)	0.00109	0.00110	0.00111

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX4H7H	(B * !Y)	0.00002	0.00002	0.00002
	(B * !Y)	0.00011	0.00012	0.00012
	(B * !Y)	-0.00002	-0.00002	-0.00001
	(B * !Y)	-0.00110	-0.00110	-0.00108
	(!AN * !B * !Y)	0.00000	0.00002	0.00003
	(!AN * !B * !Y)	0.00011	0.00012	0.00015
	(!AN * !B * !Y)	-0.00001	-0.00001	-0.00001
	(!AN * !B * !Y)	-0.00110	-0.00109	-0.00106

NOR3BX6H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

NOR3B, In: AN, B, C, Out: Y

Truth Table

INPUT			OUTPUT
AN	B	C	Y
0	x	x	0
1	0	0	1
1	x	1	0
1	1	x	0

Footprint

Cell Name	Area
NOR3BX6H7H	4.76000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	AN	B	C	Y
NOR3BX6H7H	0.00129	0.00332	0.00343	0.05352

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR3BX6H7H	0.00000	0.07043	0.22798

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR3BX6H7H	AN->Y (RR)	0.09396	0.26980	0.69925
	B->Y (FR)	0.05705	0.23502	0.75136
	C->Y (FR)	0.04540	0.21652	0.72380

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR3BX6H7H	AN->Y (FF)	0.06584	0.16002	0.37668
	B->Y (RF)	0.01637	0.09784	0.38980
	C->Y (RF)	0.01454	0.09277	0.38526

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR3BX6H7H	AN	0.00491	0.00503	0.00518
	AN	-0.00057	-0.00057	-0.00055
	AN	0.00036	0.00037	0.00037
	AN	0.00274	0.00287	0.00302
	B	0.00419	0.00429	0.00441
	B	-0.00039	-0.00038	-0.00035
	B	0.00040	0.00040	0.00041
	B	-0.00006	0.00004	0.00016
	C	0.00311	0.00328	0.00345
	C	-0.00014	-0.00013	-0.00011
	C	0.00040	0.00040	0.00041
	C	-0.00014	-0.00001	0.00015

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR3BX6H7H	AN	0.00251	0.00263	0.00274
	AN	0.00055	0.00057	0.00057
	AN	-0.00037	-0.00036	-0.00036
	AN	0.00429	0.00443	0.00456
	B	-0.00057	-0.00043	-0.00033
	B	0.00035	0.00038	0.00039
	B	-0.00041	-0.00040	-0.00040
	B	0.00350	0.00361	0.00372
	C	-0.00056	-0.00040	-0.00026
	C	0.00011	0.00013	0.00017
	C	-0.00041	-0.00040	-0.00039
	C	0.00274	0.00287	0.00300

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX6H7H	(B * C * !Y)	0.00030	0.00034	0.00038
	(B * C * !Y)	0.00016	0.00017	0.00018
	(B * C * !Y)	-0.00006	-0.00006	-0.00006
	(B * C * !Y)	0.00150	0.00154	0.00159
	(B * !C * !Y) + (!B * C * !Y)	0.00031	0.00035	0.00039
	(B * !C * !Y) + (!B * C * !Y)	0.00015	0.00016	0.00016
	(B * !C * !Y) + (!B * C * !Y)	-0.00006	-0.00006	-0.00006
	(B * !C * !Y) + (!B * C * !Y)	0.00150	0.00154	0.00158

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX6H7H	(B * C * !Y)	0.00196	0.00201	0.00207
	(B * C * !Y)	-0.00018	-0.00017	-0.00016
	(B * C * !Y)	0.00006	0.00006	0.00006
	(B * C * !Y)	0.00075	0.00079	0.00084
	(B * !C * !Y) + (!B * C * !Y)	0.00196	0.00201	0.00207
	(B * !C * !Y) + (!B * C * !Y)	-0.00016	-0.00016	-0.00015
	(B * !C * !Y) + (!B * C * !Y)	0.00006	0.00006	0.00006
	(B * !C * !Y) + (!B * C * !Y)	0.00075	0.00079	0.00084

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX6H7H	(AN * C * !Y)	-0.00063	-0.00056	-0.00046
	(AN * C * !Y)	-0.00011	-0.00011	-0.00011
	(AN * C * !Y)	0.00002	0.00002	0.00003
	(AN * C * !Y)	0.00092	0.00093	0.00097
	(!AN * C * !Y)	-0.00009	-0.00009	-0.00009
	(!AN * C * !Y)	-0.00031	-0.00031	-0.00030
	(!AN * C * !Y)	0.00002	0.00002	0.00002
	(!AN * C * !Y)	0.00096	0.00097	0.00097
	(!AN * !C * !Y)	-0.00009	-0.00009	-0.00009
	(!AN * !C * !Y)	-0.00026	-0.00025	-0.00025
	(!AN * !C * !Y)	0.00002	0.00002	0.00003
	(!AN * !C * !Y)	0.00095	0.00096	0.00097

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX6H7H	(AN * C * !Y)	0.00062	0.00062	0.00063
	(AN * C * !Y)	0.00011	0.00011	0.00011
	(AN * C * !Y)	-0.00003	-0.00002	-0.00002
	(AN * C * !Y)	-0.00092	-0.00092	-0.00091
	(!AN * C * !Y)	0.00009	0.00009	0.00009
	(!AN * C * !Y)	0.00030	0.00031	0.00031
	(!AN * C * !Y)	-0.00002	-0.00002	-0.00002
	(!AN * C * !Y)	-0.00096	-0.00095	-0.00094
	(!AN * !C * !Y)	0.00009	0.00009	0.00009
	(!AN * !C * !Y)	0.00026	0.00026	0.00026
	(!AN * !C * !Y)	-0.00002	-0.00002	-0.00002
	(!AN * !C * !Y)	-0.00096	-0.00095	-0.00094

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX6H7H	(B * !Y)	-0.00002	-0.00002	-0.00002
	(B * !Y)	-0.00017	-0.00016	-0.00016
	(B * !Y)	0.00002	0.00002	0.00003
	(B * !Y)	0.00123	0.00123	0.00123
	(!AN * !B * !Y)	-0.00001	-0.00000	0.00001
	(!AN * !B * !Y)	-0.00019	-0.00017	-0.00015
	(!AN * !B * !Y)	0.00002	0.00002	0.00002
	(!AN * !B * !Y)	0.00123	0.00123	0.00123

Passive power(pJ) for C falling (conditional):

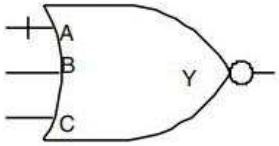
Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX6H7H	(B * !Y)	0.00002	0.00002	0.00002
	(B * !Y)	0.00017	0.00017	0.00018
	(B * !Y)	-0.00002	-0.00002	-0.00002
	(B * !Y)	-0.00123	-0.00122	-0.00121
	(!AN * !B * !Y)	0.00002	0.00003	0.00005
	(!AN * !B * !Y)	0.00015	0.00017	0.00019
	(!AN * !B * !Y)	-0.00002	-0.00002	-0.00002
	(!AN * !B * !Y)	-0.00123	-0.00122	-0.00121

NOR3X0P5H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NOR3 cell provides a logical NOR of three inputs (A, B, C). The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	0	0	1
0	x	1	0
x	1	x	0
1	x	x	0

Footprint

Cell Name	Area
NOR3X0P5H7H	1.40000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
NOR3X0P5H7H	0.00079	0.00083	0.00093	0.00979

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR3X0P5H7H	0.00000	0.00718	0.00973

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR3X0P5H7H	A->Y (FR)	0.08615	0.25005	0.70790
	B->Y (FR)	0.08432	0.25180	0.73183
	C->Y (FR)	0.07951	0.24100	0.71107

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR3X0P5H7H	A->Y (RF)	0.02278	0.10417	0.37362
	B->Y (RF)	0.02238	0.10193	0.37083
	C->Y (RF)	0.02159	0.09946	0.36873

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR3X0P5H7H	A	0.00104	0.00107	0.00109
	A	-0.00011	-0.00011	-0.00010
	A	0.00007	0.00007	0.00007
	A	-0.00011	-0.00009	-0.00007
	B	0.00092	0.00095	0.00098
	B	-0.00007	-0.00006	-0.00006
	B	0.00007	0.00007	0.00007
	B	-0.00006	-0.00003	-0.00000
	C	0.00079	0.00083	0.00087
	C	-0.00002	-0.00002	-0.00002
	C	0.00007	0.00007	0.00007
	C	-0.00008	-0.00005	-0.00001

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR3X0P5H7H	A	-0.00009	-0.00007	-0.00006
	A	0.00010	0.00011	0.00011
	A	-0.00007	-0.00007	-0.00007
	A	0.00100	0.00102	0.00104
	B	-0.00010	-0.00007	-0.00006
	B	0.00006	0.00006	0.00007
	B	-0.00007	-0.00007	-0.00007
	B	0.00085	0.00087	0.00089
	C	-0.00011	-0.00007	-0.00005
	C	0.00002	0.00002	0.00002
	C	-0.00007	-0.00007	-0.00007
	C	0.00077	0.00080	0.00083

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X0P5H7H	(B * C * !Y)	-0.00009	-0.00008	-0.00007
	(B * C * !Y)	-0.00002	-0.00002	-0.00002
	(B * C * !Y)	0.00000	0.00000	0.00000
	(B * C * !Y)	0.00030	0.00030	0.00030
	(B * !C * !Y)	-0.00009	-0.00008	-0.00007
	(B * !C * !Y)	-0.00002	-0.00002	-0.00002
	(B * !C * !Y)	0.00000	0.00000	0.00000
	(B * !C * !Y)	0.00029	0.00030	0.00030
	(!B * C * !Y)	-0.00009	-0.00007	-0.00006
	(!B * C * !Y)	-0.00002	-0.00002	-0.00001
	(!B * C * !Y)	0.00000	0.00000	0.00000
	(!B * C * !Y)	0.00029	0.00030	0.00030

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X0P5H7H	(B * C * !Y)	0.00009	0.00009	0.00009
	(B * C * !Y)	0.00002	0.00002	0.00002
	(B * C * !Y)	-0.00000	-0.00000	-0.00000
	(B * C * !Y)	-0.00030	-0.00030	-0.00030
	(B * !C * !Y)	0.00009	0.00009	0.00009
	(B * !C * !Y)	0.00002	0.00002	0.00002
	(B * !C * !Y)	-0.00000	-0.00000	-0.00000
	(B * !C * !Y)	-0.00030	-0.00030	-0.00029
	(!B * C * !Y)	0.00008	0.00009	0.00009
	(!B * C * !Y)	0.00001	0.00002	0.00002
	(!B * C * !Y)	-0.00000	-0.00000	-0.00000
	(!B * C * !Y)	-0.00030	-0.00030	-0.00029

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X0P5H7H	(A * C * !Y)	-0.00000	-0.00000	0.00000
	(A * C * !Y)	-0.00006	-0.00006	-0.00006
	(A * C * !Y)	0.00000	0.00000	0.00000
	(A * C * !Y)	0.00025	0.00025	0.00025
	(A * !C * !Y)	-0.00000	0.00000	0.00000
	(A * !C * !Y)	-0.00005	-0.00005	-0.00005
	(A * !C * !Y)	0.00000	0.00000	0.00000
	(A * !C * !Y)	0.00025	0.00025	0.00025
	(!A * C * !Y)	-0.00010	-0.00009	-0.00007
	(!A * C * !Y)	-0.00002	-0.00002	-0.00002
	(!A * C * !Y)	0.00000	0.00000	0.00000
	(!A * C * !Y)	0.00025	0.00025	0.00025

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X0P5H7H	(A * C * !Y)	0.00000	0.00000	0.00000
	(A * C * !Y)	0.00006	0.00006	0.00006
	(A * C * !Y)	-0.00000	-0.00000	-0.00000
	(A * C * !Y)	-0.00025	-0.00025	-0.00025
	(A * !C * !Y)	-0.00000	0.00000	0.00000
	(A * !C * !Y)	0.00005	0.00005	0.00005
	(A * !C * !Y)	-0.00000	-0.00000	-0.00000
	(A * !C * !Y)	-0.00025	-0.00025	-0.00025
	(!A * C * !Y)	0.00009	0.00010	0.00010
	(!A * C * !Y)	0.00002	0.00002	0.00002
	(!A * C * !Y)	-0.00000	-0.00000	-0.00000
	(!A * C * !Y)	-0.00025	-0.00025	-0.00025

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X0P5H7H	(B * !Y)	-0.00000	0.00000	0.00000
	(B * !Y)	-0.00003	-0.00003	-0.00003
	(B * !Y)	0.00000	0.00000	0.00000
	(B * !Y)	0.00034	0.00034	0.00034
	(A * !B * !Y)	0.00000	0.00000	0.00000
	(A * !B * !Y)	-0.00003	-0.00003	-0.00003
	(A * !B * !Y)	0.00000	0.00000	0.00000
	(A * !B * !Y)	0.00034	0.00034	0.00034

Passive power(pJ) for C falling (conditional):

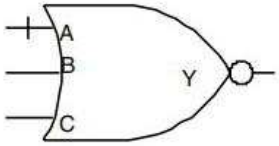
Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X0P5H7H	(B * !Y)	-0.00000	-0.00000	0.00000
	(B * !Y)	0.00003	0.00003	0.00003
	(B * !Y)	-0.00000	-0.00000	-0.00000
	(B * !Y)	-0.00034	-0.00034	-0.00034
	(A * !B * !Y)	0.00000	0.00000	0.00000
	(A * !B * !Y)	0.00003	0.00003	0.00003
	(A * !B * !Y)	-0.00000	-0.00000	-0.00000
	(A * !B * !Y)	-0.00034	-0.00034	-0.00033

NOR3X0P7H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NOR3 cell provides a logical NOR of three inputs (A, B, C). The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	0	0	1
0	x	1	0
x	1	x	0
1	x	x	0

Footprint

Cell Name	Area
NOR3X0P7H7H	1.40000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
NOR3X0P7H7H	0.00082	0.00085	0.00096	0.01122

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR3X0P7H7H	0.00000	0.00821	0.01588

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR3X0P7H7H	A->Y (FR)	0.07911	0.24501	0.70887
	B->Y (FR)	0.07687	0.24620	0.73371
	C->Y (FR)	0.07107	0.23432	0.71095

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR3X0P7H7H	A->Y (RF)	0.02126	0.10337	0.37857
	B->Y (RF)	0.02083	0.10095	0.37543
	C->Y (RF)	0.01990	0.09812	0.37279

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR3X0P7H7H	A	0.00111	0.00113	0.00116
	A	-0.00012	-0.00012	-0.00012
	A	0.00008	0.00008	0.00008
	A	-0.00013	-0.00011	-0.00008
	B	0.00097	0.00099	0.00102
	B	-0.00008	-0.00007	-0.00007
	B	0.00008	0.00008	0.00008
	B	-0.00007	-0.00004	-0.00001
	C	0.00081	0.00085	0.00090
	C	-0.00002	-0.00002	-0.00002
	C	0.00008	0.00008	0.00008
	C	-0.00011	-0.00007	-0.00003

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR3X0P7H7H	A	-0.00010	-0.00008	-0.00007
	A	0.00012	0.00012	0.00012
	A	-0.00008	-0.00008	-0.00008
	A	0.00106	0.00109	0.00111
	B	-0.00011	-0.00008	-0.00007
	B	0.00007	0.00007	0.00008
	B	-0.00008	-0.00008	-0.00008
	B	0.00089	0.00092	0.00094
	C	-0.00013	-0.00008	-0.00006
	C	0.00002	0.00002	0.00003
	C	-0.00008	-0.00008	-0.00008
	C	0.00080	0.00084	0.00087

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X0P7H7H	(B * C * !Y)	-0.00010	-0.00009	-0.00008
	(B * C * !Y)	-0.00002	-0.00002	-0.00002
	(B * C * !Y)	0.00000	0.00000	0.00000
	(B * C * !Y)	0.00030	0.00030	0.00030
	(B * !C * !Y)	-0.00010	-0.00009	-0.00008
	(B * !C * !Y)	-0.00002	-0.00002	-0.00002
	(B * !C * !Y)	0.00000	0.00000	0.00000
	(B * !C * !Y)	0.00030	0.00030	0.00030
	(!B * C * !Y)	-0.00010	-0.00009	-0.00007
	(!B * C * !Y)	-0.00003	-0.00002	-0.00002
	(!B * C * !Y)	0.00000	0.00000	0.00000
	(!B * C * !Y)	0.00030	0.00030	0.00030

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X0P7H7H	(B * C * !Y)	0.00010	0.00010	0.00010
	(B * C * !Y)	0.00002	0.00002	0.00002
	(B * C * !Y)	-0.00000	-0.00000	-0.00000
	(B * C * !Y)	-0.00030	-0.00030	-0.00030
	(B * !C * !Y)	0.00010	0.00010	0.00010
	(B * !C * !Y)	0.00002	0.00002	0.00002
	(B * !C * !Y)	-0.00000	-0.00000	-0.00000
	(B * !C * !Y)	-0.00030	-0.00030	-0.00030
	(!B * C * !Y)	0.00009	0.00010	0.00010
	(!B * C * !Y)	0.00002	0.00002	0.00003
	(!B * C * !Y)	-0.00000	-0.00000	-0.00000
	(!B * C * !Y)	-0.00030	-0.00030	-0.00030

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X0P7H7H	(A * C * !Y)	-0.00000	-0.00000	0.00000
	(A * C * !Y)	-0.00006	-0.00006	-0.00006
	(A * C * !Y)	0.00000	0.00000	0.00000
	(A * C * !Y)	0.00025	0.00025	0.00025
	(A * !C * !Y)	-0.00000	0.00000	0.00000
	(A * !C * !Y)	-0.00005	-0.00005	-0.00005
	(A * !C * !Y)	0.00000	0.00000	0.00000
	(A * !C * !Y)	0.00025	0.00025	0.00025
	(!A * C * !Y)	-0.00011	-0.00010	-0.00008
	(!A * C * !Y)	-0.00002	-0.00002	-0.00002
	(!A * C * !Y)	0.00000	0.00000	0.00000
	(!A * C * !Y)	0.00025	0.00025	0.00025

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X0P7H7H	(A * C * !Y)	0.00000	0.00000	0.00000
	(A * C * !Y)	0.00006	0.00006	0.00006
	(A * C * !Y)	-0.00000	-0.00000	-0.00000
	(A * C * !Y)	-0.00025	-0.00025	-0.00025
	(A * !C * !Y)	0.00000	0.00000	0.00000
	(A * !C * !Y)	0.00005	0.00005	0.00005
	(A * !C * !Y)	-0.00000	-0.00000	-0.00000
	(A * !C * !Y)	-0.00025	-0.00025	-0.00025
	(!A * C * !Y)	0.00011	0.00011	0.00011
	(!A * C * !Y)	0.00002	0.00002	0.00002
	(!A * C * !Y)	-0.00000	-0.00000	-0.00000
	(!A * C * !Y)	-0.00025	-0.00025	-0.00024

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X0P7H7H	(B * !Y)	-0.00000	0.00000	0.00000
	(B * !Y)	-0.00004	-0.00004	-0.00004
	(B * !Y)	0.00000	0.00000	0.00000
	(B * !Y)	0.00035	0.00035	0.00035
	(A * !B * !Y)	0.00000	0.00000	0.00000
	(A * !B * !Y)	-0.00003	-0.00003	-0.00003
	(A * !B * !Y)	0.00000	0.00000	0.00001
	(A * !B * !Y)	0.00035	0.00035	0.00035

Passive power(pJ) for C falling (conditional):

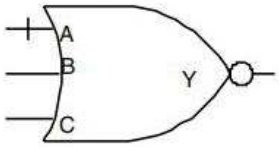
Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X0P7H7H	(B * !Y)	-0.00000	-0.00000	0.00000
	(B * !Y)	0.00004	0.00004	0.00004
	(B * !Y)	-0.00000	-0.00000	-0.00000
	(B * !Y)	-0.00035	-0.00035	-0.00035
	(A * !B * !Y)	-0.00000	0.00000	0.00000
	(A * !B * !Y)	0.00003	0.00004	0.00004
	(A * !B * !Y)	-0.00000	-0.00000	-0.00000
	(A * !B * !Y)	-0.00035	-0.00035	-0.00034

NOR3X1H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NOR3 cell provides a logical NOR of three inputs (A, B, C). The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	0	0	1
0	x	1	0
x	1	x	0
1	x	x	0

Footprint

Cell Name	Area
NOR3X1H7H	1.40000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
NOR3X1H7H	0.00088	0.00093	0.00105	0.01348

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR3X1H7H	0.00000	0.01041	0.02907

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR3X1H7H	A->Y (FR)	0.07175	0.23981	0.71072
	B->Y (FR)	0.06976	0.24100	0.73532
	C->Y (FR)	0.06363	0.22873	0.71295

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR3X1H7H	A->Y (RF)	0.02014	0.10421	0.38811
	B->Y (RF)	0.01983	0.10176	0.38525
	C->Y (RF)	0.01885	0.09870	0.38319

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR3X1H7H	A	0.00124	0.00127	0.00130
	A	-0.00015	-0.00015	-0.00015
	A	0.00010	0.00010	0.00010
	A	-0.00014	-0.00012	-0.00009
	B	0.00107	0.00110	0.00113
	B	-0.00009	-0.00009	-0.00008
	B	0.00010	0.00010	0.00010
	B	-0.00008	-0.00005	-0.00002
	C	0.00088	0.00093	0.00098
	C	-0.00003	-0.00003	-0.00003
	C	0.00009	0.00010	0.00010
	C	-0.00012	-0.00008	-0.00003

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR3X1H7H	A	-0.00012	-0.00010	-0.00008
	A	0.00015	0.00015	0.00015
	A	-0.00010	-0.00010	-0.00010
	A	0.00116	0.00120	0.00122
	B	-0.00013	-0.00010	-0.00008
	B	0.00008	0.00009	0.00009
	B	-0.00010	-0.00010	-0.00010
	B	0.00098	0.00102	0.00105
	C	-0.00015	-0.00010	-0.00006
	C	0.00003	0.00003	0.00004
	C	-0.00010	-0.00010	-0.00009
	C	0.00087	0.00091	0.00094

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X1H7H	(B * C * !Y)	-0.00012	-0.00011	-0.00009
	(B * C * !Y)	-0.00003	-0.00003	-0.00002
	(B * C * !Y)	0.00000	0.00001	0.00001
	(B * C * !Y)	0.00031	0.00031	0.00031
	(B * !C * !Y)	-0.00012	-0.00011	-0.00009
	(B * !C * !Y)	-0.00003	-0.00003	-0.00002
	(B * !C * !Y)	0.00000	0.00001	0.00001
	(B * !C * !Y)	0.00031	0.00031	0.00031
	(!B * C * !Y)	-0.00012	-0.00010	-0.00008
	(!B * C * !Y)	-0.00003	-0.00003	-0.00002
	(!B * C * !Y)	0.00000	0.00001	0.00001
	(!B * C * !Y)	0.00031	0.00031	0.00031

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X1H7H	(B * C * !Y)	0.00012	0.00012	0.00012
	(B * C * !Y)	0.00003	0.00003	0.00003
	(B * C * !Y)	-0.00001	-0.00001	-0.00000
	(B * C * !Y)	-0.00031	-0.00031	-0.00031
	(B * !C * !Y)	0.00012	0.00012	0.00012
	(B * !C * !Y)	0.00003	0.00003	0.00003
	(B * !C * !Y)	-0.00001	-0.00001	-0.00000
	(B * !C * !Y)	-0.00031	-0.00031	-0.00031
	(!B * C * !Y)	0.00011	0.00012	0.00012
	(!B * C * !Y)	0.00002	0.00003	0.00003
	(!B * C * !Y)	-0.00001	-0.00001	-0.00000
	(!B * C * !Y)	-0.00031	-0.00031	-0.00031

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X1H7H	(A * C * !Y)	-0.00000	-0.00000	0.00000
	(A * C * !Y)	-0.00007	-0.00007	-0.00007
	(A * C * !Y)	0.00000	0.00001	0.00001
	(A * C * !Y)	0.00027	0.00027	0.00027
	(A * !C * !Y)	-0.00000	0.00000	0.00000
	(A * !C * !Y)	-0.00006	-0.00006	-0.00006
	(A * !C * !Y)	0.00000	0.00001	0.00001
	(A * !C * !Y)	0.00027	0.00027	0.00027
	(!A * C * !Y)	-0.00013	-0.00011	-0.00009
	(!A * C * !Y)	-0.00003	-0.00003	-0.00002
	(!A * C * !Y)	0.00000	0.00001	0.00001
	(!A * C * !Y)	0.00027	0.00027	0.00027

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X1H7H	(A * C * !Y)	0.00000	0.00000	0.00000
	(A * C * !Y)	0.00007	0.00007	0.00007
	(A * C * !Y)	-0.00001	-0.00001	-0.00000
	(A * C * !Y)	-0.00027	-0.00027	-0.00027
	(A * !C * !Y)	0.00000	0.00000	0.00000
	(A * !C * !Y)	0.00006	0.00006	0.00006
	(A * !C * !Y)	-0.00001	-0.00001	-0.00000
	(A * !C * !Y)	-0.00027	-0.00027	-0.00027
	(!A * C * !Y)	0.00012	0.00013	0.00013
	(!A * C * !Y)	0.00002	0.00003	0.00003
	(!A * C * !Y)	-0.00001	-0.00001	-0.00000
	(!A * C * !Y)	-0.00027	-0.00027	-0.00026

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X1H7H	(B * !Y)	-0.00000	0.00000	0.00000
	(B * !Y)	-0.00004	-0.00004	-0.00004
	(B * !Y)	0.00000	0.00001	0.00001
	(B * !Y)	0.00037	0.00038	0.00038
	(A * !B * !Y)	-0.00000	0.00000	0.00000
	(A * !B * !Y)	-0.00004	-0.00004	-0.00004
	(A * !B * !Y)	0.00001	0.00001	0.00001
	(A * !B * !Y)	0.00038	0.00038	0.00038

Passive power(pJ) for C falling (conditional):

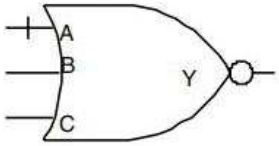
Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X1H7H	(B * !Y)	-0.00000	-0.00000	0.00000
	(B * !Y)	0.00004	0.00004	0.00004
	(B * !Y)	-0.00001	-0.00001	-0.00000
	(B * !Y)	-0.00038	-0.00038	-0.00037
	(A * !B * !Y)	-0.00000	0.00000	0.00000
	(A * !B * !Y)	0.00004	0.00004	0.00004
	(A * !B * !Y)	-0.00001	-0.00001	-0.00000
	(A * !B * !Y)	-0.00038	-0.00037	-0.00036

NOR3X1P4H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NOR3 cell provides a logical NOR of three inputs (A, B, C). The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	0	0	1
0	x	1	0
x	1	x	0
1	x	x	0

Footprint

Cell Name	Area
NOR3X1P4H7H	1.40000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
NOR3X1P4H7H	0.00095	0.00100	0.00112	0.01538

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR3X1P4H7H	0.00000	0.01314	0.04533

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR3X1P4H7H	A->Y (FR)	0.06736	0.23690	0.71321
	B->Y (FR)	0.06490	0.23752	0.73702
	C->Y (FR)	0.05794	0.22454	0.71365

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR3X1P4H7H	A->Y (RF)	0.01923	0.10384	0.39218
	B->Y (RF)	0.01884	0.10120	0.38946
	C->Y (RF)	0.01769	0.09779	0.38611

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR3X1P4H7H	A	0.00135	0.00138	0.00141
	A	-0.00017	-0.00017	-0.00017
	A	0.00011	0.00011	0.00011
	A	-0.00016	-0.00014	-0.00011
	B	0.00115	0.00118	0.00122
	B	-0.00012	-0.00011	-0.00011
	B	0.00011	0.00011	0.00011
	B	-0.00011	-0.00008	-0.00005
	C	0.00091	0.00098	0.00103
	C	-0.00004	-0.00003	-0.00003
	C	0.00011	0.00011	0.00011
	C	-0.00015	-0.00011	-0.00006

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR3X1P4H7H	A	-0.00014	-0.00011	-0.00009
	A	0.00017	0.00017	0.00017
	A	-0.00011	-0.00011	-0.00011
	A	0.00127	0.00130	0.00133
	B	-0.00014	-0.00011	-0.00009
	B	0.00011	0.00011	0.00012
	B	-0.00011	-0.00011	-0.00011
	B	0.00108	0.00110	0.00113
	C	-0.00016	-0.00011	-0.00007
	C	0.00003	0.00004	0.00004
	C	-0.00011	-0.00011	-0.00011
	C	0.00094	0.00098	0.00101

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X1P4H7H	(B * C * !Y)	-0.00014	-0.00013	-0.00011
	(B * C * !Y)	-0.00003	-0.00003	-0.00003
	(B * C * !Y)	0.00001	0.00001	0.00001
	(B * C * !Y)	0.00032	0.00032	0.00033
	(B * !C * !Y)	-0.00014	-0.00012	-0.00011
	(B * !C * !Y)	-0.00003	-0.00003	-0.00003
	(B * !C * !Y)	0.00001	0.00001	0.00001
	(B * !C * !Y)	0.00032	0.00032	0.00033
	(!B * C * !Y)	-0.00013	-0.00012	-0.00010
	(!B * C * !Y)	-0.00003	-0.00003	-0.00003
	(!B * C * !Y)	0.00001	0.00001	0.00001
	(!B * C * !Y)	0.00032	0.00032	0.00033

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X1P4H7H	(B * C * !Y)	0.00013	0.00014	0.00014
	(B * C * !Y)	0.00003	0.00003	0.00003
	(B * C * !Y)	-0.00001	-0.00001	-0.00000
	(B * C * !Y)	-0.00033	-0.00032	-0.00032
	(B * !C * !Y)	0.00013	0.00014	0.00014
	(B * !C * !Y)	0.00003	0.00003	0.00003
	(B * !C * !Y)	-0.00001	-0.00001	-0.00001
	(B * !C * !Y)	-0.00033	-0.00032	-0.00032
	(!B * C * !Y)	0.00013	0.00013	0.00013
	(!B * C * !Y)	0.00003	0.00003	0.00003
	(!B * C * !Y)	-0.00001	-0.00001	-0.00001
	(!B * C * !Y)	-0.00032	-0.00032	-0.00032

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X1P4H7H	(A * C * !Y)	-0.00000	-0.00000	0.00000
	(A * C * !Y)	-0.00008	-0.00008	-0.00008
	(A * C * !Y)	0.00001	0.00001	0.00001
	(A * C * !Y)	0.00028	0.00028	0.00028
	(A * !C * !Y)	-0.00000	0.00000	0.00000
	(A * !C * !Y)	-0.00007	-0.00007	-0.00007
	(A * !C * !Y)	0.00001	0.00001	0.00001
	(A * !C * !Y)	0.00028	0.00028	0.00028
	(!A * C * !Y)	-0.00014	-0.00013	-0.00010
	(!A * C * !Y)	-0.00003	-0.00003	-0.00003
	(!A * C * !Y)	0.00001	0.00001	0.00001
	(!A * C * !Y)	0.00028	0.00028	0.00029

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X1P4H7H	(A * C * !Y)	0.00000	0.00000	0.00000
	(A * C * !Y)	0.00008	0.00008	0.00008
	(A * C * !Y)	-0.00001	-0.00001	-0.00001
	(A * C * !Y)	-0.00028	-0.00028	-0.00028
	(A * !C * !Y)	-0.00000	-0.00000	0.00000
	(A * !C * !Y)	0.00007	0.00007	0.00007
	(A * !C * !Y)	-0.00001	-0.00001	-0.00000
	(A * !C * !Y)	-0.00028	-0.00028	-0.00028
	(!A * C * !Y)	0.00014	0.00014	0.00014
	(!A * C * !Y)	0.00003	0.00003	0.00003
	(!A * C * !Y)	-0.00001	-0.00001	-0.00000
	(!A * C * !Y)	-0.00028	-0.00028	-0.00028

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X1P4H7H	(B * !Y)	-0.00000	0.00000	0.00000
	(B * !Y)	-0.00005	-0.00005	-0.00005
	(B * !Y)	0.00000	0.00001	0.00001
	(B * !Y)	0.00040	0.00040	0.00040
	(A * !B * !Y)	0.00000	0.00000	0.00000
	(A * !B * !Y)	-0.00005	-0.00005	-0.00004
	(A * !B * !Y)	0.00001	0.00001	0.00001
	(A * !B * !Y)	0.00040	0.00040	0.00040

Passive power(pJ) for C falling (conditional):

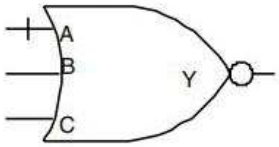
Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X1P4H7H	(B * !Y)	-0.00000	0.00000	0.00000
	(B * !Y)	0.00005	0.00005	0.00005
	(B * !Y)	-0.00001	-0.00001	-0.00000
	(B * !Y)	-0.00040	-0.00040	-0.00040
	(A * !B * !Y)	-0.00000	-0.00000	0.00000
	(A * !B * !Y)	0.00004	0.00005	0.00005
	(A * !B * !Y)	-0.00001	-0.00001	-0.00001
	(A * !B * !Y)	-0.00040	-0.00040	-0.00039

NOR3X2H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NOR3 cell provides a logical NOR of three inputs (A, B, C). The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	0	0	1
0	x	1	0
x	1	x	0
1	x	x	0

Footprint

Cell Name	Area
NOR3X2H7H	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
NOR3X2H7H	0.00144	0.00142	0.00155	0.01747

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR3X2H7H	0.00000	0.01187	0.01883

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR3X2H7H	A->Y (FR)	0.07752	0.24712	0.72163
	B->Y (FR)	0.07433	0.24710	0.74492
	C->Y (FR)	0.06660	0.23353	0.72189

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR3X2H7H	A->Y (RF)	0.01866	0.09459	0.35377
	B->Y (RF)	0.01829	0.09201	0.35101
	C->Y (RF)	0.01733	0.08888	0.34696

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR3X2H7H	A	0.00186	0.00191	0.00196
	A	-0.00021	-0.00021	-0.00020
	A	0.00014	0.00014	0.00015
	A	-0.00031	-0.00026	-0.00020
	B	0.00162	0.00166	0.00172
	B	-0.00013	-0.00013	-0.00013
	B	0.00014	0.00014	0.00015
	B	-0.00022	-0.00017	-0.00011
	C	0.00134	0.00140	0.00148
	C	-0.00004	-0.00004	-0.00004
	C	0.00014	0.00014	0.00014
	C	-0.00027	-0.00021	-0.00013

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR3X2H7H	A	-0.00018	-0.00014	-0.00011
	A	0.00020	0.00021	0.00021
	A	-0.00014	-0.00014	-0.00014
	A	0.00185	0.00190	0.00194
	B	-0.00020	-0.00015	-0.00012
	B	0.00013	0.00013	0.00013
	B	-0.00014	-0.00014	-0.00014
	B	0.00158	0.00162	0.00166
	C	-0.00020	-0.00014	-0.00009
	C	0.00004	0.00004	0.00005
	C	-0.00014	-0.00014	-0.00014
	C	0.00141	0.00146	0.00151

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X2H7H	(B * C * !Y)	-0.00016	-0.00015	-0.00013
	(B * C * !Y)	-0.00004	-0.00003	-0.00003
	(B * C * !Y)	0.00000	0.00001	0.00001
	(B * C * !Y)	0.00055	0.00056	0.00056
	(B * !C * !Y)	-0.00016	-0.00015	-0.00012
	(B * !C * !Y)	-0.00004	-0.00003	-0.00003
	(B * !C * !Y)	0.00001	0.00001	0.00001
	(B * !C * !Y)	0.00055	0.00055	0.00056
	(!B * C * !Y)	-0.00016	-0.00014	-0.00011
	(!B * C * !Y)	-0.00004	-0.00004	-0.00003
	(!B * C * !Y)	0.00001	0.00001	0.00001
	(!B * C * !Y)	0.00055	0.00055	0.00056

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X2H7H	(B * C * !Y)	0.00016	0.00016	0.00016
	(B * C * !Y)	0.00003	0.00003	0.00004
	(B * C * !Y)	-0.00001	-0.00001	-0.00000
	(B * C * !Y)	-0.00056	-0.00055	-0.00055
	(B * !C * !Y)	0.00016	0.00016	0.00016
	(B * !C * !Y)	0.00003	0.00003	0.00004
	(B * !C * !Y)	-0.00001	-0.00001	-0.00000
	(B * !C * !Y)	-0.00055	-0.00055	-0.00055
	(!B * C * !Y)	0.00016	0.00016	0.00016
	(!B * C * !Y)	0.00003	0.00004	0.00004
	(!B * C * !Y)	-0.00001	-0.00001	-0.00001
	(!B * C * !Y)	-0.00055	-0.00055	-0.00055

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X2H7H	(A * C * !Y)	-0.00000	-0.00000	0.00000
	(A * C * !Y)	-0.00011	-0.00011	-0.00011
	(A * C * !Y)	0.00001	0.00001	0.00001
	(A * C * !Y)	0.00047	0.00047	0.00047
	(A * !C * !Y)	-0.00000	0.00000	0.00000
	(A * !C * !Y)	-0.00009	-0.00009	-0.00009
	(A * !C * !Y)	0.00001	0.00001	0.00001
	(A * !C * !Y)	0.00047	0.00047	0.00047
	(!A * C * !Y)	-0.00018	-0.00017	-0.00014
	(!A * C * !Y)	-0.00004	-0.00004	-0.00003
	(!A * C * !Y)	0.00001	0.00001	0.00001
	(!A * C * !Y)	0.00047	0.00047	0.00048

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X2H7H	(A * C * !Y)	0.00000	0.00000	0.00000
	(A * C * !Y)	0.00011	0.00011	0.00011
	(A * C * !Y)	-0.00001	-0.00001	-0.00001
	(A * C * !Y)	-0.00047	-0.00047	-0.00047
	(A * !C * !Y)	0.00000	0.00000	0.00000
	(A * !C * !Y)	0.00009	0.00009	0.00009
	(A * !C * !Y)	-0.00001	-0.00001	-0.00001
	(A * !C * !Y)	-0.00047	-0.00047	-0.00047
	(!A * C * !Y)	0.00018	0.00018	0.00018
	(!A * C * !Y)	0.00003	0.00004	0.00004
	(!A * C * !Y)	-0.00001	-0.00001	-0.00001
	(!A * C * !Y)	-0.00047	-0.00047	-0.00046

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X2H7H	(B * !Y)	-0.00000	-0.00000	0.00000
	(B * !Y)	-0.00005	-0.00005	-0.00005
	(B * !Y)	0.00001	0.00001	0.00001
	(B * !Y)	0.00061	0.00062	0.00062
	(A * !B * !Y)	0.00000	0.00000	0.00000
	(A * !B * !Y)	-0.00005	-0.00005	-0.00005
	(A * !B * !Y)	0.00001	0.00001	0.00001
	(A * !B * !Y)	0.00061	0.00061	0.00062

Passive power(pJ) for C falling (conditional):

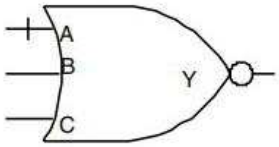
Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X2H7H	(B * !Y)	-0.00000	0.00000	0.00000
	(B * !Y)	0.00005	0.00006	0.00006
	(B * !Y)	-0.00001	-0.00001	-0.00000
	(B * !Y)	-0.00062	-0.00061	-0.00061
	(A * !B * !Y)	-0.00000	0.00000	0.00000
	(A * !B * !Y)	0.00005	0.00005	0.00006
	(A * !B * !Y)	-0.00001	-0.00001	-0.00001
	(A * !B * !Y)	-0.00062	-0.00061	-0.00061

NOR3X3H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NOR3 cell provides a logical NOR of three inputs (A, B, C). The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	0	0	1
0	x	1	0
x	1	x	0
1	x	x	0

Footprint

Cell Name	Area
NOR3X3H7H	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
NOR3X3H7H	0.00188	0.00189	0.00203	0.02820

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR3X3H7H	0.00000	0.02255	0.07148

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR3X3H7H	A->Y (FR)	0.06614	0.23830	0.71926
	B->Y (FR)	0.06250	0.23627	0.74043
	C->Y (FR)	0.05168	0.21898	0.71437

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR3X3H7H	A->Y (RF)	0.01816	0.10223	0.39005
	B->Y (RF)	0.01776	0.09907	0.38625
	C->Y (RF)	0.01627	0.09455	0.38183

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR3X3H7H	A	0.00280	0.00285	0.00292
	A	-0.00031	-0.00031	-0.00030
	A	0.00020	0.00021	0.00021
	A	-0.00022	-0.00017	-0.00011
	B	0.00231	0.00236	0.00243
	B	-0.00021	-0.00019	-0.00019
	B	0.00020	0.00021	0.00021
	B	-0.00021	-0.00015	-0.00008
	C	0.00173	0.00182	0.00192
	C	-0.00006	-0.00006	-0.00003
	C	0.00020	0.00020	0.00021
	C	-0.00034	-0.00026	-0.00016

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR3X3H7H	A	-0.00028	-0.00023	-0.00018
	A	0.00030	0.00031	0.00031
	A	-0.00021	-0.00021	-0.00020
	A	0.00248	0.00256	0.00263
	B	-0.00028	-0.00021	-0.00016
	B	0.00019	0.00019	0.00021
	B	-0.00021	-0.00021	-0.00020
	B	0.00212	0.00220	0.00226
	C	-0.00025	-0.00016	-0.00008
	C	0.00003	0.00006	0.00007
	C	-0.00021	-0.00020	-0.00020
	C	0.00183	0.00191	0.00198

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X3H7H	(B * C * !Y)	-0.00028	-0.00025	-0.00020
	(B * C * !Y)	-0.00006	-0.00006	-0.00006
	(B * C * !Y)	0.00001	0.00001	0.00001
	(B * C * !Y)	0.00059	0.00060	0.00060
	(B * !C * !Y)	-0.00028	-0.00025	-0.00020
	(B * !C * !Y)	-0.00006	-0.00006	-0.00006
	(B * !C * !Y)	0.00001	0.00001	0.00001
	(B * !C * !Y)	0.00059	0.00060	0.00060
	(!B * C * !Y)	-0.00027	-0.00023	-0.00018
	(!B * C * !Y)	-0.00006	-0.00006	-0.00005
	(!B * C * !Y)	0.00001	0.00001	0.00001
	(!B * C * !Y)	0.00059	0.00060	0.00060

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X3H7H	(B * C * !Y)	0.00028	0.00028	0.00028
	(B * C * !Y)	0.00006	0.00006	0.00006
	(B * C * !Y)	-0.00001	-0.00001	-0.00001
	(B * C * !Y)	-0.00059	-0.00059	-0.00059
	(B * !C * !Y)	0.00028	0.00028	0.00028
	(B * !C * !Y)	0.00006	0.00006	0.00006
	(B * !C * !Y)	-0.00001	-0.00001	-0.00001
	(B * !C * !Y)	-0.00059	-0.00059	-0.00059
	(!B * C * !Y)	0.00027	0.00027	0.00027
	(!B * C * !Y)	0.00005	0.00006	0.00006
	(!B * C * !Y)	-0.00001	-0.00001	-0.00001
	(!B * C * !Y)	-0.00059	-0.00059	-0.00059

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X3H7H	(A * C * !Y)	-0.00000	-0.00000	-0.00000
	(A * C * !Y)	-0.00015	-0.00015	-0.00015
	(A * C * !Y)	0.00001	0.00001	0.00001
	(A * C * !Y)	0.00058	0.00058	0.00058
	(A * !C * !Y)	-0.00000	0.00000	0.00000
	(A * !C * !Y)	-0.00012	-0.00012	-0.00012
	(A * !C * !Y)	0.00001	0.00001	0.00001
	(A * !C * !Y)	0.00058	0.00058	0.00058
	(!A * C * !Y)	-0.00035	-0.00032	-0.00026
	(!A * C * !Y)	-0.00006	-0.00006	-0.00005
	(!A * C * !Y)	0.00001	0.00001	0.00001
	(!A * C * !Y)	0.00053	0.00054	0.00056

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X3H7H	(A * C * !Y)	0.00000	0.00000	0.00000
	(A * C * !Y)	0.00015	0.00015	0.00015
	(A * C * !Y)	-0.00001	-0.00001	-0.00001
	(A * C * !Y)	-0.00058	-0.00058	-0.00058
	(A * !C * !Y)	0.00000	0.00000	0.00000
	(A * !C * !Y)	0.00013	0.00013	0.00013
	(A * !C * !Y)	-0.00001	-0.00001	-0.00001
	(A * !C * !Y)	-0.00058	-0.00058	-0.00057
	(!A * C * !Y)	0.00035	0.00035	0.00035
	(!A * C * !Y)	0.00005	0.00006	0.00006
	(!A * C * !Y)	-0.00001	-0.00001	-0.00001
	(!A * C * !Y)	-0.00053	-0.00053	-0.00053

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X3H7H	(B * !Y)	-0.00000	0.00000	0.00000
	(B * !Y)	-0.00008	-0.00008	-0.00008
	(B * !Y)	0.00001	0.00001	0.00001
	(B * !Y)	0.00077	0.00078	0.00078
	(A * !B * !Y)	-0.00000	0.00000	0.00000
	(A * !B * !Y)	-0.00008	-0.00008	-0.00008
	(A * !B * !Y)	0.00001	0.00001	0.00001
	(A * !B * !Y)	0.00078	0.00078	0.00078

Passive power(pJ) for C falling (conditional):

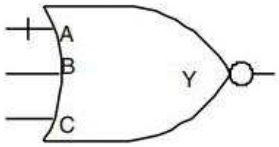
Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X3H7H	(B * !Y)	-0.00000	-0.00000	0.00000
	(B * !Y)	0.00008	0.00008	0.00009
	(B * !Y)	-0.00001	-0.00001	-0.00001
	(B * !Y)	-0.00078	-0.00077	-0.00077
	(A * !B * !Y)	-0.00000	0.00000	0.00000
	(A * !B * !Y)	0.00008	0.00008	0.00008
	(A * !B * !Y)	-0.00001	-0.00001	-0.00001
	(A * !B * !Y)	-0.00078	-0.00077	-0.00077

NOR3X4H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NOR3 cell provides a logical NOR of three inputs (A, B, C). The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	0	0	1
0	x	1	0
x	1	x	0
1	x	x	0

Footprint

Cell Name	Area
NOR3X4H7H	5.32000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
NOR3X4H7H	0.00304	0.00315	0.00332	0.03945

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR3X4H7H	0.00000	0.02865	0.03891

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR3X4H7H	A->Y (FR)	0.07206	0.24294	0.72003
	B->Y (FR)	0.06877	0.24124	0.74130
	C->Y (FR)	0.05463	0.22019	0.71012

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR3X4H7H	A->Y (RF)	0.01852	0.09974	0.37595
	B->Y (RF)	0.01827	0.09675	0.37279
	C->Y (RF)	0.01640	0.09143	0.36773

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR3X4H7H	A	0.00443	0.00453	0.00465
	A	-0.00042	-0.00042	-0.00041
	A	0.00028	0.00029	0.00029
	A	-0.00042	-0.00032	-0.00020
	B	0.00377	0.00387	0.00399
	B	-0.00027	-0.00026	-0.00025
	B	0.00028	0.00029	0.00029
	B	-0.00040	-0.00030	-0.00018
	C	0.00278	0.00294	0.00310
	C	-0.00008	-0.00008	-0.00006
	C	0.00028	0.00028	0.00030
	C	-0.00062	-0.00049	-0.00034

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR3X4H7H	A	-0.00043	-0.00033	-0.00026
	A	0.00041	0.00042	0.00042
	A	-0.00029	-0.00028	-0.00028
	A	0.00402	0.00415	0.00426
	B	-0.00049	-0.00037	-0.00029
	B	0.00025	0.00026	0.00027
	B	-0.00029	-0.00028	-0.00028
	B	0.00352	0.00362	0.00372
	C	-0.00046	-0.00032	-0.00020
	C	0.00006	0.00008	0.00010
	C	-0.00029	-0.00028	-0.00028
	C	0.00298	0.00310	0.00321

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X4H7H	(B * C * !Y)	-0.00042	-0.00037	-0.00030
	(B * C * !Y)	-0.00009	-0.00009	-0.00009
	(B * C * !Y)	0.00001	0.00001	0.00002
	(B * C * !Y)	0.00102	0.00102	0.00103
	(B * !C * !Y)	-0.00043	-0.00037	-0.00029
	(B * !C * !Y)	-0.00009	-0.00009	-0.00009
	(B * !C * !Y)	0.00001	0.00001	0.00002
	(B * !C * !Y)	0.00102	0.00102	0.00103
	(!B * C * !Y)	-0.00039	-0.00034	-0.00026
	(!B * C * !Y)	-0.00010	-0.00009	-0.00007
	(!B * C * !Y)	0.00001	0.00001	0.00002
	(!B * C * !Y)	0.00103	0.00103	0.00105

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X4H7H	(B * C * !Y)	0.00041	0.00042	0.00042
	(B * C * !Y)	0.00009	0.00009	0.00009
	(B * C * !Y)	-0.00001	-0.00001	-0.00001
	(B * C * !Y)	-0.00102	-0.00102	-0.00101
	(B * !C * !Y)	0.00042	0.00042	0.00043
	(B * !C * !Y)	0.00009	0.00009	0.00009
	(B * !C * !Y)	-0.00001	-0.00001	-0.00001
	(B * !C * !Y)	-0.00102	-0.00101	-0.00100
	(!B * C * !Y)	0.00039	0.00039	0.00040
	(!B * C * !Y)	0.00007	0.00009	0.00010
	(!B * C * !Y)	-0.00001	-0.00001	-0.00001
	(!B * C * !Y)	-0.00103	-0.00103	-0.00102

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X4H7H	(A * C * !Y)	-0.00000	-0.00000	0.00000
	(A * C * !Y)	-0.00022	-0.00022	-0.00022
	(A * C * !Y)	0.00001	0.00001	0.00002
	(A * C * !Y)	0.00105	0.00106	0.00106
	(A * !C * !Y)	-0.00000	0.00000	0.00000
	(A * !C * !Y)	-0.00019	-0.00018	-0.00018
	(A * !C * !Y)	0.00001	0.00001	0.00001
	(A * !C * !Y)	0.00104	0.00105	0.00106
	(!A * C * !Y)	-0.00055	-0.00049	-0.00041
	(!A * C * !Y)	-0.00008	-0.00008	-0.00007
	(!A * C * !Y)	0.00001	0.00001	0.00002
	(!A * C * !Y)	0.00099	0.00100	0.00104

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X4H7H	(A * C * !Y)	0.00000	0.00000	0.00000
	(A * C * !Y)	0.00022	0.00022	0.00022
	(A * C * !Y)	-0.00001	-0.00001	-0.00001
	(A * C * !Y)	-0.00105	-0.00105	-0.00103
	(A * !C * !Y)	0.00000	0.00000	0.00000
	(A * !C * !Y)	0.00019	0.00019	0.00019
	(A * !C * !Y)	-0.00001	-0.00001	-0.00001
	(A * !C * !Y)	-0.00106	-0.00105	-0.00104
	(!A * C * !Y)	0.00055	0.00055	0.00055
	(!A * C * !Y)	0.00007	0.00008	0.00008
	(!A * C * !Y)	-0.00001	-0.00001	-0.00001
	(!A * C * !Y)	-0.00099	-0.00098	-0.00097

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X4H7H	(B * !Y)	-0.00000	-0.00000	0.00000
	(B * !Y)	-0.00012	-0.00012	-0.00012
	(B * !Y)	0.00001	0.00002	0.00002
	(B * !Y)	0.00133	0.00133	0.00133
	(A * !B * !Y)	0.00000	0.00000	0.00000
	(A * !B * !Y)	-0.00012	-0.00011	-0.00011
	(A * !B * !Y)	0.00001	0.00002	0.00002
	(A * !B * !Y)	0.00132	0.00133	0.00133

Passive power(pJ) for C falling (conditional):

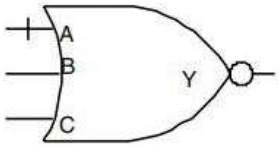
Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X4H7H	(B * !Y)	0.00000	0.00000	0.00000
	(B * !Y)	0.00012	0.00012	0.00012
	(B * !Y)	-0.00001	-0.00001	-0.00001
	(B * !Y)	-0.00133	-0.00132	-0.00131
	(A * !B * !Y)	-0.00000	0.00000	0.00000
	(A * !B * !Y)	0.00012	0.00012	0.00012
	(A * !B * !Y)	-0.00002	-0.00001	-0.00001
	(A * !B * !Y)	-0.00132	-0.00131	-0.00130

NOR3X6H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NOR3 cell provides a logical NOR of three inputs (A, B, C). The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	0	0	1
0	x	1	0
x	1	x	0
1	x	x	0

Footprint

Cell Name	Area
NOR3X6H7H	4.20000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
NOR3X6H7H	0.00324	0.00327	0.00343	0.05291

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR3X6H7H	0.00000	0.05387	0.22137

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR3X6H7H	A->Y (FR)	0.05883	0.23295	0.72170
	B->Y (FR)	0.05501	0.23081	0.74338
	C->Y (FR)	0.04361	0.21278	0.71648

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR3X6H7H	A->Y (RF)	0.01628	0.10001	0.39065
	B->Y (RF)	0.01593	0.09657	0.38689
	C->Y (RF)	0.01429	0.09162	0.38302

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR3X6H7H	A	0.00491	0.00501	0.00512
	A	-0.00062	-0.00061	-0.00060
	A	0.00040	0.00041	0.00041
	A	-0.00051	-0.00041	-0.00030
	B	0.00407	0.00415	0.00427
	B	-0.00043	-0.00038	-0.00033
	B	0.00040	0.00040	0.00041
	B	-0.00044	-0.00034	-0.00023
	C	0.00297	0.00313	0.00331
	C	-0.00014	-0.00013	-0.00012
	C	0.00040	0.00040	0.00041
	C	-0.00060	-0.00046	-0.00030

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR3X6H7H	A	-0.00053	-0.00043	-0.00035
	A	0.00060	0.00061	0.00062
	A	-0.00041	-0.00040	-0.00040
	A	0.00440	0.00456	0.00468
	B	-0.00059	-0.00046	-0.00037
	B	0.00033	0.00038	0.00043
	B	-0.00041	-0.00040	-0.00040
	B	0.00373	0.00383	0.00393
	C	-0.00057	-0.00040	-0.00027
	C	0.00012	0.00013	0.00014
	C	-0.00041	-0.00040	-0.00039
	C	0.00304	0.00318	0.00331

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X6H7H	(B * C * !Y)	-0.00053	-0.00048	-0.00040
	(B * C * !Y)	-0.00012	-0.00012	-0.00011
	(B * C * !Y)	0.00002	0.00002	0.00002
	(B * C * !Y)	0.00097	0.00097	0.00098
	(B * !C * !Y)	-0.00054	-0.00048	-0.00039
	(B * !C * !Y)	-0.00012	-0.00011	-0.00011
	(B * !C * !Y)	0.00002	0.00002	0.00002
	(B * !C * !Y)	0.00097	0.00097	0.00098
	(!B * C * !Y)	-0.00051	-0.00044	-0.00035
	(!B * C * !Y)	-0.00013	-0.00012	-0.00011
	(!B * C * !Y)	0.00002	0.00002	0.00002
	(!B * C * !Y)	0.00097	0.00098	0.00098

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X6H7H	(B * C * !Y)	0.00052	0.00053	0.00053
	(B * C * !Y)	0.00012	0.00012	0.00012
	(B * C * !Y)	-0.00002	-0.00002	-0.00001
	(B * C * !Y)	-0.00098	-0.00097	-0.00097
	(B * !C * !Y)	0.00053	0.00053	0.00054
	(B * !C * !Y)	0.00011	0.00011	0.00012
	(B * !C * !Y)	-0.00002	-0.00002	-0.00002
	(B * !C * !Y)	-0.00097	-0.00097	-0.00097
	(!B * C * !Y)	0.00050	0.00051	0.00051
	(!B * C * !Y)	0.00012	0.00012	0.00013
	(!B * C * !Y)	-0.00002	-0.00002	-0.00002
	(!B * C * !Y)	-0.00098	-0.00097	-0.00096

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X6H7H	(A * C * !Y)	-0.00000	-0.00000	0.00000
	(A * C * !Y)	-0.00032	-0.00031	-0.00031
	(A * C * !Y)	0.00002	0.00002	0.00002
	(A * C * !Y)	0.00092	0.00093	0.00093
	(A * !C * !Y)	-0.00000	0.00000	0.00000
	(A * !C * !Y)	-0.00026	-0.00026	-0.00025
	(A * !C * !Y)	0.00002	0.00002	0.00002
	(A * !C * !Y)	0.00092	0.00092	0.00093
	(!A * C * !Y)	-0.00064	-0.00057	-0.00047
	(!A * C * !Y)	-0.00011	-0.00011	-0.00010
	(!A * C * !Y)	0.00002	0.00002	0.00002
	(!A * C * !Y)	0.00089	0.00090	0.00094

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X6H7H	(A * C * !Y)	0.00000	0.00000	0.00000
	(A * C * !Y)	0.00031	0.00031	0.00032
	(A * C * !Y)	-0.00002	-0.00002	-0.00002
	(A * C * !Y)	-0.00093	-0.00092	-0.00092
	(A * !C * !Y)	-0.00000	-0.00000	0.00000
	(A * !C * !Y)	0.00026	0.00027	0.00027
	(A * !C * !Y)	-0.00002	-0.00002	-0.00002
	(A * !C * !Y)	-0.00092	-0.00092	-0.00091
	(!A * C * !Y)	0.00063	0.00063	0.00064
	(!A * C * !Y)	0.00011	0.00011	0.00011
	(!A * C * !Y)	-0.00002	-0.00002	-0.00002
	(!A * C * !Y)	-0.00089	-0.00089	-0.00088

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X6H7H	(B * !Y)	-0.00000	0.00000	0.00000
	(B * !Y)	-0.00016	-0.00016	-0.00016
	(B * !Y)	0.00002	0.00002	0.00002
	(B * !Y)	0.00124	0.00125	0.00126
	(A * !B * !Y)	-0.00000	0.00000	0.00000
	(A * !B * !Y)	-0.00016	-0.00016	-0.00016
	(A * !B * !Y)	0.00002	0.00002	0.00002
	(A * !B * !Y)	0.00125	0.00125	0.00125

Passive power(pJ) for C falling (conditional):

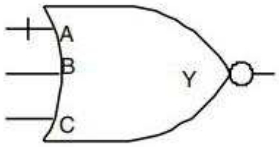
Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X6H7H	(B * !Y)	0.00000	0.00000	0.00000
	(B * !Y)	0.00017	0.00017	0.00017
	(B * !Y)	-0.00002	-0.00002	-0.00002
	(B * !Y)	-0.00126	-0.00125	-0.00124
	(A * !B * !Y)	0.00000	0.00000	0.00000
	(A * !B * !Y)	0.00016	0.00016	0.00017
	(A * !B * !Y)	-0.00002	-0.00002	-0.00001
	(A * !B * !Y)	-0.00125	-0.00124	-0.00121

NOR3X8H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NOR3 cell provides a logical NOR of three inputs (A, B, C). The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	0	0	1
0	x	1	0
x	1	x	0
1	x	x	0

Footprint

Cell Name	Area
NOR3X8H7H	5.60000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
NOR3X8H7H	0.00433	0.00433	0.00453	0.07042

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR3X8H7H	0.00000	0.07179	0.29516

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR3X8H7H	A->Y (FR)	0.05846	0.23285	0.72218
	B->Y (FR)	0.05450	0.23049	0.74373
	C->Y (FR)	0.04265	0.21198	0.71654

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR3X8H7H	A->Y (RF)	0.01611	0.09985	0.39115
	B->Y (RF)	0.01578	0.09640	0.38732
	C->Y (RF)	0.01412	0.09127	0.38291

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR3X8H7H	A	0.00664	0.00677	0.00692
	A	-0.00083	-0.00082	-0.00081
	A	0.00053	0.00054	0.00055
	A	-0.00063	-0.00049	-0.00034
	B	0.00546	0.00559	0.00575
	B	-0.00052	-0.00051	-0.00047
	B	0.00054	0.00054	0.00055
	B	-0.00058	-0.00045	-0.00029
	C	0.00397	0.00419	0.00443
	C	-0.00018	-0.00017	-0.00014
	C	0.00053	0.00054	0.00054
	C	-0.00081	-0.00063	-0.00041

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR3X8H7H	A	-0.00072	-0.00058	-0.00046
	A	0.00081	0.00082	0.00083
	A	-0.00054	-0.00054	-0.00053
	A	0.00595	0.00610	0.00626
	B	-0.00078	-0.00060	-0.00048
	B	0.00047	0.00051	0.00052
	B	-0.00054	-0.00054	-0.00053
	B	0.00502	0.00516	0.00531
	C	-0.00074	-0.00051	-0.00033
	C	0.00014	0.00018	0.00023
	C	-0.00054	-0.00054	-0.00052
	C	0.00410	0.00429	0.00445

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X8H7H	(B * C * !Y)	-0.00071	-0.00064	-0.00052
	(B * C * !Y)	-0.00016	-0.00015	-0.00015
	(B * C * !Y)	0.00003	0.00003	0.00003
	(B * C * !Y)	0.00130	0.00130	0.00131
	(B * !C * !Y)	-0.00071	-0.00064	-0.00052
	(B * !C * !Y)	-0.00015	-0.00015	-0.00015
	(B * !C * !Y)	0.00003	0.00003	0.00003
	(B * !C * !Y)	0.00130	0.00130	0.00131
	(!B * C * !Y)	-0.00068	-0.00059	-0.00047
	(!B * C * !Y)	-0.00016	-0.00015	-0.00014
	(!B * C * !Y)	0.00003	0.00003	0.00003
	(!B * C * !Y)	0.00131	0.00131	0.00132

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X8H7H	(B * C * !Y)	0.00070	0.00071	0.00071
	(B * C * !Y)	0.00015	0.00015	0.00016
	(B * C * !Y)	-0.00003	-0.00003	-0.00002
	(B * C * !Y)	-0.00131	-0.00130	-0.00129
	(B * !C * !Y)	0.00070	0.00071	0.00072
	(B * !C * !Y)	0.00015	0.00015	0.00015
	(B * !C * !Y)	-0.00003	-0.00003	-0.00003
	(B * !C * !Y)	-0.00130	-0.00130	-0.00129
	(!B * C * !Y)	0.00067	0.00068	0.00068
	(!B * C * !Y)	0.00014	0.00015	0.00016
	(!B * C * !Y)	-0.00003	-0.00003	-0.00003
	(!B * C * !Y)	-0.00131	-0.00130	-0.00129

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X8H7H	(A * C * !Y)	-0.00000	-0.00000	0.00000
	(A * C * !Y)	-0.00042	-0.00041	-0.00041
	(A * C * !Y)	0.00003	0.00003	0.00003
	(A * C * !Y)	0.00127	0.00128	0.00128
	(A * !C * !Y)	-0.00000	0.00000	0.00000
	(A * !C * !Y)	-0.00034	-0.00034	-0.00033
	(A * !C * !Y)	0.00003	0.00003	0.00003
	(A * !C * !Y)	0.00127	0.00128	0.00128
	(!A * C * !Y)	-0.00086	-0.00077	-0.00064
	(!A * C * !Y)	-0.00015	-0.00014	-0.00014
	(!A * C * !Y)	0.00003	0.00003	0.00003
	(!A * C * !Y)	0.00121	0.00123	0.00127

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X8H7H	(A * C * !Y)	0.00000	0.00000	0.00000
	(A * C * !Y)	0.00041	0.00041	0.00042
	(A * C * !Y)	-0.00003	-0.00003	-0.00003
	(A * C * !Y)	-0.00127	-0.00127	-0.00126
	(A * !C * !Y)	-0.00000	-0.00000	0.00000
	(A * !C * !Y)	0.00034	0.00035	0.00035
	(A * !C * !Y)	-0.00003	-0.00003	-0.00003
	(A * !C * !Y)	-0.00127	-0.00127	-0.00126
	(!A * C * !Y)	0.00085	0.00085	0.00086
	(!A * C * !Y)	0.00014	0.00014	0.00015
	(!A * C * !Y)	-0.00003	-0.00003	-0.00003
	(!A * C * !Y)	-0.00121	-0.00121	-0.00120

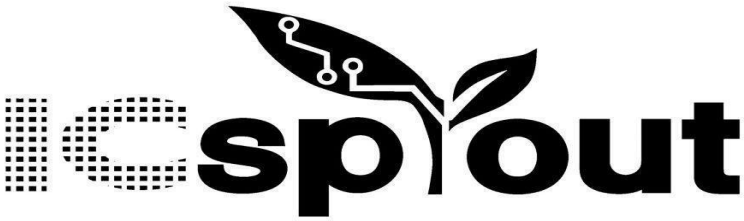
Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X8H7H	(B * !Y)	-0.00000	0.00000	0.00000
	(B * !Y)	-0.00021	-0.00021	-0.00021
	(B * !Y)	0.00003	0.00003	0.00003
	(B * !Y)	0.00168	0.00170	0.00171
	(A * !B * !Y)	-0.00000	-0.00000	0.00000
	(A * !B * !Y)	-0.00021	-0.00021	-0.00021
	(A * !B * !Y)	0.00003	0.00003	0.00003
	(A * !B * !Y)	0.00169	0.00170	0.00170

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X8H7H	(B * !Y)	0.00000	0.00000	0.00000
	(B * !Y)	0.00022	0.00022	0.00022
	(B * !Y)	-0.00003	-0.00003	-0.00003
	(B * !Y)	-0.00170	-0.00169	-0.00168
	(A * !B * !Y)	-0.00000	0.00000	0.00000
	(A * !B * !Y)	0.00022	0.00022	0.00022
	(A * !B * !Y)	-0.00003	-0.00003	-0.00003
	(A * !B * !Y)	-0.00169	-0.00168	-0.00168

NOR4BBX0P5H7H



tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

NOR4BB, In: AN, BN, C, D, Out: Y

Truth Table

INPUT				OUTPUT
A0N	A1N	A2	A3	Y
0	x	x	x	0
1	0	x	x	0
1	1	0	0	1
1	1	x	1	0
1	1	1	x	0

Footprint

Cell Name	Area
NOR4BBX0P5H7H	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0N	A1N	A2	A3	Y
NOR4BBX0P5H7H	0.00098	0.00089	0.00086	0.00089	0.00693

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR4BBX0P5H7H	0.00000	0.01899	0.02754

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4BBX0P5H7H	A0N->Y (RR)	0.15606	0.29865	0.64336
	A1N->Y (RR)	0.16285	0.30826	0.66088
	A2->Y (FR)	0.12624	0.28369	0.72981
	A3->Y (FR)	0.11205	0.26385	0.69991

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4BBX0P5H7H	A0N->Y (FF)	0.05946	0.13060	0.28453
	A1N->Y (FF)	0.06653	0.14108	0.30573
	A2->Y (RF)	0.02457	0.09606	0.32588
	A3->Y (RF)	0.02290	0.09265	0.32112

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4BBX0P5H7H	A0N	0.00121	0.00125	0.00130
	A0N	-0.00012	-0.00012	-0.00012
	A0N	0.00007	0.00008	0.00008
	A0N	0.00125	0.00129	0.00134
	A1N	0.00114	0.00119	0.00125
	A1N	-0.00009	-0.00008	-0.00008
	A1N	0.00007	0.00007	0.00008
	A1N	0.00123	0.00128	0.00134
	A2	0.00107	0.00110	0.00113
	A2	-0.00007	-0.00006	-0.00002
	A2	0.00009	0.00010	0.00010
	A2	0.00008	0.00011	0.00014
	A3	0.00092	0.00095	0.00099
	A3	-0.00002	-0.00002	0.00000
	A3	0.00009	0.00010	0.00010
	A3	0.00008	0.00011	0.00015

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4BBX0P5H7H	A0N	0.00100	0.00103	0.00107
	A0N	0.00012	0.00012	0.00012
	A0N	-0.00008	-0.00007	-0.00007
	A0N	0.00089	0.00092	0.00097
	A1N	0.00121	0.00125	0.00129
	A1N	0.00008	0.00008	0.00009
	A1N	-0.00008	-0.00007	-0.00007
	A1N	0.00106	0.00111	0.00116
	A2	-0.00010	-0.00007	-0.00005
	A2	0.00002	0.00006	0.00008
	A2	-0.00010	-0.00010	-0.00009
	A2	0.00087	0.00089	0.00091
	A3	-0.00010	-0.00006	-0.00004
	A3	0.00000	0.00002	0.00010
	A3	-0.00010	-0.00010	-0.00009
	A3	0.00075	0.00078	0.00081

Passive power(pJ) for A0N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX0P5H7H	(A1N * A2 * A3 * !Y)	-0.00005	-0.00003	0.00001
	(A1N * A2 * A3 * !Y)	0.00004	0.00004	0.00005
	(A1N * A2 * A3 * !Y)	-0.00002	-0.00003	-0.00002
	(A1N * A2 * A3 * !Y)	0.00072	0.00075	0.00078
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	-0.00005	-0.00003	0.00001
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	0.00004	0.00004	0.00005
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	-0.00003	-0.00003	-0.00002
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	0.00072	0.00075	0.00078
	(!A1N * A3 * !Y)	-0.00002	0.00001	0.00004
	(!A1N * A3 * !Y)	0.00004	0.00004	0.00004
	(!A1N * A3 * !Y)	-0.00003	-0.00003	-0.00002
	(!A1N * A3 * !Y)	0.00075	0.00078	0.00081
	(!A1N * A2 * !A3 * !Y)	-0.00002	0.00001	0.00004
	(!A1N * A2 * !A3 * !Y)	0.00004	0.00004	0.00004
	(!A1N * A2 * !A3 * !Y)	-0.00002	-0.00003	-0.00002
	(!A1N * A2 * !A3 * !Y)	0.00075	0.00078	0.00081

Passive power(pJ) for A0N falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX0P5H7H	(A1N * A2 * A3 * !Y)	0.00089	0.00092	0.00096
	(A1N * A2 * A3 * !Y)	-0.00005	-0.00004	-0.00004
	(A1N * A2 * A3 * !Y)	0.00002	0.00003	0.00003
	(A1N * A2 * A3 * !Y)	0.00011	0.00014	0.00017
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	0.00089	0.00092	0.00095
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	-0.00005	-0.00004	-0.00004
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	0.00002	0.00003	0.00003
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	0.00011	0.00014	0.00017
	(!A1N * A3 * !Y)	0.00085	0.00088	0.00091
	(!A1N * A3 * !Y)	-0.00004	-0.00004	-0.00004
	(!A1N * A3 * !Y)	0.00002	0.00003	0.00003
	(!A1N * A3 * !Y)	0.00008	0.00010	0.00013
	(!A1N * A2 * !A3 * !Y)	0.00085	0.00088	0.00091
	(!A1N * A2 * !A3 * !Y)	-0.00004	-0.00004	-0.00004
	(!A1N * A2 * !A3 * !Y)	0.00002	0.00003	0.00002
	(!A1N * A2 * !A3 * !Y)	0.00008	0.00010	0.00013

Passive power(pJ) for A1N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX0P5H7H	(A2 * A3 * !Y)	-0.00003	-0.00001	0.00002
	(A2 * A3 * !Y)	0.00004	0.00004	0.00005
	(A2 * A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A2 * A3 * !Y)	0.00076	0.00078	0.00081
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	-0.00002	-0.00000	0.00002
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00004	0.00004	0.00004
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	-0.00002	-0.00002	-0.00002
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00076	0.00078	0.00081

Passive power(pJ) for A1N falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX0P5H7H	(A2 * A3 * !Y)	0.00103	0.00105	0.00109
	(A2 * A3 * !Y)	-0.00005	-0.00004	-0.00004
	(A2 * A3 * !Y)	0.00002	0.00003	0.00003
	(A2 * A3 * !Y)	0.00024	0.00026	0.00029
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00103	0.00105	0.00109
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	-0.00004	-0.00004	-0.00004
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00002	0.00003	0.00003
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00024	0.00027	0.00029

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX0P5H7H	(A0N * A1N * A3 * !Y)	-0.00009	-0.00008	-0.00007
	(A0N * A1N * A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A0N * A1N * A3 * !Y)	0.00000	0.00001	0.00001
	(A0N * A1N * A3 * !Y)	0.00032	0.00033	0.00033
	(!A1N * A3 * !Y)	-0.00005	-0.00005	-0.00005
	(!A1N * A3 * !Y)	-0.00006	-0.00005	-0.00005
	(!A1N * A3 * !Y)	0.00000	0.00000	0.00000
	(!A1N * A3 * !Y)	0.00028	0.00029	0.00029
	(!A1N * !A3 * !Y)	-0.00005	-0.00005	-0.00005
	(!A1N * !A3 * !Y)	-0.00005	-0.00005	-0.00004
	(!A1N * !A3 * !Y)	0.00000	0.00000	0.00000
	(!A1N * !A3 * !Y)	0.00028	0.00029	0.00029
	(!A0N * A1N * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0N * A1N * A3 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0N * A1N * A3 * !Y)	0.00000	0.00000	0.00000
	(!A0N * A1N * A3 * !Y)	0.00034	0.00034	0.00035
	(!A0N * A1N * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0N * A1N * !A3 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0N * A1N * !A3 * !Y)	0.00000	0.00000	0.00000
	(!A0N * A1N * !A3 * !Y)	0.00033	0.00033	0.00033

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX0P5H7H	(A0N * A1N * A3 * !Y)	0.00009	0.00009	0.00009
	(A0N * A1N * A3 * !Y)	0.00002	0.00002	0.00002
	(A0N * A1N * A3 * !Y)	-0.00000	-0.00000	0.00000
	(A0N * A1N * A3 * !Y)	-0.00033	-0.00032	-0.00032
	(!A1N * A3 * !Y)	0.00005	0.00005	0.00006
	(!A1N * A3 * !Y)	0.00005	0.00005	0.00006
	(!A1N * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1N * A3 * !Y)	-0.00029	-0.00029	-0.00028
	(!A1N * !A3 * !Y)	0.00005	0.00005	0.00005
	(!A1N * !A3 * !Y)	0.00005	0.00005	0.00005
	(!A1N * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1N * !A3 * !Y)	-0.00029	-0.00029	-0.00028
	(!A0N * A1N * A3 * !Y)	0.00001	0.00001	0.00001
	(!A0N * A1N * A3 * !Y)	0.00005	0.00005	0.00005
	(!A0N * A1N * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0N * A1N * A3 * !Y)	-0.00034	-0.00034	-0.00034
	(!A0N * A1N * !A3 * !Y)	0.00001	0.00001	0.00001
	(!A0N * A1N * !A3 * !Y)	0.00004	0.00005	0.00005
	(!A0N * A1N * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0N * A1N * !A3 * !Y)	-0.00033	-0.00033	-0.00033

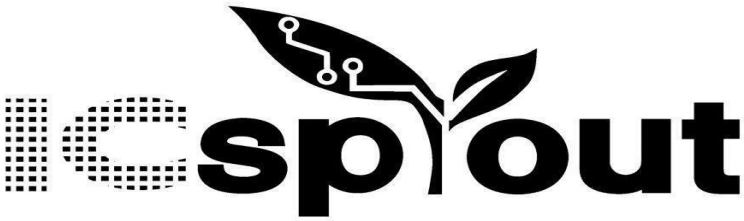
Passive power(pJ) for A3 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX0P5H7H	(A2 * !Y)	-0.00000	-0.00000	0.00000
	(A2 * !Y)	-0.00003	-0.00003	-0.00003
	(A2 * !Y)	0.00000	0.00000	0.00000
	(A2 * !Y)	0.00035	0.00036	0.00036
	(!A1N * !A2 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1N * !A2 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1N * !A2 * !Y)	0.00000	0.00000	0.00000
	(!A1N * !A2 * !Y)	0.00032	0.00032	0.00033
	(!A0N * A1N * !A2 * !Y)	-0.00000	-0.00000	0.00000
	(!A0N * A1N * !A2 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0N * A1N * !A2 * !Y)	0.00000	0.00000	0.00000
	(!A0N * A1N * !A2 * !Y)	0.00035	0.00036	0.00036

Passive power(pJ) for A3 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX0P5H7H	(A2 * !Y)	0.00000	0.00000	0.00000
	(A2 * !Y)	0.00003	0.00003	0.00003
	(A2 * !Y)	-0.00000	-0.00000	0.00000
	(A2 * !Y)	-0.00036	-0.00036	-0.00035
	(!A1N * !A2 * !Y)	0.00004	0.00004	0.00004
	(!A1N * !A2 * !Y)	0.00003	0.00003	0.00003
	(!A1N * !A2 * !Y)	-0.00000	-0.00000	0.00000
	(!A1N * !A2 * !Y)	-0.00033	-0.00032	-0.00032
	(!A0N * A1N * !A2 * !Y)	0.00000	0.00000	0.00000
	(!A0N * A1N * !A2 * !Y)	0.00003	0.00003	0.00004
	(!A0N * A1N * !A2 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0N * A1N * !A2 * !Y)	-0.00036	-0.00036	-0.00035

NOR4BBX0P7H7H



tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

NOR4BB, In: AN, BN, C, D, Out: Y

Truth Table

INPUT				OUTPUT
A0N	A1N	A2	A3	Y
0	x	x	x	0
1	0	x	x	0
1	1	0	0	1
1	1	x	1	0
1	1	1	x	0

Footprint

Cell Name	Area
NOR4BBX0P7H7H	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0N	A1N	A2	A3	Y
NOR4BBX0P7H7H	0.00100	0.00089	0.00090	0.00094	0.00800

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR4BBX0P7H7H	0.00000	0.01994	0.03574

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4BBX0P7H7H	A0N->Y (RR)	0.14779	0.29433	0.64876
	A1N->Y (RR)	0.15242	0.30110	0.66189
	A2->Y (FR)	0.11621	0.27700	0.73452
	A3->Y (FR)	0.10226	0.25706	0.70098

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4BBX0P7H7H	A0N->Y (FF)	0.05958	0.13221	0.29035
	A1N->Y (FF)	0.06509	0.14046	0.30736
	A2->Y (RF)	0.02302	0.09526	0.33046
	A3->Y (RF)	0.02147	0.09179	0.32641

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4BBX0P7H7H	A0N	0.00131	0.00136	0.00141
	A0N	-0.00015	-0.00014	-0.00013
	A0N	0.00009	0.00009	0.00009
	A0N	0.00129	0.00134	0.00139
	A1N	0.00123	0.00128	0.00134
	A1N	-0.00011	-0.00010	-0.00010
	A1N	0.00009	0.00009	0.00009
	A1N	0.00125	0.00130	0.00136
	A2	0.00114	0.00117	0.00121
	A2	-0.00008	-0.00007	-0.00007
	A2	0.00011	0.00011	0.00011
	A2	0.00008	0.00011	0.00014
	A3	0.00097	0.00100	0.00105
	A3	-0.00003	-0.00002	-0.00002
	A3	0.00011	0.00011	0.00011
	A3	0.00008	0.00011	0.00015

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4BBX0P7H7H	A0N	0.00103	0.00106	0.00112
	A0N	0.00013	0.00014	0.00015
	A0N	-0.00009	-0.00009	-0.00008
	A0N	0.00098	0.00101	0.00106
	A1N	0.00120	0.00125	0.00129
	A1N	0.00010	0.00010	0.00011
	A1N	-0.00009	-0.00009	-0.00009
	A1N	0.00112	0.00117	0.00121
	A2	-0.00011	-0.00008	-0.00006
	A2	0.00007	0.00007	0.00009
	A2	-0.00011	-0.00011	-0.00011
	A2	0.00092	0.00095	0.00097
	A3	-0.00010	-0.00007	-0.00004
	A3	0.00002	0.00002	0.00003
	A3	-0.00011	-0.00011	-0.00011
	A3	0.00079	0.00082	0.00085

Passive power(pJ) for A0N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX0P7H7H	(A1N * A2 * A3 * !Y)	-0.00004	-0.00002	0.00002
	(A1N * A2 * A3 * !Y)	0.00004	0.00004	0.00005
	(A1N * A2 * A3 * !Y)	-0.00003	-0.00003	-0.00002
	(A1N * A2 * A3 * !Y)	0.00075	0.00077	0.00081
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	-0.00004	-0.00002	0.00002
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	0.00004	0.00004	0.00005
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	-0.00003	-0.00003	-0.00002
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	0.00075	0.00077	0.00081
	(!A1N * A3 * !Y)	0.00000	0.00003	0.00007
	(!A1N * A3 * !Y)	0.00004	0.00005	0.00005
	(!A1N * A3 * !Y)	-0.00003	-0.00003	-0.00002
	(!A1N * A3 * !Y)	0.00079	0.00081	0.00085
	(!A1N * A2 * !A3 * !Y)	0.00000	0.00002	0.00005
	(!A1N * A2 * !A3 * !Y)	0.00004	0.00004	0.00005
	(!A1N * A2 * !A3 * !Y)	-0.00003	-0.00003	-0.00002
	(!A1N * A2 * !A3 * !Y)	0.00079	0.00081	0.00084

Passive power(pJ) for A0N falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX0P7H7H	(A1N * A2 * A3 * !Y)	0.00092	0.00095	0.00099
	(A1N * A2 * A3 * !Y)	-0.00005	-0.00004	-0.00004
	(A1N * A2 * A3 * !Y)	0.00003	0.00003	0.00003
	(A1N * A2 * A3 * !Y)	0.00013	0.00015	0.00019
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	0.00092	0.00095	0.00099
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	-0.00005	-0.00004	-0.00004
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	0.00002	0.00003	0.00003
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	0.00013	0.00015	0.00018
	(!A1N * A3 * !Y)	0.00087	0.00089	0.00093
	(!A1N * A3 * !Y)	-0.00005	-0.00005	-0.00004
	(!A1N * A3 * !Y)	0.00002	0.00003	0.00003
	(!A1N * A3 * !Y)	0.00008	0.00011	0.00014
	(!A1N * A2 * !A3 * !Y)	0.00087	0.00089	0.00093
	(!A1N * A2 * !A3 * !Y)	-0.00005	-0.00004	-0.00004
	(!A1N * A2 * !A3 * !Y)	0.00002	0.00003	0.00003
	(!A1N * A2 * !A3 * !Y)	0.00008	0.00011	0.00014

Passive power(pJ) for A1N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX0P7H7H	(A2 * A3 * !Y)	-0.00002	0.00001	0.00003
	(A2 * A3 * !Y)	0.00005	0.00005	0.00005
	(A2 * A3 * !Y)	-0.00003	-0.00003	-0.00002
	(A2 * A3 * !Y)	0.00077	0.00079	0.00082
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	-0.00001	0.00001	0.00003
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00004	0.00004	0.00005
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	-0.00003	-0.00003	-0.00002
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00077	0.00079	0.00082

Passive power(pJ) for A1N falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX0P7H7H	(A2 * A3 * !Y)	0.00102	0.00105	0.00108
	(A2 * A3 * !Y)	-0.00005	-0.00005	-0.00005
	(A2 * A3 * !Y)	0.00003	0.00003	0.00003
	(A2 * A3 * !Y)	0.00024	0.00026	0.00029
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00102	0.00105	0.00108
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	-0.00005	-0.00004	-0.00004
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00003	0.00003	0.00003
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00024	0.00026	0.00029

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX0P7H7H	(A0N * A1N * A3 * !Y)	-0.00010	-0.00009	-0.00007
	(A0N * A1N * A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A0N * A1N * A3 * !Y)	0.00000	0.00001	0.00001
	(A0N * A1N * A3 * !Y)	0.00033	0.00033	0.00034
	(!A1N * A3 * !Y)	-0.00006	-0.00005	-0.00005
	(!A1N * A3 * !Y)	-0.00006	-0.00006	-0.00005
	(!A1N * A3 * !Y)	0.00000	0.00001	0.00001
	(!A1N * A3 * !Y)	0.00029	0.00029	0.00029
	(!A1N * !A3 * !Y)	-0.00005	-0.00005	-0.00005
	(!A1N * !A3 * !Y)	-0.00005	-0.00005	-0.00005
	(!A1N * !A3 * !Y)	0.00000	0.00001	0.00001
	(!A1N * !A3 * !Y)	0.00029	0.00029	0.00029
	(!A0N * A1N * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0N * A1N * A3 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0N * A1N * A3 * !Y)	0.00000	0.00000	0.00000
	(!A0N * A1N * A3 * !Y)	0.00035	0.00035	0.00035
	(!A0N * A1N * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0N * A1N * !A3 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0N * A1N * !A3 * !Y)	0.00000	0.00000	0.00000
	(!A0N * A1N * !A3 * !Y)	0.00034	0.00034	0.00034

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX0P7H7H	(A0N * A1N * A3 * !Y)	0.00010	0.00010	0.00010
	(A0N * A1N * A3 * !Y)	0.00002	0.00002	0.00002
	(A0N * A1N * A3 * !Y)	-0.00001	-0.00000	-0.00000
	(A0N * A1N * A3 * !Y)	-0.00033	-0.00033	-0.00032
	(!A1N * A3 * !Y)	0.00005	0.00006	0.00006
	(!A1N * A3 * !Y)	0.00005	0.00006	0.00006
	(!A1N * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1N * A3 * !Y)	-0.00029	-0.00029	-0.00029
	(!A1N * !A3 * !Y)	0.00005	0.00006	0.00006
	(!A1N * !A3 * !Y)	0.00005	0.00005	0.00005
	(!A1N * !A3 * !Y)	-0.00001	-0.00000	-0.00000
	(!A1N * !A3 * !Y)	-0.00029	-0.00029	-0.00029
	(!A0N * A1N * A3 * !Y)	0.00001	0.00001	0.00001
	(!A0N * A1N * A3 * !Y)	0.00006	0.00006	0.00006
	(!A0N * A1N * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0N * A1N * A3 * !Y)	-0.00035	-0.00035	-0.00034
	(!A0N * A1N * !A3 * !Y)	0.00001	0.00001	0.00001
	(!A0N * A1N * !A3 * !Y)	0.00005	0.00005	0.00005
	(!A0N * A1N * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0N * A1N * !A3 * !Y)	-0.00034	-0.00034	-0.00034

Passive power(pJ) for A3 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX0P7H7H	(A2 * !Y)	-0.00000	-0.00000	0.00000
	(A2 * !Y)	-0.00003	-0.00003	-0.00003
	(A2 * !Y)	0.00000	0.00001	0.00001
	(A2 * !Y)	0.00037	0.00037	0.00037
	(!A1N * !A2 * !Y)	-0.00004	-0.00003	-0.00003
	(!A1N * !A2 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1N * !A2 * !Y)	0.00000	0.00000	0.00001
	(!A1N * !A2 * !Y)	0.00034	0.00034	0.00034
	(!A0N * A1N * !A2 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0N * A1N * !A2 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0N * A1N * !A2 * !Y)	0.00000	0.00001	0.00001
	(!A0N * A1N * !A2 * !Y)	0.00037	0.00037	0.00038

Passive power(pJ) for A3 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX0P7H7H	(A2 * !Y)	0.00000	0.00000	0.00000
	(A2 * !Y)	0.00003	0.00003	0.00003
	(A2 * !Y)	-0.00000	-0.00000	-0.00000
	(A2 * !Y)	-0.00037	-0.00037	-0.00037
	(!A1N * !A2 * !Y)	0.00004	0.00004	0.00004
	(!A1N * !A2 * !Y)	0.00003	0.00003	0.00003
	(!A1N * !A2 * !Y)	-0.00001	-0.00000	-0.00000
	(!A1N * !A2 * !Y)	-0.00034	-0.00034	-0.00033
	(!A0N * A1N * !A2 * !Y)	0.00000	0.00000	0.00001
	(!A0N * A1N * !A2 * !Y)	0.00003	0.00003	0.00003
	(!A0N * A1N * !A2 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0N * A1N * !A2 * !Y)	-0.00038	-0.00037	-0.00037

NOR4BBX1H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

NOR4BB, In: AN, BN, C, D, Out: Y

Truth Table

INPUT				OUTPUT
A0N	A1N	A2	A3	Y
0	x	x	x	0
1	0	x	x	0
1	1	0	0	1
1	1	x	1	0
1	1	1	x	0

Footprint

Cell Name	Area
NOR4BBX1H7H	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0N	A1N	A2	A3	Y
NOR4BBX1H7H	0.00100	0.00089	0.00099	0.00102	0.00986

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR4BBX1H7H	0.00000	0.02187	0.05333

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4BBX1H7H	A0N->Y (RR)	0.13818	0.29089	0.66101
	A1N->Y (RR)	0.14034	0.29486	0.67032
	A2->Y (FR)	0.10505	0.27129	0.74477
	A3->Y (FR)	0.09141	0.25143	0.71084

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4BBX1H7H	A0N->Y (FF)	0.05994	0.13506	0.30001
	A1N->Y (FF)	0.06428	0.14161	0.31358
	A2->Y (RF)	0.02190	0.09609	0.34214
	A3->Y (RF)	0.02031	0.09249	0.33820

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4BBX1H7H	A0N	0.00149	0.00154	0.00160
	A0N	-0.00018	-0.00018	-0.00017
	A0N	0.00011	0.00011	0.00011
	A0N	0.00135	0.00139	0.00145
	A1N	0.00137	0.00142	0.00148
	A1N	-0.00014	-0.00013	-0.00012
	A1N	0.00011	0.00011	0.00011
	A1N	0.00129	0.00134	0.00140
	A2	0.00126	0.00129	0.00133
	A2	-0.00011	-0.00009	-0.00008
	A2	0.00013	0.00013	0.00013
	A2	0.00006	0.00009	0.00013
	A3	0.00106	0.00109	0.00114
	A3	-0.00003	-0.00003	-0.00003
	A3	0.00013	0.00013	0.00013
	A3	0.00007	0.00010	0.00015

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4BBX1H7H	**A0N**	0.00107	0.00110	0.00114
	A0N	0.00017	0.00018	0.00018
	A0N	-0.00011	-0.00011	-0.00010
	A0N	0.00112	0.00116	0.00120
	A1N	0.00121	0.00125	0.00130
	A1N	0.00012	0.00013	0.00014
	A1N	-0.00011	-0.00011	-0.00011
	A1N	0.00122	0.00127	0.00132
	A2	-0.00013	-0.00009	-0.00007
	A2	0.00008	0.00009	0.00011
	A2	-0.00013	-0.00013	-0.00013
	A2	0.00103	0.00107	0.00109
	A3	-0.00013	-0.00008	-0.00005
	A3	0.00003	0.00003	0.00003
	A3	-0.00013	-0.00013	-0.00013
	A3	0.00087	0.00090	0.00093

Passive power(pJ) for A0N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX1H7H	(A1N * A2 * A3 * !Y)	-0.00003	-0.00000	0.00003
	(A1N * A2 * A3 * !Y)	0.00005	0.00005	0.00005
	(A1N * A2 * A3 * !Y)	-0.00003	-0.00003	-0.00003
	(A1N * A2 * A3 * !Y)	0.00077	0.00079	0.00082
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	-0.00003	-0.00000	0.00003
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	0.00005	0.00005	0.00005
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	-0.00003	-0.00003	-0.00003
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	0.00077	0.00079	0.00082
	(!A1N * A3 * !Y)	0.00002	0.00005	0.00009
	(!A1N * A3 * !Y)	0.00005	0.00005	0.00005
	(!A1N * A3 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1N * A3 * !Y)	0.00081	0.00083	0.00087
	(!A1N * A2 * !A3 * !Y)	0.00002	0.00005	0.00009
	(!A1N * A2 * !A3 * !Y)	0.00005	0.00005	0.00005
	(!A1N * A2 * !A3 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1N * A2 * !A3 * !Y)	0.00081	0.00083	0.00087

Passive power(pJ) for A0N falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX1H7H	(A1N * A2 * A3 * !Y)	0.00094	0.00097	0.00100
	(A1N * A2 * A3 * !Y)	-0.00005	-0.00005	-0.00005
	(A1N * A2 * A3 * !Y)	0.00003	0.00003	0.00003
	(A1N * A2 * A3 * !Y)	0.00015	0.00017	0.00021
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	0.00094	0.00097	0.00100
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	-0.00005	-0.00005	-0.00005
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	0.00003	0.00003	0.00003
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	0.00015	0.00017	0.00021
	(!A1N * A3 * !Y)	0.00089	0.00091	0.00095
	(!A1N * A3 * !Y)	-0.00005	-0.00005	-0.00005
	(!A1N * A3 * !Y)	0.00003	0.00003	0.00003
	(!A1N * A3 * !Y)	0.00010	0.00012	0.00016
	(!A1N * A2 * !A3 * !Y)	0.00089	0.00091	0.00095
	(!A1N * A2 * !A3 * !Y)	-0.00005	-0.00005	-0.00005
	(!A1N * A2 * !A3 * !Y)	0.00003	0.00003	0.00003
	(!A1N * A2 * !A3 * !Y)	0.00010	0.00012	0.00016

Passive power(pJ) for A1N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX1H7H	(A2 * A3 * !Y)	0.00000	0.00002	0.00005
	(A2 * A3 * !Y)	0.00005	0.00005	0.00006
	(A2 * A3 * !Y)	-0.00003	-0.00003	-0.00002
	(A2 * A3 * !Y)	0.00079	0.00082	0.00085
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00000	0.00002	0.00005
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00005	0.00005	0.00005
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	-0.00003	-0.00003	-0.00002
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00079	0.00082	0.00085

Passive power(pJ) for A1N falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX1H7H	(A2 * A3 * !Y)	0.00102	0.00105	0.00108
	(A2 * A3 * !Y)	-0.00006	-0.00005	-0.00005
	(A2 * A3 * !Y)	0.00003	0.00003	0.00003
	(A2 * A3 * !Y)	0.00022	0.00024	0.00027
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00102	0.00105	0.00108
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	-0.00005	-0.00005	-0.00005
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00003	0.00003	0.00003
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00022	0.00024	0.00027

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX1H7H	(A0N * A1N * A3 * !Y)	-0.00012	-0.00011	-0.00009
	(A0N * A1N * A3 * !Y)	-0.00003	-0.00003	-0.00002
	(A0N * A1N * A3 * !Y)	0.00000	0.00001	0.00001
	(A0N * A1N * A3 * !Y)	0.00035	0.00036	0.00036
	(!A1N * A3 * !Y)	-0.00007	-0.00007	-0.00006
	(!A1N * A3 * !Y)	-0.00008	-0.00007	-0.00007
	(!A1N * A3 * !Y)	0.00000	0.00001	0.00001
	(!A1N * A3 * !Y)	0.00030	0.00031	0.00031
	(!A1N * !A3 * !Y)	-0.00007	-0.00007	-0.00007
	(!A1N * !A3 * !Y)	-0.00006	-0.00006	-0.00006
	(!A1N * !A3 * !Y)	0.00000	0.00001	0.00001
	(!A1N * !A3 * !Y)	0.00030	0.00030	0.00031
	(!A0N * A1N * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0N * A1N * A3 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0N * A1N * A3 * !Y)	0.00000	0.00001	0.00001
	(!A0N * A1N * A3 * !Y)	0.00038	0.00038	0.00039
	(!A0N * A1N * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0N * A1N * !A3 * !Y)	-0.00006	-0.00006	-0.00005
	(!A0N * A1N * !A3 * !Y)	0.00000	0.00001	0.00001
	(!A0N * A1N * !A3 * !Y)	0.00037	0.00037	0.00038

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX1H7H	(A0N * A1N * A3 * !Y)	0.00012	0.00012	0.00012
	(A0N * A1N * A3 * !Y)	0.00002	0.00003	0.00003
	(A0N * A1N * A3 * !Y)	-0.00001	-0.00000	0.00000
	(A0N * A1N * A3 * !Y)	-0.00035	-0.00035	-0.00035
	(!A1N * A3 * !Y)	0.00006	0.00007	0.00007
	(!A1N * A3 * !Y)	0.00007	0.00007	0.00008
	(!A1N * A3 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1N * A3 * !Y)	-0.00031	-0.00030	-0.00030
	(!A1N * !A3 * !Y)	0.00007	0.00007	0.00007
	(!A1N * !A3 * !Y)	0.00006	0.00006	0.00006
	(!A1N * !A3 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1N * !A3 * !Y)	-0.00030	-0.00030	-0.00030
	(!A0N * A1N * A3 * !Y)	0.00001	0.00001	0.00001
	(!A0N * A1N * A3 * !Y)	0.00007	0.00007	0.00007
	(!A0N * A1N * A3 * !Y)	-0.00001	-0.00000	-0.00000
	(!A0N * A1N * A3 * !Y)	-0.00038	-0.00038	-0.00038
	(!A0N * A1N * !A3 * !Y)	0.00001	0.00001	0.00001
	(!A0N * A1N * !A3 * !Y)	0.00005	0.00006	0.00006
	(!A0N * A1N * !A3 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0N * A1N * !A3 * !Y)	-0.00038	-0.00037	-0.00037

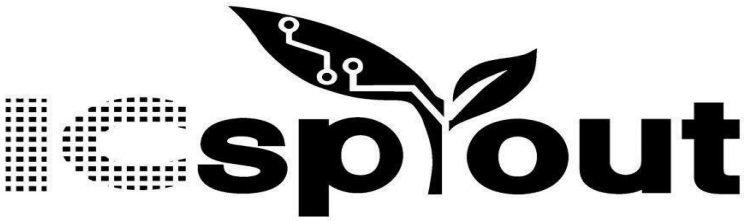
Passive power(pJ) for A3 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX1H7H	(A2 * !Y)	-0.00000	-0.00000	0.00000
	(A2 * !Y)	-0.00004	-0.00004	-0.00004
	(A2 * !Y)	0.00000	0.00001	0.00001
	(A2 * !Y)	0.00039	0.00040	0.00040
	(!A1N * !A2 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1N * !A2 * !Y)	-0.00004	-0.00004	-0.00004
	(!A1N * !A2 * !Y)	0.00000	0.00001	0.00001
	(!A1N * !A2 * !Y)	0.00036	0.00036	0.00037
	(!A0N * A1N * !A2 * !Y)	-0.00000	-0.00000	0.00000
	(!A0N * A1N * !A2 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0N * A1N * !A2 * !Y)	0.00001	0.00001	0.00001
	(!A0N * A1N * !A2 * !Y)	0.00040	0.00040	0.00040

Passive power(pJ) for A3 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX1H7H	(A2 * !Y)	0.00000	0.00000	0.00000
	(A2 * !Y)	0.00004	0.00004	0.00004
	(A2 * !Y)	-0.00001	-0.00001	-0.00000
	(A2 * !Y)	-0.00040	-0.00040	-0.00039
	(!A1N * !A2 * !Y)	0.00004	0.00004	0.00004
	(!A1N * !A2 * !Y)	0.00004	0.00004	0.00004
	(!A1N * !A2 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1N * !A2 * !Y)	-0.00037	-0.00036	-0.00036
	(!A0N * A1N * !A2 * !Y)	0.00000	0.00000	0.00000
	(!A0N * A1N * !A2 * !Y)	0.00004	0.00004	0.00005
	(!A0N * A1N * !A2 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0N * A1N * !A2 * !Y)	-0.00040	-0.00040	-0.00040

NOR4BBX1P4H7H



tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

NOR4BB, In: AN, BN, C, D, Out: Y

Truth Table

INPUT				OUTPUT
A0N	A1N	A2	A3	Y
0	x	x	x	0
1	0	x	x	0
1	1	0	0	1
1	1	x	1	0
1	1	1	x	0

Footprint

Cell Name	Area
NOR4BBX1P4H7H	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0N	A1N	A2	A3	Y
NOR4BBX1P4H7H	0.00103	0.00089	0.00106	0.00108	0.01100

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR4BBX1P4H7H	0.00000	0.02417	0.07500

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4BBX1P4H7H	A0N->Y (RR)	0.13565	0.28880	0.65984
	A1N->Y (RR)	0.13746	0.29265	0.66943
	A2->Y (FR)	0.09955	0.26530	0.73730
	A3->Y (FR)	0.08497	0.24436	0.70184

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4BBX1P4H7H	A0N->Y (FF)	0.06163	0.13805	0.30691
	A1N->Y (FF)	0.06643	0.14525	0.32189
	A2->Y (RF)	0.02105	0.09524	0.34234
	A3->Y (RF)	0.01936	0.09133	0.33792

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4BBX1P4H7H	A0N	0.00169	0.00174	0.00180
	A0N	-0.00023	-0.00021	-0.00020
	A0N	0.00012	0.00013	0.00013
	A0N	0.00146	0.00151	0.00157
	A1N	0.00154	0.00160	0.00166
	A1N	-0.00016	-0.00015	-0.00015
	A1N	0.00013	0.00013	0.00014
	A1N	0.00138	0.00144	0.00150
	A2	0.00139	0.00143	0.00147
	A2	-0.00012	-0.00011	-0.00010
	A2	0.00015	0.00015	0.00015
	A2	0.00009	0.00012	0.00016
	A3	0.00113	0.00119	0.00124
	A3	-0.00004	-0.00003	-0.00002
	A3	0.00015	0.00015	0.00015
	A3	0.00009	0.00013	0.00018

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4BBX1P4H7H	A0N	0.00113	0.00116	0.00121
	A0N	0.00020	0.00021	0.00023
	A0N	-0.00013	-0.00013	-0.00012
	A0N	0.00124	0.00129	0.00135
	A1N	0.00129	0.00134	0.00139
	A1N	0.00015	0.00015	0.00016
	A1N	-0.00013	-0.00013	-0.00012
	A1N	0.00136	0.00141	0.00146
	A2	-0.00015	-0.00011	-0.00009
	A2	0.00010	0.00011	0.00014
	A2	-0.00015	-0.00015	-0.00015
	A2	0.00111	0.00115	0.00118
	A3	-0.00014	-0.00010	-0.00006
	A3	0.00002	0.00004	0.00005
	A3	-0.00015	-0.00015	-0.00015
	A3	0.00092	0.00096	0.00099

Passive power(pJ) for A0N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX1P4H7H	(A1N * A2 * A3 * !Y)	-0.00001	0.00001	0.00004
	(A1N * A2 * A3 * !Y)	0.00005	0.00005	0.00006
	(A1N * A2 * A3 * !Y)	-0.00003	-0.00003	-0.00003
	(A1N * A2 * A3 * !Y)	0.00080	0.00083	0.00086
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	-0.00001	0.00001	0.00006
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	0.00005	0.00005	0.00006
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	-0.00003	-0.00003	-0.00003
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	0.00080	0.00083	0.00087
	(!A1N * A3 * !Y)	0.00004	0.00007	0.00011
	(!A1N * A3 * !Y)	0.00005	0.00005	0.00005
	(!A1N * A3 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1N * A3 * !Y)	0.00085	0.00088	0.00091
	(!A1N * A2 * !A3 * !Y)	0.00004	0.00007	0.00011
	(!A1N * A2 * !A3 * !Y)	0.00005	0.00005	0.00005
	(!A1N * A2 * !A3 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1N * A2 * !A3 * !Y)	0.00085	0.00088	0.00091

Passive power(pJ) for A0N falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX1P4H7H	(A1N * A2 * A3 * !Y)	0.00099	0.00102	0.00105
	(A1N * A2 * A3 * !Y)	-0.00006	-0.00005	-0.00005
	(A1N * A2 * A3 * !Y)	0.00003	0.00003	0.00003
	(A1N * A2 * A3 * !Y)	0.00017	0.00020	0.00024
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	0.00099	0.00102	0.00106
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	-0.00006	-0.00005	-0.00005
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	0.00003	0.00003	0.00003
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	0.00017	0.00020	0.00024
	(!A1N * A3 * !Y)	0.00093	0.00096	0.00100
	(!A1N * A3 * !Y)	-0.00005	-0.00005	-0.00005
	(!A1N * A3 * !Y)	0.00003	0.00003	0.00003
	(!A1N * A3 * !Y)	0.00012	0.00014	0.00017
	(!A1N * A2 * !A3 * !Y)	0.00093	0.00096	0.00100
	(!A1N * A2 * !A3 * !Y)	-0.00005	-0.00005	-0.00005
	(!A1N * A2 * !A3 * !Y)	0.00003	0.00003	0.00003
	(!A1N * A2 * !A3 * !Y)	0.00012	0.00014	0.00018

Passive power(pJ) for A1N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX1P4H7H	(A2 * A3 * !Y)	0.00002	0.00004	0.00007
	(A2 * A3 * !Y)	0.00005	0.00005	0.00006
	(A2 * A3 * !Y)	-0.00003	-0.00003	-0.00003
	(A2 * A3 * !Y)	0.00083	0.00085	0.00088
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00002	0.00004	0.00007
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00005	0.00005	0.00006
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	-0.00003	-0.00003	-0.00002
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00083	0.00085	0.00088

Passive power(pJ) for A1N falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX1P4H7H	(A2 * A3 * !Y)	0.00108	0.00111	0.00114
	(A2 * A3 * !Y)	-0.00006	-0.00005	-0.00005
	(A2 * A3 * !Y)	0.00003	0.00003	0.00003
	(A2 * A3 * !Y)	0.00026	0.00029	0.00031
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00108	0.00111	0.00114
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	-0.00006	-0.00005	-0.00005
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00003	0.00003	0.00003
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00026	0.00029	0.00032

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX1P4H7H	(A0N * A1N * A3 * !Y)	-0.00015	-0.00013	-0.00011
	(A0N * A1N * A3 * !Y)	-0.00003	-0.00003	-0.00003
	(A0N * A1N * A3 * !Y)	-0.00000	0.00001	0.00001
	(A0N * A1N * A3 * !Y)	0.00036	0.00037	0.00038
	(!A1N * A3 * !Y)	-0.00008	-0.00008	-0.00008
	(!A1N * A3 * !Y)	-0.00009	-0.00009	-0.00009
	(!A1N * A3 * !Y)	0.00000	0.00001	0.00001
	(!A1N * A3 * !Y)	0.00030	0.00030	0.00030
	(!A1N * !A3 * !Y)	-0.00008	-0.00008	-0.00008
	(!A1N * !A3 * !Y)	-0.00007	-0.00007	-0.00007
	(!A1N * !A3 * !Y)	0.00000	0.00001	0.00001
	(!A1N * !A3 * !Y)	0.00030	0.00030	0.00030
	(!A0N * A1N * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0N * A1N * A3 * !Y)	-0.00009	-0.00009	-0.00008
	(!A0N * A1N * A3 * !Y)	0.00000	0.00001	0.00001
	(!A0N * A1N * A3 * !Y)	0.00040	0.00040	0.00040
	(!A0N * A1N * !A3 * !Y)	-0.00001	-0.00000	-0.00000
	(!A0N * A1N * !A3 * !Y)	-0.00007	-0.00007	-0.00006
	(!A0N * A1N * !A3 * !Y)	0.00000	0.00001	0.00001
	(!A0N * A1N * !A3 * !Y)	0.00039	0.00039	0.00039

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX1P4H7H	(A0N * A1N * A3 * !Y)	0.00015	0.00015	0.00015
	(A0N * A1N * A3 * !Y)	0.00003	0.00003	0.00003
	(A0N * A1N * A3 * !Y)	-0.00001	-0.00000	0.00000
	(A0N * A1N * A3 * !Y)	-0.00037	-0.00036	-0.00036
	(!A1N * A3 * !Y)	0.00008	0.00008	0.00008
	(!A1N * A3 * !Y)	0.00009	0.00009	0.00009
	(!A1N * A3 * !Y)	-0.00001	-0.00000	0.00000
	(!A1N * A3 * !Y)	-0.00030	-0.00030	-0.00030
	(!A1N * !A3 * !Y)	0.00008	0.00008	0.00008
	(!A1N * !A3 * !Y)	0.00007	0.00007	0.00008
	(!A1N * !A3 * !Y)	-0.00001	-0.00000	0.00000
	(!A1N * !A3 * !Y)	-0.00030	-0.00030	-0.00030
	(!A0N * A1N * A3 * !Y)	0.00001	0.00001	0.00001
	(!A0N * A1N * A3 * !Y)	0.00008	0.00009	0.00009
	(!A0N * A1N * A3 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0N * A1N * A3 * !Y)	-0.00040	-0.00040	-0.00039
	(!A0N * A1N * !A3 * !Y)	0.00001	0.00001	0.00001
	(!A0N * A1N * !A3 * !Y)	0.00007	0.00007	0.00008
	(!A0N * A1N * !A3 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0N * A1N * !A3 * !Y)	-0.00039	-0.00039	-0.00038

Passive power(pJ) for A3 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX1P4H7H	(A2 * !Y)	-0.00000	-0.00000	0.00000
	(A2 * !Y)	-0.00004	-0.00004	-0.00004
	(A2 * !Y)	0.00001	0.00001	0.00001
	(A2 * !Y)	0.00042	0.00042	0.00042
	(!A1N * !A2 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1N * !A2 * !Y)	-0.00004	-0.00004	-0.00004
	(!A1N * !A2 * !Y)	0.00000	0.00001	0.00001
	(!A1N * !A2 * !Y)	0.00038	0.00038	0.00039
	(!A0N * A1N * !A2 * !Y)	-0.00000	-0.00000	0.00000
	(!A0N * A1N * !A2 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0N * A1N * !A2 * !Y)	0.00000	0.00001	0.00001
	(!A0N * A1N * !A2 * !Y)	0.00041	0.00042	0.00042

Passive power(pJ) for A3 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX1P4H7H	(A2 * !Y)	0.00000	0.00000	0.00000
	(A2 * !Y)	0.00004	0.00005	0.00005
	(A2 * !Y)	-0.00001	-0.00001	-0.00001
	(A2 * !Y)	-0.00042	-0.00042	-0.00041
	(!A1N * !A2 * !Y)	0.00004	0.00004	0.00004
	(!A1N * !A2 * !Y)	0.00004	0.00005	0.00005
	(!A1N * !A2 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1N * !A2 * !Y)	-0.00039	-0.00038	-0.00038
	(!A0N * A1N * !A2 * !Y)	0.00000	0.00000	0.00000
	(!A0N * A1N * !A2 * !Y)	0.00004	0.00005	0.00005
	(!A0N * A1N * !A2 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0N * A1N * !A2 * !Y)	-0.00042	-0.00042	-0.00041

NOR4BBX2H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

NOR4BB, In: AN, BN, C, D, Out: Y

Truth Table

INPUT				OUTPUT
A0N	A1N	A2	A3	Y
0	x	x	x	0
1	0	x	x	0
1	1	0	0	1
1	1	x	1	0
1	1	1	x	0

Footprint

Cell Name	Area
NOR4BBX2H7H	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0N	A1N	A2	A3	Y
NOR4BBX2H7H	0.00102	0.00091	0.00114	0.00124	0.01305

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR4BBX2H7H	0.00000	0.02815	0.11295

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4BBX2H7H	A0N->Y (RR)	0.12860	0.28702	0.67147
	A1N->Y (RR)	0.12901	0.28923	0.67897
	A2->Y (FR)	0.09128	0.26160	0.74747
	A3->Y (FR)	0.07763	0.24139	0.71230

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4BBX2H7H	A0N->Y (FF)	0.06060	0.13813	0.31011
	A1N->Y (FF)	0.06513	0.14479	0.32393
	A2->Y (RF)	0.01935	0.09317	0.34358
	A3->Y (RF)	0.01789	0.08936	0.33957

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4BBX2H7H	A0N	0.00188	0.00192	0.00199
	A0N	-0.00026	-0.00026	-0.00024
	A0N	0.00016	0.00016	0.00016
	A0N	0.00148	0.00153	0.00159
	A1N	0.00168	0.00173	0.00180
	A1N	-0.00019	-0.00018	-0.00017
	A1N	0.00016	0.00016	0.00016
	A1N	0.00140	0.00145	0.00152
	A2	0.00150	0.00153	0.00157
	A2	-0.00014	-0.00013	-0.00010
	A2	0.00018	0.00018	0.00018
	A2	0.00003	0.00006	0.00011
	A3	0.00120	0.00127	0.00133
	A3	-0.00005	-0.00004	-0.00004
	A3	0.00018	0.00018	0.00019
	A3	0.00001	0.00005	0.00011

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4BBX2H7H	A0N	0.00114	0.00118	0.00123
	A0N	0.00024	0.00026	0.00026
	A0N	-0.00016	-0.00016	-0.00015
	A0N	0.00140	0.00144	0.00150
	A1N	0.00129	0.00134	0.00140
	A1N	0.00017	0.00018	0.00019
	A1N	-0.00016	-0.00016	-0.00015
	A1N	0.00147	0.00152	0.00158
	A2	-0.00017	-0.00013	-0.00009
	A2	0.00010	0.00013	0.00014
	A2	-0.00018	-0.00018	-0.00018
	A2	0.00124	0.00128	0.00131
	A3	-0.00126	-0.00014	-0.00007
	A3	0.00004	0.00022	0.00856
	A3	-0.00018	-0.00018	-0.00014
	A3	0.00105	0.00112	0.00207

Passive power(pJ) for A0N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX2H7H	(A1N * A2 * A3 * !Y)	0.00001	0.00004	0.00007
	(A1N * A2 * A3 * !Y)	0.00006	0.00006	0.00006
	(A1N * A2 * A3 * !Y)	-0.00003	-0.00003	-0.00003
	(A1N * A2 * A3 * !Y)	0.00083	0.00086	0.00089
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	0.00002	0.00004	0.00007
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	0.00006	0.00006	0.00006
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	-0.00003	-0.00003	-0.00003
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	0.00083	0.00086	0.00089
	(!A1N * A3 * !Y)	0.00007	0.00010	0.00014
	(!A1N * A3 * !Y)	0.00005	0.00006	0.00006
	(!A1N * A3 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1N * A3 * !Y)	0.00089	0.00091	0.00094
	(!A1N * A2 * !A3 * !Y)	0.00007	0.00010	0.00014
	(!A1N * A2 * !A3 * !Y)	0.00005	0.00006	0.00006
	(!A1N * A2 * !A3 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1N * A2 * !A3 * !Y)	0.00089	0.00091	0.00095

Passive power(pJ) for A0N falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX2H7H	(A1N * A2 * A3 * !Y)	0.00099	0.00102	0.00106
	(A1N * A2 * A3 * !Y)	-0.00006	-0.00006	-0.00006
	(A1N * A2 * A3 * !Y)	0.00003	0.00003	0.00003
	(A1N * A2 * A3 * !Y)	0.00017	0.00020	0.00024
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	0.00099	0.00102	0.00106
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	-0.00006	-0.00006	-0.00006
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	0.00003	0.00003	0.00003
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	0.00017	0.00020	0.00024
	(!A1N * A3 * !Y)	0.00093	0.00096	0.00099
	(!A1N * A3 * !Y)	-0.00006	-0.00006	-0.00005
	(!A1N * A3 * !Y)	0.00003	0.00003	0.00003
	(!A1N * A3 * !Y)	0.00011	0.00014	0.00017
	(!A1N * A2 * !A3 * !Y)	0.00093	0.00096	0.00099
	(!A1N * A2 * !A3 * !Y)	-0.00006	-0.00006	-0.00005
	(!A1N * A2 * !A3 * !Y)	0.00003	0.00003	0.00003
	(!A1N * A2 * !A3 * !Y)	0.00011	0.00014	0.00017

Passive power(pJ) for A1N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX2H7H	(A2 * A3 * !Y)	0.00004	0.00006	0.00009
	(A2 * A3 * !Y)	0.00006	0.00006	0.00006
	(A2 * A3 * !Y)	-0.00003	-0.00003	-0.00003
	(A2 * A3 * !Y)	0.00089	0.00091	0.00093
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00004	0.00006	0.00009
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00005	0.00006	0.00006
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	-0.00003	-0.00003	-0.00003
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00089	0.00091	0.00093

Passive power(pJ) for A1N falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX2H7H	(A2 * A3 * !Y)	0.00108	0.00111	0.00114
	(A2 * A3 * !Y)	-0.00006	-0.00006	-0.00006
	(A2 * A3 * !Y)	0.00003	0.00003	0.00003
	(A2 * A3 * !Y)	0.00023	0.00026	0.00028
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00108	0.00111	0.00114
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	-0.00006	-0.00006	-0.00005
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00003	0.00003	0.00003
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00023	0.00026	0.00028

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX2H7H	(A0N * A1N * A3 * !Y)	-0.00017	-0.00015	-0.00012
	(A0N * A1N * A3 * !Y)	-0.00004	-0.00003	-0.00003
	(A0N * A1N * A3 * !Y)	0.00001	0.00001	0.00001
	(A0N * A1N * A3 * !Y)	0.00038	0.00039	0.00040
	(!A1N * A3 * !Y)	-0.00009	-0.00009	-0.00009
	(!A1N * A3 * !Y)	-0.00010	-0.00010	-0.00010
	(!A1N * A3 * !Y)	0.00001	0.00001	0.00001
	(!A1N * A3 * !Y)	0.00032	0.00032	0.00033
	(!A1N * !A3 * !Y)	-0.00009	-0.00009	-0.00009
	(!A1N * !A3 * !Y)	-0.00008	-0.00008	-0.00007
	(!A1N * !A3 * !Y)	0.00001	0.00001	0.00002
	(!A1N * !A3 * !Y)	0.00031	0.00032	0.00032
	(!A0N * A1N * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0N * A1N * A3 * !Y)	-0.00010	-0.00010	-0.00010
	(!A0N * A1N * A3 * !Y)	0.00001	0.00001	0.00001
	(!A0N * A1N * A3 * !Y)	0.00042	0.00043	0.00043
	(!A0N * A1N * !A3 * !Y)	-0.00000	-0.00000	0.00000
	(!A0N * A1N * !A3 * !Y)	-0.00008	-0.00008	-0.00008
	(!A0N * A1N * !A3 * !Y)	0.00001	0.00001	0.00001
	(!A0N * A1N * !A3 * !Y)	0.00041	0.00041	0.00041

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX2H7H	(A0N * A1N * A3 * !Y)	0.00017	0.00017	0.00017
	(A0N * A1N * A3 * !Y)	0.00003	0.00003	0.00004
	(A0N * A1N * A3 * !Y)	-0.00001	-0.00001	0.00000
	(A0N * A1N * A3 * !Y)	-0.00039	-0.00038	-0.00038
	(!A1N * A3 * !Y)	0.00009	0.00009	0.00009
	(!A1N * A3 * !Y)	0.00010	0.00010	0.00010
	(!A1N * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1N * A3 * !Y)	-0.00032	-0.00032	-0.00032
	(!A1N * !A3 * !Y)	0.00009	0.00009	0.00009
	(!A1N * !A3 * !Y)	0.00007	0.00008	0.00009
	(!A1N * !A3 * !Y)	-0.00002	-0.00001	-0.00001
	(!A1N * !A3 * !Y)	-0.00032	-0.00032	-0.00031
	(!A0N * A1N * A3 * !Y)	0.00001	0.00001	0.00001
	(!A0N * A1N * A3 * !Y)	0.00010	0.00010	0.00010
	(!A0N * A1N * A3 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0N * A1N * A3 * !Y)	-0.00043	-0.00042	-0.00042
	(!A0N * A1N * !A3 * !Y)	0.00001	0.00001	0.00001
	(!A0N * A1N * !A3 * !Y)	0.00008	0.00008	0.00008
	(!A0N * A1N * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0N * A1N * !A3 * !Y)	-0.00041	-0.00041	-0.00040

Passive power(pJ) for A3 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX2H7H	(A2 * !Y)	-0.00000	-0.00000	0.00000
	(A2 * !Y)	-0.00005	-0.00005	-0.00005
	(A2 * !Y)	0.00001	0.00001	0.00001
	(A2 * !Y)	0.00048	0.00048	0.00048
	(!A1N * !A2 * !Y)	-0.00004	-0.00004	-0.00004
	(!A1N * !A2 * !Y)	-0.00005	-0.00005	-0.00005
	(!A1N * !A2 * !Y)	0.00000	0.00001	0.00001
	(!A1N * !A2 * !Y)	0.00044	0.00044	0.00045
	(!A0N * A1N * !A2 * !Y)	-0.00000	0.00000	0.00000
	(!A0N * A1N * !A2 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0N * A1N * !A2 * !Y)	0.00001	0.00001	0.00001
	(!A0N * A1N * !A2 * !Y)	0.00048	0.00048	0.00048

Passive power(pJ) for A3 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX2H7H	(A2 * !Y)	0.00000	0.00000	0.00001
	(A2 * !Y)	0.00005	0.00005	0.00006
	(A2 * !Y)	-0.00001	-0.00001	-0.00000
	(A2 * !Y)	-0.00048	-0.00048	-0.00048
	(!A1N * !A2 * !Y)	0.00004	0.00004	0.00004
	(!A1N * !A2 * !Y)	0.00005	0.00005	0.00005
	(!A1N * !A2 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1N * !A2 * !Y)	-0.00045	-0.00044	-0.00044
	(!A0N * A1N * !A2 * !Y)	0.00000	0.00000	0.00001
	(!A0N * A1N * !A2 * !Y)	0.00005	0.00005	0.00006
	(!A0N * A1N * !A2 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0N * A1N * !A2 * !Y)	-0.00048	-0.00048	-0.00048

NOR4BBX3H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

NOR4BB, In: AN, BN, C, D, Out: Y

Truth Table

INPUT				OUTPUT
A0N	A1N	A2	A3	Y
0	x	x	x	0
1	0	x	x	0
1	1	0	0	1
1	1	x	1	0
1	1	1	x	0

Footprint

Cell Name	Area
NOR4BBX3H7H	5.04000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0N	A1N	A2	A3	Y
NOR4BBX3H7H	0.00099	0.00103	0.00191	0.00204	0.02051

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR4BBX3H7H	0.00000	0.03989	0.10775

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4BBX3H7H	A0N->Y (RR)	0.13809	0.30231	0.70130
	A1N->Y (RR)	0.13511	0.30071	0.70391
	A2->Y (FR)	0.09543	0.26486	0.74899
	A3->Y (FR)	0.07607	0.23850	0.70754

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4BBX3H7H	A0N->Y (FF)	0.06304	0.14476	0.32747
	A1N->Y (FF)	0.06756	0.15054	0.33840
	A2->Y (RF)	0.01966	0.09330	0.34210
	A3->Y (RF)	0.01785	0.08839	0.33669

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4BBX3H7H	A0N	0.00359	0.00365	0.00373
	A0N	-0.00039	-0.00038	-0.00037
	A0N	0.00024	0.00025	0.00026
	A0N	0.00235	0.00242	0.00250
	A1N	0.00317	0.00324	0.00333
	A1N	-0.00034	-0.00028	-0.00026
	A1N	0.00025	0.00025	0.00025
	A1N	0.00211	0.00219	0.00227
	A2	0.00273	0.00278	0.00285
	A2	-0.00022	-0.00019	-0.00015
	A2	0.00028	0.00028	0.00028
	A2	0.00028	0.00034	0.00041
	A3	0.00212	0.00221	0.00232
	A3	-0.00006	-0.00006	-0.00003
	A3	0.00027	0.00028	0.00028
	A3	0.00017	0.00024	0.00034

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4BBX3H7H	A0N	0.00167	0.00172	0.00178
	A0N	0.00037	0.00038	0.00039
	A0N	-0.00025	-0.00025	-0.00024
	A0N	0.00265	0.00271	0.00278
	A1N	0.00179	0.00187	0.00195
	A1N	0.00026	0.00028	0.00034
	A1N	-0.00025	-0.00025	-0.00024
	A1N	0.00263	0.00272	0.00281
	A2	-0.00029	-0.00022	-0.00017
	A2	0.00015	0.00019	0.00028
	A2	-0.00028	-0.00028	-0.00027
	A2	0.00205	0.00212	0.00220
	A3	-0.00027	-0.00018	-0.00009
	A3	0.00003	0.00006	0.00008
	A3	-0.00028	-0.00028	-0.00027
	A3	0.00170	0.00178	0.00183

Passive power(pJ) for A0N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX3H7H	(A1N * A2 * A3 * !Y)	0.00010	0.00012	0.00015
	(A1N * A2 * A3 * !Y)	0.00009	0.00010	0.00010
	(A1N * A2 * A3 * !Y)	-0.00004	-0.00004	-0.00004
	(A1N * A2 * A3 * !Y)	0.00092	0.00095	0.00098
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	0.00010	0.00012	0.00015
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	0.00009	0.00010	0.00010
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	-0.00004	-0.00004	-0.00004
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	0.00092	0.00095	0.00098
	(!A1N * A3 * !Y)	0.00027	0.00029	0.00032
	(!A1N * A3 * !Y)	0.00009	0.00009	0.00010
	(!A1N * A3 * !Y)	-0.00004	-0.00004	-0.00004
	(!A1N * A3 * !Y)	0.00108	0.00110	0.00113
	(!A1N * A2 * !A3 * !Y)	0.00027	0.00029	0.00032
	(!A1N * A2 * !A3 * !Y)	0.00009	0.00009	0.00010
	(!A1N * A2 * !A3 * !Y)	-0.00004	-0.00004	-0.00004
	(!A1N * A2 * !A3 * !Y)	0.00108	0.00110	0.00113

Passive power(pJ) for A0N falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX3H7H	(A1N * A2 * A3 * !Y)	0.00139	0.00143	0.00146
	(A1N * A2 * A3 * !Y)	-0.00010	-0.00010	-0.00009
	(A1N * A2 * A3 * !Y)	0.00004	0.00004	0.00004
	(A1N * A2 * A3 * !Y)	0.00057	0.00060	0.00064
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	0.00140	0.00143	0.00147
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	-0.00010	-0.00010	-0.00009
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	0.00004	0.00004	0.00004
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	0.00057	0.00060	0.00064
	(!A1N * A3 * !Y)	0.00121	0.00124	0.00127
	(!A1N * A3 * !Y)	-0.00010	-0.00009	-0.00009
	(!A1N * A3 * !Y)	0.00004	0.00004	0.00004
	(!A1N * A3 * !Y)	0.00040	0.00043	0.00046
	(!A1N * A2 * !A3 * !Y)	0.00121	0.00124	0.00127
	(!A1N * A2 * !A3 * !Y)	-0.00010	-0.00009	-0.00009
	(!A1N * A2 * !A3 * !Y)	0.00004	0.00004	0.00004
	(!A1N * A2 * !A3 * !Y)	0.00040	0.00043	0.00046

Passive power(pJ) for A1N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX3H7H	(A2 * A3 * !Y)	0.00023	0.00026	0.00029
	(A2 * A3 * !Y)	0.00009	0.00009	0.00010
	(A2 * A3 * !Y)	-0.00004	-0.00004	-0.00004
	(A2 * A3 * !Y)	0.00111	0.00114	0.00117
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00024	0.00026	0.00029
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00009	0.00009	0.00010
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	-0.00004	-0.00004	-0.00004
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00111	0.00114	0.00117

Passive power(pJ) for A1N falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX3H7H	(A2 * A3 * !Y)	0.00140	0.00143	0.00148
	(A2 * A3 * !Y)	-0.00010	-0.00009	-0.00009
	(A2 * A3 * !Y)	0.00004	0.00004	0.00004
	(A2 * A3 * !Y)	0.00052	0.00054	0.00057
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00140	0.00144	0.00148
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	-0.00010	-0.00009	-0.00009
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00004	0.00004	0.00004
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00052	0.00054	0.00057

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX3H7H	(A0N * A1N * A3 * !Y)	-0.00036	-0.00032	-0.00027
	(A0N * A1N * A3 * !Y)	-0.00006	-0.00006	-0.00005
	(A0N * A1N * A3 * !Y)	0.00001	0.00001	0.00001
	(A0N * A1N * A3 * !Y)	0.00054	0.00055	0.00056
	(!A1N * A3 * !Y)	-0.00008	-0.00008	-0.00008
	(!A1N * A3 * !Y)	-0.00016	-0.00016	-0.00016
	(!A1N * A3 * !Y)	0.00001	0.00001	0.00003
	(!A1N * A3 * !Y)	0.00054	0.00056	0.00057
	(!A1N * !A3 * !Y)	-0.00008	-0.00008	-0.00008
	(!A1N * !A3 * !Y)	-0.00013	-0.00013	-0.00013
	(!A1N * !A3 * !Y)	0.00001	0.00001	0.00001
	(!A1N * !A3 * !Y)	0.00056	0.00056	0.00057
	(!A0N * A1N * A3 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0N * A1N * A3 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0N * A1N * A3 * !Y)	0.00001	0.00001	0.00001
	(!A0N * A1N * A3 * !Y)	0.00065	0.00066	0.00067
	(!A0N * A1N * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0N * A1N * !A3 * !Y)	-0.00013	-0.00013	-0.00012
	(!A0N * A1N * !A3 * !Y)	0.00001	0.00001	0.00001
	(!A0N * A1N * !A3 * !Y)	0.00063	0.00064	0.00064

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX3H7H	(A0N * A1N * A3 * !Y)	0.00036	0.00036	0.00036
	(A0N * A1N * A3 * !Y)	0.00005	0.00006	0.00006
	(A0N * A1N * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A0N * A1N * A3 * !Y)	-0.00054	-0.00054	-0.00053
	(!A1N * A3 * !Y)	0.00008	0.00008	0.00008
	(!A1N * A3 * !Y)	0.00016	0.00016	0.00016
	(!A1N * A3 * !Y)	-0.00002	-0.00001	-0.00000
	(!A1N * A3 * !Y)	-0.00057	-0.00056	-0.00054
	(!A1N * !A3 * !Y)	0.00008	0.00008	0.00008
	(!A1N * !A3 * !Y)	0.00013	0.00013	0.00013
	(!A1N * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1N * !A3 * !Y)	-0.00056	-0.00056	-0.00055
	(!A0N * A1N * A3 * !Y)	0.00003	0.00003	0.00003
	(!A0N * A1N * A3 * !Y)	0.00016	0.00016	0.00016
	(!A0N * A1N * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0N * A1N * A3 * !Y)	-0.00066	-0.00065	-0.00065
	(!A0N * A1N * !A3 * !Y)	0.00002	0.00002	0.00002
	(!A0N * A1N * !A3 * !Y)	0.00013	0.00014	0.00015
	(!A0N * A1N * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0N * A1N * !A3 * !Y)	-0.00064	-0.00064	-0.00063

Passive power(pJ) for A3 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX3H7H	(A2 * !Y)	-0.00002	-0.00002	-0.00002
	(A2 * !Y)	-0.00008	-0.00008	-0.00008
	(A2 * !Y)	0.00001	0.00001	0.00002
	(A2 * !Y)	0.00075	0.00076	0.00076
	(!A1N * !A2 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1N * !A2 * !Y)	-0.00008	-0.00008	-0.00008
	(!A1N * !A2 * !Y)	0.00001	0.00001	0.00001
	(!A1N * !A2 * !Y)	0.00076	0.00076	0.00076
	(!A0N * A1N * !A2 * !Y)	-0.00000	-0.00000	0.00000
	(!A0N * A1N * !A2 * !Y)	-0.00008	-0.00008	-0.00008
	(!A0N * A1N * !A2 * !Y)	0.00001	0.00001	0.00001
	(!A0N * A1N * !A2 * !Y)	0.00077	0.00077	0.00077

Passive power(pJ) for A3 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX3H7H	(A2 * !Y)	0.00002	0.00002	0.00002
	(A2 * !Y)	0.00008	0.00008	0.00008
	(A2 * !Y)	-0.00001	-0.00001	-0.00000
	(A2 * !Y)	-0.00076	-0.00076	-0.00075
	(!A1N * !A2 * !Y)	0.00002	0.00003	0.00003
	(!A1N * !A2 * !Y)	0.00008	0.00008	0.00008
	(!A1N * !A2 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1N * !A2 * !Y)	-0.00075	-0.00075	-0.00074
	(!A0N * A1N * !A2 * !Y)	0.00000	0.00001	0.00001
	(!A0N * A1N * !A2 * !Y)	0.00008	0.00009	0.00009
	(!A0N * A1N * !A2 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0N * A1N * !A2 * !Y)	-0.00077	-0.00077	-0.00077

NOR4BBX4H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

NOR4BB, In: AN, BN, C, D, Out: Y

Truth Table

INPUT				OUTPUT
A0N	A1N	A2	A3	Y
0	x	x	x	0
1	0	x	x	0
1	1	0	0	1
1	1	x	1	0
1	1	1	x	0

Footprint

Cell Name	Area
NOR4BBX4H7H	5.32000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0N	A1N	A2	A3	Y
NOR4BBX4H7H	0.00108	0.00112	0.00219	0.00233	0.02592

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR4BBX4H7H	0.00000	0.05699	0.20910

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4BBX4H7H	A0N->Y (RR)	0.12788	0.29477	0.70042
	A1N->Y (RR)	0.12520	0.29380	0.70456
	A2->Y (FR)	0.08594	0.25860	0.75291
	A3->Y (FR)	0.06622	0.23182	0.71114

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4BBX4H7H	A0N->Y (FF)	0.06006	0.14225	0.32609
	A1N->Y (FF)	0.06517	0.14908	0.33960
	A2->Y (RF)	0.01796	0.09134	0.34365
	A3->Y (RF)	0.01614	0.08618	0.33837

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4BBX4H7H	A0N	0.00420	0.00427	0.00436
	A0N	-0.00052	-0.00051	-0.00049
	A0N	0.00033	0.00033	0.00034
	A0N	0.00259	0.00266	0.00276
	A1N	0.00368	0.00376	0.00386
	A1N	-0.00040	-0.00037	-0.00023
	A1N	0.00033	0.00033	0.00033
	A1N	0.00231	0.00239	0.00249
	A2	0.00311	0.00317	0.00325
	A2	-0.00030	-0.00026	-0.00022
	A2	0.00036	0.00036	0.00037
	A2	0.00021	0.00027	0.00035
	A3	0.00235	0.00247	0.00259
	A3	-0.00009	-0.00009	-0.00007
	A3	0.00036	0.00036	0.00037
	A3	0.00008	0.00016	0.00028

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4BBX4H7H	A0N	0.00179	0.00186	0.00195
	A0N	0.00049	0.00051	0.00052
	A0N	-0.00033	-0.00033	-0.00033
	A0N	0.00307	0.00315	0.00325
	A1N	0.00196	0.00205	0.00224
	A1N	0.00023	0.00037	0.00040
	A1N	-0.00033	-0.00033	-0.00033
	A1N	0.00307	0.00317	0.00327
	A2	-0.00036	-0.00027	-0.00021
	A2	0.00022	0.00026	0.00031
	A2	-0.00037	-0.00036	-0.00036
	A2	0.00240	0.00249	0.00256
	A3	-0.00035	-0.00024	-0.00016
	A3	0.00007	0.00009	0.00011
	A3	-0.00037	-0.00036	-0.00035
	A3	0.00196	0.00205	0.00211

Passive power(pJ) for A0N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX4H7H	(A1N * A2 * A3 * !Y)	0.00015	0.00018	0.00022
	(A1N * A2 * A3 * !Y)	0.00011	0.00011	0.00012
	(A1N * A2 * A3 * !Y)	-0.00005	-0.00005	-0.00005
	(A1N * A2 * A3 * !Y)	0.00106	0.00109	0.00112
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	0.00015	0.00018	0.00022
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	0.00011	0.00011	0.00012
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	-0.00005	-0.00005	-0.00005
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	0.00106	0.00109	0.00112
	(!A1N * A3 * !Y)	0.00031	0.00033	0.00035
	(!A1N * A3 * !Y)	0.00011	0.00011	0.00012
	(!A1N * A3 * !Y)	-0.00005	-0.00005	-0.00005
	(!A1N * A3 * !Y)	0.00120	0.00122	0.00125
	(!A1N * A2 * !A3 * !Y)	0.00031	0.00033	0.00035
	(!A1N * A2 * !A3 * !Y)	0.00011	0.00011	0.00012
	(!A1N * A2 * !A3 * !Y)	-0.00005	-0.00005	-0.00005
	(!A1N * A2 * !A3 * !Y)	0.00120	0.00122	0.00125

Passive power(pJ) for A0N falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX4H7H	(A1N * A2 * A3 * !Y)	0.00149	0.00153	0.00158
	(A1N * A2 * A3 * !Y)	-0.00012	-0.00011	-0.00011
	(A1N * A2 * A3 * !Y)	0.00005	0.00005	0.00005
	(A1N * A2 * A3 * !Y)	0.00058	0.00061	0.00064
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	0.00149	0.00153	0.00158
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	-0.00012	-0.00011	-0.00011
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	0.00005	0.00005	0.00005
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	0.00058	0.00061	0.00065
	(!A1N * A3 * !Y)	0.00132	0.00135	0.00139
	(!A1N * A3 * !Y)	-0.00012	-0.00011	-0.00011
	(!A1N * A3 * !Y)	0.00005	0.00005	0.00005
	(!A1N * A3 * !Y)	0.00042	0.00045	0.00049
	(!A1N * A2 * !A3 * !Y)	0.00132	0.00135	0.00138
	(!A1N * A2 * !A3 * !Y)	-0.00012	-0.00011	-0.00011
	(!A1N * A2 * !A3 * !Y)	0.00005	0.00005	0.00005
	(!A1N * A2 * !A3 * !Y)	0.00042	0.00045	0.00049

Passive power(pJ) for A1N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX4H7H	(A2 * A3 * !Y)	0.00030	0.00033	0.00037
	(A2 * A3 * !Y)	0.00011	0.00012	0.00012
	(A2 * A3 * !Y)	-0.00005	-0.00005	-0.00005
	(A2 * A3 * !Y)	0.00128	0.00130	0.00134
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00031	0.00034	0.00037
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00011	0.00012	0.00012
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	-0.00005	-0.00005	-0.00005
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00128	0.00131	0.00134

Passive power(pJ) for A1N falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX4H7H	(A2 * A3 * !Y)	0.00152	0.00156	0.00161
	(A2 * A3 * !Y)	-0.00012	-0.00012	-0.00011
	(A2 * A3 * !Y)	0.00005	0.00005	0.00005
	(A2 * A3 * !Y)	0.00053	0.00056	0.00060
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00152	0.00156	0.00161
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	-0.00012	-0.00012	-0.00011
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00005	0.00005	0.00005
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00053	0.00056	0.00060

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX4H7H	(A0N * A1N * A3 * !Y)	-0.00043	-0.00038	-0.00031
	(A0N * A1N * A3 * !Y)	-0.00007	-0.00007	-0.00007
	(A0N * A1N * A3 * !Y)	0.00001	0.00002	0.00002
	(A0N * A1N * A3 * !Y)	0.00060	0.00061	0.00063
	(!A1N * A3 * !Y)	-0.00009	-0.00009	-0.00009
	(!A1N * A3 * !Y)	-0.00020	-0.00020	-0.00020
	(!A1N * A3 * !Y)	0.00001	0.00002	0.00003
	(!A1N * A3 * !Y)	0.00061	0.00063	0.00063
	(!A1N * !A3 * !Y)	-0.00009	-0.00009	-0.00009
	(!A1N * !A3 * !Y)	-0.00017	-0.00016	-0.00016
	(!A1N * !A3 * !Y)	0.00001	0.00002	0.00002
	(!A1N * !A3 * !Y)	0.00062	0.00063	0.00063
	(!A0N * A1N * A3 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0N * A1N * A3 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0N * A1N * A3 * !Y)	0.00001	0.00002	0.00002
	(!A0N * A1N * A3 * !Y)	0.00073	0.00074	0.00075
	(!A0N * A1N * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0N * A1N * !A3 * !Y)	-0.00017	-0.00017	-0.00016
	(!A0N * A1N * !A3 * !Y)	0.00001	0.00002	0.00002
	(!A0N * A1N * !A3 * !Y)	0.00071	0.00071	0.00071

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX4H7H	(A0N * A1N * A3 * !Y)	0.00043	0.00043	0.00043
	(A0N * A1N * A3 * !Y)	0.00007	0.00007	0.00007
	(A0N * A1N * A3 * !Y)	-0.00002	-0.00002	-0.00001
	(A0N * A1N * A3 * !Y)	-0.00061	-0.00060	-0.00060
	(!A1N * A3 * !Y)	0.00009	0.00009	0.00009
	(!A1N * A3 * !Y)	0.00020	0.00020	0.00020
	(!A1N * A3 * !Y)	-0.00003	-0.00002	-0.00001
	(!A1N * A3 * !Y)	-0.00063	-0.00062	-0.00061
	(!A1N * !A3 * !Y)	0.00009	0.00009	0.00009
	(!A1N * !A3 * !Y)	0.00017	0.00017	0.00017
	(!A1N * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1N * !A3 * !Y)	-0.00063	-0.00062	-0.00062
	(!A0N * A1N * A3 * !Y)	0.00003	0.00003	0.00003
	(!A0N * A1N * A3 * !Y)	0.00020	0.00020	0.00020
	(!A0N * A1N * A3 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0N * A1N * A3 * !Y)	-0.00074	-0.00073	-0.00072
	(!A0N * A1N * !A3 * !Y)	0.00002	0.00002	0.00003
	(!A0N * A1N * !A3 * !Y)	0.00017	0.00017	0.00018
	(!A0N * A1N * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0N * A1N * !A3 * !Y)	-0.00071	-0.00071	-0.00070

Passive power(pJ) for A3 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX4H7H	(A2 * !Y)	-0.00002	-0.00002	-0.00002
	(A2 * !Y)	-0.00010	-0.00010	-0.00010
	(A2 * !Y)	0.00001	0.00001	0.00002
	(A2 * !Y)	0.00085	0.00085	0.00086
	(!A1N * !A2 * !Y)	-0.00002	-0.00001	-0.00001
	(!A1N * !A2 * !Y)	-0.00010	-0.00010	-0.00009
	(!A1N * !A2 * !Y)	0.00001	0.00002	0.00002
	(!A1N * !A2 * !Y)	0.00085	0.00085	0.00086
	(!A0N * A1N * !A2 * !Y)	-0.00000	-0.00000	0.00000
	(!A0N * A1N * !A2 * !Y)	-0.00010	-0.00010	-0.00010
	(!A0N * A1N * !A2 * !Y)	0.00001	0.00002	0.00002
	(!A0N * A1N * !A2 * !Y)	0.00086	0.00086	0.00086

Passive power(pJ) for A3 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX4H7H	(A2 * !Y)	0.00002	0.00002	0.00002
	(A2 * !Y)	0.00010	0.00011	0.00011
	(A2 * !Y)	-0.00002	-0.00001	-0.00001
	(A2 * !Y)	-0.00086	-0.00085	-0.00083
	(!A1N * !A2 * !Y)	0.00002	0.00003	0.00003
	(!A1N * !A2 * !Y)	0.00011	0.00011	0.00013
	(!A1N * !A2 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1N * !A2 * !Y)	-0.00085	-0.00085	-0.00084
	(!A0N * A1N * !A2 * !Y)	0.00000	0.00001	0.00001
	(!A0N * A1N * !A2 * !Y)	0.00010	0.00011	0.00012
	(!A0N * A1N * !A2 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0N * A1N * !A2 * !Y)	-0.00086	-0.00086	-0.00086

NOR4BX0P5H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

NOR4B, In: AN, B, C, D, Out: Y

Truth Table

INPUT				OUTPUT
A0N	A1	A2	A3	Y
0	x	x	x	0
1	0	0	0	1
1	0	x	1	0
1	x	1	x	0
1	1	x	x	0

Footprint

Cell Name	Area
NOR4BX0P5H7H	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0N	A1	A2	A3	Y
NOR4BX0P5H7H	0.00098	0.00079	0.00087	0.00087	0.00696

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR4BX0P5H7H	0.00000	0.01324	0.02025

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4BX0P5H7H	A0N->Y (RR)	0.15418	0.29749	0.64413
	A1->Y (FR)	0.12832	0.28388	0.71518
	A2->Y (FR)	0.12497	0.28254	0.72993
	A3->Y (FR)	0.11131	0.26314	0.69986

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4BX0P5H7H	A0N->Y (FF)	0.05981	0.13123	0.28610
	A1->Y (RF)	0.02465	0.09774	0.32875
	A2->Y (RF)	0.02443	0.09580	0.32568
	A3->Y (RF)	0.02285	0.09246	0.32140

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4BX0P5H7H	A0N	0.00119	0.00123	0.00128
	A0N	-0.00012	-0.00012	-0.00012
	A0N	0.00007	0.00007	0.00008
	A0N	0.00107	0.00111	0.00116
	A1	0.00117	0.00119	0.00122
	A1	-0.00011	-0.00011	-0.00010
	A1	0.00009	0.00010	0.00010
	A1	-0.00002	0.00000	0.00003
	A2	0.00105	0.00108	0.00111
	A2	-0.00007	-0.00006	-0.00006
	A2	0.00010	0.00010	0.00010
	A2	-0.00001	0.00002	0.00005
	A3	0.00090	0.00093	0.00098
	A3	-0.00002	-0.00002	0.00000
	A3	0.00009	0.00010	0.00010
	A3	-0.00003	-0.00000	0.00004

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4BX0P5H7H	A0N	0.00101	0.00104	0.00108
	A0N	0.00012	0.00012	0.00012
	A0N	-0.00008	-0.00007	-0.00007
	A0N	0.00104	0.00108	0.00112
	A1	-0.00010	-0.00008	-0.00006
	A1	0.00010	0.00011	0.00011
	A1	-0.00010	-0.00010	-0.00009
	A1	0.00103	0.00105	0.00107
	A2	-0.00010	-0.00007	-0.00005
	A2	0.00006	0.00006	0.00007
	A2	-0.00010	-0.00010	-0.00010
	A2	0.00094	0.00096	0.00098
	A3	-0.00010	-0.00006	0.00016
	A3	0.00000	0.00002	0.00002
	A3	-0.00010	-0.00010	-0.00009
	A3	0.00084	0.00087	0.00090

Passive power(pJ) for A0N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX0P5H7H	(A1 * A3 * !Y)	-0.00005	-0.00003	0.00001
	(A1 * A3 * !Y)	0.00004	0.00004	0.00004
	(A1 * A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * A3 * !Y)	0.00076	0.00078	0.00081
	(A1 * A2 * !A3 * !Y)	-0.00005	-0.00003	0.00001
	(A1 * A2 * !A3 * !Y)	0.00004	0.00004	0.00004
	(A1 * A2 * !A3 * !Y)	-0.00002	-0.00003	-0.00002
	(A1 * A2 * !A3 * !Y)	0.00076	0.00078	0.00081
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	-0.00005	-0.00002	0.00001
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	0.00004	0.00004	0.00004
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	-0.00002	-0.00003	-0.00002
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	0.00076	0.00078	0.00081
	(!A1 * A2 * A3 * !Y)	-0.00005	-0.00003	-0.00000
	(!A1 * A2 * A3 * !Y)	0.00004	0.00004	0.00004
	(!A1 * A2 * A3 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * A3 * !Y)	0.00076	0.00078	0.00081

Passive power(pJ) for A0N falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX0P5H7H	(A1 * A3 * !Y)	0.00090	0.00092	0.00095
	(A1 * A3 * !Y)	-0.00004	-0.00004	-0.00004
	(A1 * A3 * !Y)	0.00002	0.00002	0.00003
	(A1 * A3 * !Y)	0.00009	0.00011	0.00015
	(A1 * A2 * !A3 * !Y)	0.00090	0.00092	0.00095
	(A1 * A2 * !A3 * !Y)	-0.00004	-0.00004	-0.00004
	(A1 * A2 * !A3 * !Y)	0.00002	0.00003	0.00003
	(A1 * A2 * !A3 * !Y)	0.00009	0.00011	0.00015
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	0.00090	0.00092	0.00095
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	-0.00004	-0.00004	-0.00004
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	0.00002	0.00003	0.00003
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	0.00009	0.00011	0.00014
	(!A1 * A2 * A3 * !Y)	0.00090	0.00093	0.00097
	(!A1 * A2 * A3 * !Y)	-0.00004	-0.00004	-0.00004
	(!A1 * A2 * A3 * !Y)	0.00002	0.00003	0.00003
	(!A1 * A2 * A3 * !Y)	0.00009	0.00011	0.00014

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX0P5H7H	(A0N * A2 * A3 * !Y)	-0.00010	-0.00009	-0.00007
	(A0N * A2 * A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A0N * A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0N * A2 * A3 * !Y)	0.00028	0.00028	0.00028
	(A0N * A2 * !A3 * !Y)	-0.00010	-0.00009	-0.00007
	(A0N * A2 * !A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A0N * A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A0N * A2 * !A3 * !Y)	0.00028	0.00028	0.00028
	(A0N * !A2 * A3 * !Y)	-0.00009	-0.00008	-0.00006
	(A0N * !A2 * A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A0N * !A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0N * !A2 * A3 * !Y)	0.00028	0.00028	0.00028
	(!A0N * A2 * A3 * !Y)	-0.00005	-0.00005	-0.00004
	(!A0N * A2 * A3 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0N * A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(!A0N * A2 * A3 * !Y)	0.00025	0.00025	0.00025
	(!A0N * A2 * !A3 * !Y)	-0.00005	-0.00005	-0.00004
	(!A0N * A2 * !A3 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0N * A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(!A0N * A2 * !A3 * !Y)	0.00025	0.00025	0.00025
	(!A0N * !A2 * A3 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0N * !A2 * A3 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0N * !A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(!A0N * !A2 * A3 * !Y)	0.00025	0.00025	0.00025
	(!A0N * !A2 * !A3 * !Y)	-0.00005	-0.00005	-0.00004
	(!A0N * !A2 * !A3 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0N * !A2 * !A3 * !Y)	0.00000	0.00000	0.00001
	(!A0N * !A2 * !A3 * !Y)	0.00025	0.00025	0.00025

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX0P5H7H	(A0N * A2 * A3 * !Y)	0.00009	0.00010	0.00010
	(A0N * A2 * A3 * !Y)	0.00002	0.00002	0.00002
	(A0N * A2 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0N * A2 * A3 * !Y)	-0.00028	-0.00028	-0.00028
	(A0N * A2 * !A3 * !Y)	0.00010	0.00010	0.00010
	(A0N * A2 * !A3 * !Y)	0.00002	0.00002	0.00002
	(A0N * A2 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0N * A2 * !A3 * !Y)	-0.00028	-0.00028	-0.00028
	(A0N * !A2 * A3 * !Y)	0.00009	0.00009	0.00009
	(A0N * !A2 * A3 * !Y)	0.00002	0.00002	0.00002
	(A0N * !A2 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0N * !A2 * A3 * !Y)	-0.00028	-0.00028	-0.00028
	(!A0N * A2 * A3 * !Y)	0.00004	0.00005	0.00005
	(!A0N * A2 * A3 * !Y)	0.00006	0.00006	0.00006
	(!A0N * A2 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0N * A2 * A3 * !Y)	-0.00025	-0.00025	-0.00025
	(!A0N * A2 * !A3 * !Y)	0.00004	0.00005	0.00005
	(!A0N * A2 * !A3 * !Y)	0.00006	0.00006	0.00006
	(!A0N * A2 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0N * A2 * !A3 * !Y)	-0.00025	-0.00025	-0.00025
	(!A0N * !A2 * A3 * !Y)	0.00004	0.00004	0.00004
	(!A0N * !A2 * A3 * !Y)	0.00006	0.00006	0.00006
	(!A0N * !A2 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0N * !A2 * A3 * !Y)	-0.00025	-0.00025	-0.00025
	(!A0N * !A2 * !A3 * !Y)	0.00004	0.00005	0.00005
	(!A0N * !A2 * !A3 * !Y)	0.00005	0.00005	0.00005
	(!A0N * !A2 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0N * !A2 * !A3 * !Y)	-0.00025	-0.00025	-0.00025

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX0P5H7H	(A1 * A3 * !Y)	-0.00000	0.00000	0.00000
	(A1 * A3 * !Y)	-0.00005	-0.00005	-0.00005
	(A1 * A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * A3 * !Y)	0.00030	0.00030	0.00030
	(A1 * !A3 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * !A3 * !Y)	-0.00005	-0.00005	-0.00004
	(A1 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A3 * !Y)	0.00030	0.00030	0.00030
	(A0N * !A1 * A3 * !Y)	-0.00009	-0.00008	-0.00007
	(A0N * !A1 * A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A0N * !A1 * A3 * !Y)	0.00000	0.00000	0.00001
	(A0N * !A1 * A3 * !Y)	0.00029	0.00030	0.00030
	(!A0N * !A1 * A3 * !Y)	-0.00001	-0.00002	-0.00001
	(!A0N * !A1 * A3 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0N * !A1 * A3 * !Y)	0.00000	0.00000	0.00000
	(!A0N * !A1 * A3 * !Y)	0.00029	0.00029	0.00029
	(!A0N * !A1 * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0N * !A1 * !A3 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0N * !A1 * !A3 * !Y)	0.00000	0.00000	0.00000
	(!A0N * !A1 * !A3 * !Y)	0.00029	0.00029	0.00029

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX0P5H7H	(A1 * A3 * !Y)	-0.00000	0.00000	0.00000
	(A1 * A3 * !Y)	0.00005	0.00005	0.00005
	(A1 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * A3 * !Y)	-0.00030	-0.00030	-0.00029
	(A1 * !A3 * !Y)	-0.00000	0.00000	0.00000
	(A1 * !A3 * !Y)	0.00005	0.00005	0.00005
	(A1 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A3 * !Y)	-0.00030	-0.00030	-0.00029
	(A0N * !A1 * A3 * !Y)	0.00009	0.00009	0.00009
	(A0N * !A1 * A3 * !Y)	0.00002	0.00002	0.00002
	(A0N * !A1 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0N * !A1 * A3 * !Y)	-0.00029	-0.00029	-0.00029
	(!A0N * !A1 * A3 * !Y)	0.00001	0.00002	0.00001
	(!A0N * !A1 * A3 * !Y)	0.00005	0.00005	0.00005
	(!A0N * !A1 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0N * !A1 * A3 * !Y)	-0.00029	-0.00029	-0.00028
	(!A0N * !A1 * !A3 * !Y)	0.00001	0.00001	0.00001
	(!A0N * !A1 * !A3 * !Y)	0.00004	0.00005	0.00005
	(!A0N * !A1 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0N * !A1 * !A3 * !Y)	-0.00029	-0.00029	-0.00028

Passive power(pJ) for A3 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX0P5H7H	(A2 * !Y)	-0.00000	-0.00000	0.00000
	(A2 * !Y)	-0.00003	-0.00003	-0.00003
	(A2 * !Y)	0.00000	0.00000	0.00000
	(A2 * !Y)	0.00035	0.00035	0.00035
	(A1 * !A2 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * !A2 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !Y)	0.00035	0.00035	0.00035
	(!A0N * !A1 * !A2 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0N * !A1 * !A2 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0N * !A1 * !A2 * !Y)	0.00000	0.00000	0.00000
	(!A0N * !A1 * !A2 * !Y)	0.00035	0.00035	0.00035

Passive power(pJ) for A3 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX0P5H7H	(A2 * !Y)	0.00000	0.00000	0.00000
	(A2 * !Y)	0.00003	0.00003	0.00003
	(A2 * !Y)	-0.00000	-0.00000	0.00000
	(A2 * !Y)	-0.00035	-0.00035	-0.00035
	(A1 * !A2 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !Y)	0.00003	0.00003	0.00003
	(A1 * !A2 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * !A2 * !Y)	-0.00035	-0.00035	-0.00035
	(!A0N * !A1 * !A2 * !Y)	0.00000	0.00000	0.00000
	(!A0N * !A1 * !A2 * !Y)	0.00003	0.00003	0.00003
	(!A0N * !A1 * !A2 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0N * !A1 * !A2 * !Y)	-0.00035	-0.00035	-0.00035

NOR4BX0P7H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

NOR4B, In: AN, B, C, D, Out: Y

Truth Table

INPUT				OUTPUT
A0N	A1	A2	A3	Y
0	x	x	x	0
1	0	0	0	1
1	0	x	1	0
1	x	1	x	0
1	1	x	x	0

Footprint

Cell Name	Area
NOR4BX0P7H7H	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0N	A1	A2	A3	Y
NOR4BX0P7H7H	0.00099	0.00083	0.00091	0.00092	0.00819

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR4BX0P7H7H	0.00000	0.01418	0.02846

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4BX0P7H7H	A0N->Y (RR)	0.14595	0.29504	0.65641
	A1->Y (FR)	0.11954	0.28044	0.72700
	A2->Y (FR)	0.11539	0.27835	0.74223
	A3->Y (FR)	0.10167	0.25866	0.70893

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4BX0P7H7H	A0N->Y (FF)	0.05955	0.13263	0.29196
	A1->Y (RF)	0.02329	0.09766	0.33597
	A2->Y (RF)	0.02296	0.09552	0.33315
	A3->Y (RF)	0.02144	0.09210	0.32901

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4BX0P7H7H	A0N	0.00130	0.00134	0.00139
	A0N	-0.00016	-0.00014	-0.00014
	A0N	0.00009	0.00009	0.00009
	A0N	0.00110	0.00114	0.00119
	A1	0.00126	0.00129	0.00132
	A1	-0.00012	-0.00012	-0.00011
	A1	0.00011	0.00011	0.00011
	A1	-0.00002	0.00000	0.00003
	A2	0.00112	0.00115	0.00119
	A2	-0.00008	-0.00007	-0.00007
	A2	0.00011	0.00011	0.00011
	A2	-0.00002	0.00001	0.00005
	A3	0.00095	0.00099	0.00103
	A3	-0.00002	-0.00002	-0.00001
	A3	0.00011	0.00011	0.00011
	A3	-0.00004	-0.00001	0.00004

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4BX0P7H7H	**A0N**	0.00104	0.00107	0.00111
	A0N	0.00014	0.00014	0.00016
	A0N	-0.00009	-0.00009	-0.00009
	A0N	0.00113	0.00117	0.00122
	A1	-0.00011	-0.00009	-0.00007
	A1	0.00011	0.00012	0.00012
	A1	-0.00011	-0.00011	-0.00011
	A1	0.00110	0.00113	0.00115
	A2	-0.00011	-0.00008	-0.00006
	A2	0.00007	0.00007	0.00008
	A2	-0.00011	-0.00011	-0.00011
	A2	0.00100	0.00102	0.00104
	A3	-0.00011	-0.00007	-0.00005
	A3	0.00001	0.00002	0.00003
	A3	-0.00011	-0.00011	-0.00011
	A3	0.00089	0.00092	0.00094

Passive power(pJ) for A0N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX0P7H7H	(A1 * A3 * !Y)	-0.00004	-0.00002	0.00001
	(A1 * A3 * !Y)	0.00004	0.00004	0.00005
	(A1 * A3 * !Y)	-0.00003	-0.00003	-0.00002
	(A1 * A3 * !Y)	0.00078	0.00080	0.00083
	(A1 * A2 * !A3 * !Y)	-0.00004	-0.00002	0.00002
	(A1 * A2 * !A3 * !Y)	0.00004	0.00004	0.00005
	(A1 * A2 * !A3 * !Y)	-0.00003	-0.00003	-0.00002
	(A1 * A2 * !A3 * !Y)	0.00078	0.00080	0.00084
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	-0.00004	-0.00001	0.00003
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	0.00004	0.00004	0.00005
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	-0.00003	-0.00003	-0.00002
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	0.00078	0.00080	0.00084
	(!A1 * A2 * A3 * !Y)	-0.00004	-0.00002	0.00001
	(!A1 * A2 * A3 * !Y)	0.00004	0.00005	0.00005
	(!A1 * A2 * A3 * !Y)	-0.00003	-0.00003	-0.00002
	(!A1 * A2 * A3 * !Y)	0.00078	0.00081	0.00084

Passive power(pJ) for A0N falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX0P7H7H	(A1 * A3 * !Y)	0.00091	0.00094	0.00097
	(A1 * A3 * !Y)	-0.00005	-0.00004	-0.00004
	(A1 * A3 * !Y)	0.00002	0.00003	0.00003
	(A1 * A3 * !Y)	0.00009	0.00012	0.00015
	(A1 * A2 * !A3 * !Y)	0.00091	0.00094	0.00097
	(A1 * A2 * !A3 * !Y)	-0.00005	-0.00004	-0.00004
	(A1 * A2 * !A3 * !Y)	0.00002	0.00003	0.00003
	(A1 * A2 * !A3 * !Y)	0.00009	0.00012	0.00015
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	0.00091	0.00094	0.00097
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	-0.00005	-0.00004	-0.00004
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	0.00002	0.00003	0.00003
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	0.00009	0.00012	0.00015
	(!A1 * A2 * A3 * !Y)	0.00092	0.00095	0.00099
	(!A1 * A2 * A3 * !Y)	-0.00005	-0.00005	-0.00004
	(!A1 * A2 * A3 * !Y)	0.00002	0.00003	0.00003
	(!A1 * A2 * A3 * !Y)	0.00009	0.00012	0.00015

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX0P7H7H	(A0N * A2 * A3 * !Y)	-0.00011	-0.00010	-0.00008
	(A0N * A2 * A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A0N * A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0N * A2 * A3 * !Y)	0.00029	0.00029	0.00029
	(A0N * A2 * !A3 * !Y)	-0.00011	-0.00010	-0.00008
	(A0N * A2 * !A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A0N * A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A0N * A2 * !A3 * !Y)	0.00028	0.00029	0.00029
	(A0N * !A2 * A3 * !Y)	-0.00010	-0.00009	-0.00007
	(A0N * !A2 * A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A0N * !A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0N * !A2 * A3 * !Y)	0.00029	0.00029	0.00029
	(!A0N * A2 * A3 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0N * A2 * A3 * !Y)	-0.00007	-0.00006	-0.00006
	(!A0N * A2 * A3 * !Y)	0.00000	0.00000	0.00001
	(!A0N * A2 * A3 * !Y)	0.00025	0.00026	0.00026
	(!A0N * A2 * !A3 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0N * A2 * !A3 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0N * A2 * !A3 * !Y)	0.00000	0.00000	0.00001
	(!A0N * A2 * !A3 * !Y)	0.00025	0.00026	0.00026
	(!A0N * !A2 * A3 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0N * !A2 * A3 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0N * !A2 * A3 * !Y)	0.00000	0.00000	0.00001
	(!A0N * !A2 * A3 * !Y)	0.00025	0.00026	0.00026
	(!A0N * !A2 * !A3 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0N * !A2 * !A3 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0N * !A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(!A0N * !A2 * !A3 * !Y)	0.00026	0.00026	0.00026

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX0P7H7H	(A0N * A2 * A3 * !Y)	0.00011	0.00011	0.00011
	(A0N * A2 * A3 * !Y)	0.00002	0.00002	0.00002
	(A0N * A2 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0N * A2 * A3 * !Y)	-0.00029	-0.00029	-0.00028
	(A0N * A2 * !A3 * !Y)	0.00011	0.00011	0.00011
	(A0N * A2 * !A3 * !Y)	0.00002	0.00002	0.00002
	(A0N * A2 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0N * A2 * !A3 * !Y)	-0.00029	-0.00029	-0.00028
	(A0N * !A2 * A3 * !Y)	0.00010	0.00010	0.00010
	(A0N * !A2 * A3 * !Y)	0.00002	0.00002	0.00002
	(A0N * !A2 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0N * !A2 * A3 * !Y)	-0.00029	-0.00029	-0.00029
	(!A0N * A2 * A3 * !Y)	0.00005	0.00005	0.00005
	(!A0N * A2 * A3 * !Y)	0.00006	0.00006	0.00007
	(!A0N * A2 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0N * A2 * A3 * !Y)	-0.00026	-0.00026	-0.00025
	(!A0N * A2 * !A3 * !Y)	0.00005	0.00005	0.00005
	(!A0N * A2 * !A3 * !Y)	0.00006	0.00006	0.00006
	(!A0N * A2 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0N * A2 * !A3 * !Y)	-0.00026	-0.00026	-0.00025
	(!A0N * !A2 * A3 * !Y)	0.00004	0.00004	0.00004
	(!A0N * !A2 * A3 * !Y)	0.00006	0.00006	0.00006
	(!A0N * !A2 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0N * !A2 * A3 * !Y)	-0.00026	-0.00026	-0.00025
	(!A0N * !A2 * !A3 * !Y)	0.00005	0.00005	0.00005
	(!A0N * !A2 * !A3 * !Y)	0.00005	0.00006	0.00006
	(!A0N * !A2 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0N * !A2 * !A3 * !Y)	-0.00026	-0.00026	-0.00025

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX0P7H7H	(A1 * A3 * !Y)	-0.00000	0.00000	0.00000
	(A1 * A3 * !Y)	-0.00006	-0.00006	-0.00006
	(A1 * A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * A3 * !Y)	0.00031	0.00031	0.00031
	(A1 * !A3 * !Y)	-0.00000	0.00000	0.00000
	(A1 * !A3 * !Y)	-0.00005	-0.00005	-0.00005
	(A1 * !A3 * !Y)	0.00000	0.00000	0.00001
	(A1 * !A3 * !Y)	0.00031	0.00031	0.00031
	(A0N * !A1 * A3 * !Y)	-0.00010	-0.00009	-0.00007
	(A0N * !A1 * A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A0N * !A1 * A3 * !Y)	0.00000	0.00001	0.00001
	(A0N * !A1 * A3 * !Y)	0.00030	0.00030	0.00031
	(!A0N * !A1 * A3 * !Y)	-0.00001	-0.00002	-0.00001
	(!A0N * !A1 * A3 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0N * !A1 * A3 * !Y)	0.00000	0.00000	0.00001
	(!A0N * !A1 * A3 * !Y)	0.00030	0.00030	0.00030
	(!A0N * !A1 * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0N * !A1 * !A3 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0N * !A1 * !A3 * !Y)	0.00000	0.00000	0.00000
	(!A0N * !A1 * !A3 * !Y)	0.00029	0.00030	0.00030

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX0P7H7H	(A1 * A3 * !Y)	-0.00000	0.00000	0.00000
	(A1 * A3 * !Y)	0.00006	0.00006	0.00006
	(A1 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * A3 * !Y)	-0.00031	-0.00030	-0.00030
	(A1 * !A3 * !Y)	-0.00000	0.00000	0.00000
	(A1 * !A3 * !Y)	0.00005	0.00005	0.00005
	(A1 * !A3 * !Y)	-0.00001	-0.00000	-0.00000
	(A1 * !A3 * !Y)	-0.00031	-0.00030	-0.00030
	(A0N * !A1 * A3 * !Y)	0.00010	0.00010	0.00010
	(A0N * !A1 * A3 * !Y)	0.00002	0.00002	0.00002
	(A0N * !A1 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0N * !A1 * A3 * !Y)	-0.00030	-0.00030	-0.00030
	(!A0N * !A1 * A3 * !Y)	0.00001	0.00002	0.00001
	(!A0N * !A1 * A3 * !Y)	0.00006	0.00006	0.00006
	(!A0N * !A1 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0N * !A1 * A3 * !Y)	-0.00030	-0.00030	-0.00030
	(!A0N * !A1 * !A3 * !Y)	0.00001	0.00001	0.00001
	(!A0N * !A1 * !A3 * !Y)	0.00005	0.00005	0.00005
	(!A0N * !A1 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0N * !A1 * !A3 * !Y)	-0.00030	-0.00029	-0.00029

Passive power(pJ) for A3 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX0P7H7H	(A2 * !Y)	-0.00000	-0.00000	0.00000
	(A2 * !Y)	-0.00003	-0.00003	-0.00003
	(A2 * !Y)	0.00000	0.00000	0.00001
	(A2 * !Y)	0.00037	0.00037	0.00037
	(A1 * !A2 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * !A2 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !Y)	0.00036	0.00037	0.00037
	(!A0N * !A1 * !A2 * !Y)	-0.00000	-0.00000	0.00000
	(!A0N * !A1 * !A2 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0N * !A1 * !A2 * !Y)	0.00000	0.00000	0.00001
	(!A0N * !A1 * !A2 * !Y)	0.00037	0.00037	0.00037

Passive power(pJ) for A3 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX0P7H7H	(A2 * !Y)	0.00000	0.00000	0.00000
	(A2 * !Y)	0.00003	0.00003	0.00003
	(A2 * !Y)	-0.00001	-0.00000	-0.00000
	(A2 * !Y)	-0.00037	-0.00037	-0.00036
	(A1 * !A2 * !Y)	-0.00000	0.00000	0.00000
	(A1 * !A2 * !Y)	0.00003	0.00003	0.00003
	(A1 * !A2 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * !Y)	-0.00037	-0.00037	-0.00036
	(!A0N * !A1 * !A2 * !Y)	0.00000	0.00000	0.00001
	(!A0N * !A1 * !A2 * !Y)	0.00003	0.00003	0.00004
	(!A0N * !A1 * !A2 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0N * !A1 * !A2 * !Y)	-0.00037	-0.00037	-0.00037

NOR4BX1H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

NOR4B, In: AN, B, C, D, Out: Y

Truth Table

INPUT				OUTPUT
A0N	A1	A2	A3	Y
0	x	x	x	0
1	0	0	0	1
1	0	x	1	0
1	x	1	x	0
1	1	x	x	0

Footprint

Cell Name	Area
NOR4BX1H7H	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0N	A1	A2	A3	Y
NOR4BX1H7H	0.00100	0.00090	0.00096	0.00100	0.00968

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR4BX1H7H	0.00000	0.01612	0.04605

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4BX1H7H	A0N->Y (RR)	0.13621	0.28701	0.65224
	A1->Y (FR)	0.10897	0.27078	0.72067
	A2->Y (FR)	0.10341	0.26729	0.73560
	A3->Y (FR)	0.09064	0.24833	0.70346

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4BX1H7H	A0N->Y (FF)	0.06007	0.13488	0.29923
	A1->Y (RF)	0.02214	0.09764	0.34235
	A2->Y (RF)	0.02160	0.09515	0.33906
	A3->Y (RF)	0.02026	0.09171	0.33545

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4BX1H7H	A0N	0.00147	0.00152	0.00157
	A0N	-0.00019	-0.00018	-0.00017
	A0N	0.00011	0.00011	0.00011
	A0N	0.00114	0.00118	0.00124
	A1	0.00141	0.00144	0.00147
	A1	-0.00015	-0.00015	-0.00015
	A1	0.00013	0.00013	0.00013
	A1	-0.00003	-0.00000	0.00003
	A2	0.00123	0.00126	0.00130
	A2	-0.00010	-0.00009	-0.00007
	A2	0.00013	0.00013	0.00013
	A2	-0.00002	0.00001	0.00005
	A3	0.00104	0.00108	0.00113
	A3	-0.00003	-0.00003	-0.00002
	A3	0.00013	0.00013	0.00013
	A3	-0.00004	-0.00001	0.00004

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4BX1H7H	**A0N**	0.00107	0.00111	0.00116
	A0N	0.00017	0.00018	0.00019
	A0N	-0.00011	-0.00011	-0.00011
	A0N	0.00128	0.00132	0.00137
	A1	-0.00012	-0.00010	-0.00008
	A1	0.00015	0.00015	0.00015
	A1	-0.00013	-0.00013	-0.00013
	A1	0.00123	0.00126	0.00128
	A2	-0.00013	-0.00009	-0.00007
	A2	0.00007	0.00009	0.00010
	A2	-0.00013	-0.00013	-0.00013
	A2	0.00108	0.00112	0.00114
	A3	-0.00013	-0.00009	-0.00005
	A3	0.00002	0.00003	0.00003
	A3	-0.00013	-0.00013	-0.00013
	A3	0.00096	0.00099	0.00102

Passive power(pJ) for A0N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX1H7H	(A1 * A3 * !Y)	-0.00002	0.00000	0.00004
	(A1 * A3 * !Y)	0.00005	0.00005	0.00005
	(A1 * A3 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * A3 * !Y)	0.00081	0.00083	0.00087
	(A1 * A2 * !A3 * !Y)	-0.00002	0.00000	0.00005
	(A1 * A2 * !A3 * !Y)	0.00004	0.00005	0.00005
	(A1 * A2 * !A3 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * A2 * !A3 * !Y)	0.00081	0.00083	0.00087
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	-0.00002	0.00001	0.00005
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	0.00004	0.00005	0.00005
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	0.00081	0.00083	0.00087
	(!A1 * A2 * A3 * !Y)	-0.00003	-0.00000	0.00003
	(!A1 * A2 * A3 * !Y)	0.00005	0.00005	0.00005
	(!A1 * A2 * A3 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1 * A2 * A3 * !Y)	0.00081	0.00083	0.00087

Passive power(pJ) for A0N falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX1H7H	(A1 * A3 * !Y)	0.00094	0.00097	0.00100
	(A1 * A3 * !Y)	-0.00005	-0.00005	-0.00005
	(A1 * A3 * !Y)	0.00003	0.00003	0.00003
	(A1 * A3 * !Y)	0.00011	0.00013	0.00017
	(A1 * A2 * !A3 * !Y)	0.00094	0.00097	0.00100
	(A1 * A2 * !A3 * !Y)	-0.00005	-0.00005	-0.00004
	(A1 * A2 * !A3 * !Y)	0.00003	0.00003	0.00003
	(A1 * A2 * !A3 * !Y)	0.00011	0.00013	0.00017
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	0.00094	0.00097	0.00100
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	-0.00005	-0.00005	-0.00004
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	0.00003	0.00003	0.00003
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	0.00011	0.00014	0.00017
	(!A1 * A2 * A3 * !Y)	0.00095	0.00098	0.00102
	(!A1 * A2 * A3 * !Y)	-0.00005	-0.00005	-0.00005
	(!A1 * A2 * A3 * !Y)	0.00003	0.00003	0.00003
	(!A1 * A2 * A3 * !Y)	0.00011	0.00013	0.00017

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX1H7H	(A0N * A2 * A3 * !Y)	-0.00013	-0.00011	-0.00010
	(A0N * A2 * A3 * !Y)	-0.00003	-0.00003	-0.00002
	(A0N * A2 * A3 * !Y)	0.00001	0.00001	0.00001
	(A0N * A2 * A3 * !Y)	0.00030	0.00030	0.00030
	(A0N * A2 * !A3 * !Y)	-0.00013	-0.00011	-0.00010
	(A0N * A2 * !A3 * !Y)	-0.00003	-0.00003	-0.00002
	(A0N * A2 * !A3 * !Y)	0.00001	0.00001	0.00001
	(A0N * A2 * !A3 * !Y)	0.00030	0.00030	0.00030
	(A0N * !A2 * A3 * !Y)	-0.00012	-0.00011	-0.00008
	(A0N * !A2 * A3 * !Y)	-0.00003	-0.00003	-0.00002
	(A0N * !A2 * A3 * !Y)	0.00000	0.00001	0.00001
	(A0N * !A2 * A3 * !Y)	0.00030	0.00030	0.00030
	(!A0N * A2 * A3 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0N * A2 * A3 * !Y)	-0.00008	-0.00008	-0.00008
	(!A0N * A2 * A3 * !Y)	0.00000	0.00001	0.00001
	(!A0N * A2 * A3 * !Y)	0.00027	0.00027	0.00027
	(!A0N * A2 * !A3 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0N * A2 * !A3 * !Y)	-0.00008	-0.00007	-0.00007
	(!A0N * A2 * !A3 * !Y)	0.00000	0.00001	0.00001
	(!A0N * A2 * !A3 * !Y)	0.00027	0.00027	0.00027
	(!A0N * !A2 * A3 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0N * !A2 * A3 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0N * !A2 * A3 * !Y)	0.00000	0.00001	0.00001
	(!A0N * !A2 * A3 * !Y)	0.00027	0.00027	0.00027
	(!A0N * !A2 * !A3 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0N * !A2 * !A3 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0N * !A2 * !A3 * !Y)	0.00000	0.00001	0.00001
	(!A0N * !A2 * !A3 * !Y)	0.00027	0.00027	0.00027

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX1H7H	(A0N * A2 * A3 * !Y)	0.00012	0.00012	0.00013
	(A0N * A2 * A3 * !Y)	0.00002	0.00003	0.00003
	(A0N * A2 * A3 * !Y)	-0.00001	-0.00001	-0.00000
	(A0N * A2 * A3 * !Y)	-0.00030	-0.00030	-0.00030
	(A0N * A2 * !A3 * !Y)	0.00012	0.00013	0.00013
	(A0N * A2 * !A3 * !Y)	0.00002	0.00003	0.00003
	(A0N * A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A0N * A2 * !A3 * !Y)	-0.00030	-0.00030	-0.00030
	(A0N * !A2 * A3 * !Y)	0.00012	0.00012	0.00012
	(A0N * !A2 * A3 * !Y)	0.00002	0.00003	0.00003
	(A0N * !A2 * A3 * !Y)	-0.00001	-0.00001	-0.00000
	(A0N * !A2 * A3 * !Y)	-0.00030	-0.00030	-0.00030
	(!A0N * A2 * A3 * !Y)	0.00005	0.00005	0.00005
	(!A0N * A2 * A3 * !Y)	0.00008	0.00008	0.00008
	(!A0N * A2 * A3 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0N * A2 * A3 * !Y)	-0.00027	-0.00027	-0.00027
	(!A0N * A2 * !A3 * !Y)	0.00005	0.00005	0.00005
	(!A0N * A2 * !A3 * !Y)	0.00007	0.00007	0.00008
	(!A0N * A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0N * A2 * !A3 * !Y)	-0.00027	-0.00027	-0.00027
	(!A0N * !A2 * A3 * !Y)	0.00005	0.00005	0.00005
	(!A0N * !A2 * A3 * !Y)	0.00007	0.00007	0.00007
	(!A0N * !A2 * A3 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0N * !A2 * A3 * !Y)	-0.00027	-0.00027	-0.00027
	(!A0N * !A2 * !A3 * !Y)	0.00005	0.00005	0.00005
	(!A0N * !A2 * !A3 * !Y)	0.00006	0.00006	0.00006
	(!A0N * !A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0N * !A2 * !A3 * !Y)	-0.00027	-0.00027	-0.00027

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX1H7H	(A1 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * A3 * !Y)	-0.00007	-0.00007	-0.00007
	(A1 * A3 * !Y)	0.00000	0.00001	0.00001
	(A1 * A3 * !Y)	0.00031	0.00031	0.00031
	(A1 * !A3 * !Y)	-0.00000	0.00000	0.00000
	(A1 * !A3 * !Y)	-0.00006	-0.00006	-0.00006
	(A1 * !A3 * !Y)	0.00000	0.00001	0.00001
	(A1 * !A3 * !Y)	0.00031	0.00031	0.00031
	(A0N * !A1 * A3 * !Y)	-0.00012	-0.00011	-0.00009
	(A0N * !A1 * A3 * !Y)	-0.00003	-0.00003	-0.00002
	(A0N * !A1 * A3 * !Y)	0.00000	0.00001	0.00001
	(A0N * !A1 * A3 * !Y)	0.00031	0.00031	0.00031
	(!A0N * !A1 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0N * !A1 * A3 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0N * !A1 * A3 * !Y)	0.00000	0.00001	0.00001
	(!A0N * !A1 * A3 * !Y)	0.00031	0.00031	0.00031
	(!A0N * !A1 * !A3 * !Y)	-0.00000	-0.00000	0.00000
	(!A0N * !A1 * !A3 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0N * !A1 * !A3 * !Y)	0.00000	0.00001	0.00001
	(!A0N * !A1 * !A3 * !Y)	0.00031	0.00031	0.00031

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX1H7H	(A1 * A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * A3 * !Y)	0.00007	0.00007	0.00007
	(A1 * A3 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * A3 * !Y)	-0.00031	-0.00031	-0.00031
	(A1 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A3 * !Y)	0.00006	0.00006	0.00006
	(A1 * !A3 * !Y)	-0.00001	-0.00000	0.00000
	(A1 * !A3 * !Y)	-0.00031	-0.00031	-0.00031
	(A0N * !A1 * A3 * !Y)	0.00012	0.00012	0.00012
	(A0N * !A1 * A3 * !Y)	0.00002	0.00003	0.00003
	(A0N * !A1 * A3 * !Y)	-0.00001	-0.00000	0.00000
	(A0N * !A1 * A3 * !Y)	-0.00031	-0.00031	-0.00031
	(!A0N * !A1 * A3 * !Y)	0.00001	0.00001	0.00001
	(!A0N * !A1 * A3 * !Y)	0.00007	0.00007	0.00007
	(!A0N * !A1 * A3 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0N * !A1 * A3 * !Y)	-0.00031	-0.00031	-0.00030
	(!A0N * !A1 * !A3 * !Y)	0.00000	0.00001	0.00001
	(!A0N * !A1 * !A3 * !Y)	0.00006	0.00006	0.00007
	(!A0N * !A1 * !A3 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0N * !A1 * !A3 * !Y)	-0.00031	-0.00031	-0.00030

Passive power(pJ) for A3 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX1H7H	(A2 * !Y)	-0.00000	0.00000	0.00000
	(A2 * !Y)	-0.00004	-0.00004	-0.00004
	(A2 * !Y)	0.00000	0.00001	0.00001
	(A2 * !Y)	0.00039	0.00039	0.00039
	(A1 * !A2 * !Y)	-0.00000	0.00000	0.00000
	(A1 * !A2 * !Y)	-0.00004	-0.00004	-0.00004
	(A1 * !A2 * !Y)	0.00000	0.00001	0.00001
	(A1 * !A2 * !Y)	0.00039	0.00039	0.00039
	(!A0N * !A1 * !A2 * !Y)	-0.00000	-0.00000	0.00000
	(!A0N * !A1 * !A2 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0N * !A1 * !A2 * !Y)	0.00001	0.00001	0.00001
	(!A0N * !A1 * !A2 * !Y)	0.00039	0.00039	0.00039

Passive power(pJ) for A3 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX1H7H	(A2 * !Y)	0.00000	0.00000	0.00000
	(A2 * !Y)	0.00004	0.00004	0.00004
	(A2 * !Y)	-0.00001	-0.00001	-0.00000
	(A2 * !Y)	-0.00039	-0.00039	-0.00039
	(A1 * !A2 * !Y)	-0.00000	0.00000	0.00000
	(A1 * !A2 * !Y)	0.00004	0.00004	0.00004
	(A1 * !A2 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * !Y)	-0.00039	-0.00039	-0.00039
	(!A0N * !A1 * !A2 * !Y)	0.00000	0.00000	0.00001
	(!A0N * !A1 * !A2 * !Y)	0.00004	0.00004	0.00005
	(!A0N * !A1 * !A2 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0N * !A1 * !A2 * !Y)	-0.00039	-0.00039	-0.00039

NOR4BX1P4H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

NOR4B, In: AN, B, C, D, Out: Y

Truth Table

INPUT				OUTPUT
A0N	A1	A2	A3	Y
0	x	x	x	0
1	0	0	0	1
1	0	x	1	0
1	x	1	x	0
1	1	x	x	0

Footprint

Cell Name	Area
NOR4BX1P4H7H	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0N	A1	A2	A3	Y
NOR4BX1P4H7H	0.00102	0.00098	0.00099	0.00107	0.01105

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR4BX1P4H7H	0.00000	0.01841	0.06772

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4BX1P4H7H	A0N->Y (RR)	0.13226	0.28586	0.65822
	A1->Y (FR)	0.10466	0.26842	0.72419
	A2->Y (FR)	0.09712	0.26296	0.73708
	A3->Y (FR)	0.08421	0.24371	0.70463

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4BX1P4H7H	A0N->Y (FF)	0.06112	0.13749	0.30635
	A1->Y (RF)	0.02143	0.09760	0.34642
	A2->Y (RF)	0.02068	0.09466	0.34249
	A3->Y (RF)	0.01932	0.09109	0.33870

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4BX1P4H7H	A0N	0.00165	0.00169	0.00175
	A0N	-0.00023	-0.00021	-0.00020
	A0N	0.00013	0.00013	0.00013
	A0N	0.00121	0.00125	0.00131
	A1	0.00156	0.00159	0.00163
	A1	-0.00017	-0.00017	-0.00015
	A1	0.00015	0.00015	0.00015
	A1	-0.00003	0.00000	0.00004
	A2	0.00135	0.00138	0.00142
	A2	-0.00012	-0.00011	-0.00010
	A2	0.00015	0.00015	0.00015
	A2	0.00000	0.00003	0.00007
	A3	0.00113	0.00116	0.00122
	A3	-0.00004	-0.00003	-0.00003
	A3	0.00015	0.00015	0.00015
	A3	-0.00004	-0.00001	0.00004

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4BX1P4H7H	**A0N**	0.00112	0.00115	0.00120
	A0N	0.00020	0.00021	0.00023
	A0N	-0.00013	-0.00013	-0.00013
	A0N	0.00141	0.00145	0.00151
	A1	-0.00014	-0.00011	-0.00006
	A1	0.00015	0.00017	0.00017
	A1	-0.00015	-0.00015	-0.00015
	A1	0.00135	0.00138	0.00141
	A2	-0.00015	-0.00011	-0.00009
	A2	0.00010	0.00011	0.00012
	A2	-0.00015	-0.00015	-0.00015
	A2	0.00116	0.00119	0.00122
	A3	-0.00014	-0.00010	-0.00006
	A3	0.00003	0.00004	0.00006
	A3	-0.00015	-0.00015	-0.00014
	A3	0.00103	0.00107	0.00110

Passive power(pJ) for A0N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX1P4H7H	(A1 * A3 * !Y)	-0.00000	0.00002	0.00006
	(A1 * A3 * !Y)	0.00005	0.00005	0.00005
	(A1 * A3 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * A3 * !Y)	0.00085	0.00088	0.00091
	(A1 * A2 * !A3 * !Y)	-0.00000	0.00002	0.00006
	(A1 * A2 * !A3 * !Y)	0.00005	0.00005	0.00005
	(A1 * A2 * !A3 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * A2 * !A3 * !Y)	0.00085	0.00088	0.00091
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	-0.00000	0.00002	0.00006
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	0.00005	0.00005	0.00005
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	0.00085	0.00088	0.00091
	(!A1 * A2 * A3 * !Y)	-0.00001	0.00001	0.00004
	(!A1 * A2 * A3 * !Y)	0.00005	0.00005	0.00006
	(!A1 * A2 * A3 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1 * A2 * A3 * !Y)	0.00086	0.00088	0.00091

Passive power(pJ) for A0N falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX1P4H7H	(A1 * A3 * !Y)	0.00098	0.00100	0.00104
	(A1 * A3 * !Y)	-0.00005	-0.00005	-0.00005
	(A1 * A3 * !Y)	0.00003	0.00003	0.00003
	(A1 * A3 * !Y)	0.00012	0.00014	0.00017
	(A1 * A2 * !A3 * !Y)	0.00098	0.00100	0.00104
	(A1 * A2 * !A3 * !Y)	-0.00005	-0.00005	-0.00005
	(A1 * A2 * !A3 * !Y)	0.00003	0.00003	0.00003
	(A1 * A2 * !A3 * !Y)	0.00012	0.00014	0.00017
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	0.00098	0.00100	0.00104
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	-0.00005	-0.00005	-0.00005
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	0.00003	0.00003	0.00003
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	0.00012	0.00014	0.00018
	(!A1 * A2 * A3 * !Y)	0.00099	0.00102	0.00105
	(!A1 * A2 * A3 * !Y)	-0.00006	-0.00005	-0.00005
	(!A1 * A2 * A3 * !Y)	0.00003	0.00003	0.00003
	(!A1 * A2 * A3 * !Y)	0.00012	0.00014	0.00018

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX1P4H7H	(A0N * A2 * A3 * !Y)	-0.00014	-0.00013	-0.00010
	(A0N * A2 * A3 * !Y)	-0.00003	-0.00003	-0.00003
	(A0N * A2 * A3 * !Y)	0.00001	0.00001	0.00001
	(A0N * A2 * A3 * !Y)	0.00032	0.00032	0.00032
	(A0N * A2 * !A3 * !Y)	-0.00014	-0.00013	-0.00010
	(A0N * A2 * !A3 * !Y)	-0.00003	-0.00003	-0.00003
	(A0N * A2 * !A3 * !Y)	0.00001	0.00001	0.00001
	(A0N * A2 * !A3 * !Y)	0.00032	0.00032	0.00032
	(A0N * !A2 * A3 * !Y)	-0.00013	-0.00012	-0.00009
	(A0N * !A2 * A3 * !Y)	-0.00003	-0.00003	-0.00002
	(A0N * !A2 * A3 * !Y)	0.00001	0.00001	0.00001
	(A0N * !A2 * A3 * !Y)	0.00032	0.00032	0.00032
	(!A0N * A2 * A3 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0N * A2 * A3 * !Y)	-0.00009	-0.00009	-0.00008
	(!A0N * A2 * A3 * !Y)	0.00000	0.00001	0.00001
	(!A0N * A2 * A3 * !Y)	0.00028	0.00028	0.00029
	(!A0N * A2 * !A3 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0N * A2 * !A3 * !Y)	-0.00009	-0.00008	-0.00008
	(!A0N * A2 * !A3 * !Y)	0.00000	0.00001	0.00001
	(!A0N * A2 * !A3 * !Y)	0.00028	0.00028	0.00029
	(!A0N * !A2 * A3 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0N * !A2 * A3 * !Y)	-0.00008	-0.00008	-0.00008
	(!A0N * !A2 * A3 * !Y)	0.00001	0.00001	0.00001
	(!A0N * !A2 * A3 * !Y)	0.00028	0.00028	0.00029
	(!A0N * !A2 * !A3 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0N * !A2 * !A3 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0N * !A2 * !A3 * !Y)	0.00001	0.00001	0.00001
	(!A0N * !A2 * !A3 * !Y)	0.00028	0.00028	0.00029

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX1P4H7H	(A0N * A2 * A3 * !Y)	0.00014	0.00014	0.00014
	(A0N * A2 * A3 * !Y)	0.00003	0.00003	0.00003
	(A0N * A2 * A3 * !Y)	-0.00001	-0.00001	-0.00000
	(A0N * A2 * A3 * !Y)	-0.00032	-0.00032	-0.00032
	(A0N * A2 * !A3 * !Y)	0.00014	0.00014	0.00014
	(A0N * A2 * !A3 * !Y)	0.00003	0.00003	0.00003
	(A0N * A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00000
	(A0N * A2 * !A3 * !Y)	-0.00032	-0.00032	-0.00032
	(A0N * !A2 * A3 * !Y)	0.00013	0.00013	0.00013
	(A0N * !A2 * A3 * !Y)	0.00002	0.00003	0.00003
	(A0N * !A2 * A3 * !Y)	-0.00001	-0.00001	-0.00000
	(A0N * !A2 * A3 * !Y)	-0.00032	-0.00032	-0.00032
	(!A0N * A2 * A3 * !Y)	0.00006	0.00006	0.00006
	(!A0N * A2 * A3 * !Y)	0.00008	0.00009	0.00009
	(!A0N * A2 * A3 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0N * A2 * A3 * !Y)	-0.00029	-0.00028	-0.00028
	(!A0N * A2 * !A3 * !Y)	0.00006	0.00006	0.00006
	(!A0N * A2 * !A3 * !Y)	0.00008	0.00008	0.00009
	(!A0N * A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0N * A2 * !A3 * !Y)	-0.00028	-0.00028	-0.00028
	(!A0N * !A2 * A3 * !Y)	0.00006	0.00006	0.00006
	(!A0N * !A2 * A3 * !Y)	0.00008	0.00008	0.00008
	(!A0N * !A2 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0N * !A2 * A3 * !Y)	-0.00029	-0.00028	-0.00028
	(!A0N * !A2 * !A3 * !Y)	0.00006	0.00006	0.00006
	(!A0N * !A2 * !A3 * !Y)	0.00007	0.00007	0.00007
	(!A0N * !A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0N * !A2 * !A3 * !Y)	-0.00029	-0.00028	-0.00028

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX1P4H7H	(A1 * A3 * !Y)	-0.00000	0.00000	0.00000
	(A1 * A3 * !Y)	-0.00009	-0.00009	-0.00009
	(A1 * A3 * !Y)	0.00000	0.00001	0.00001
	(A1 * A3 * !Y)	0.00030	0.00030	0.00030
	(A1 * !A3 * !Y)	-0.00000	0.00000	0.00000
	(A1 * !A3 * !Y)	-0.00007	-0.00007	-0.00007
	(A1 * !A3 * !Y)	0.00001	0.00001	0.00001
	(A1 * !A3 * !Y)	0.00030	0.00030	0.00030
	(A0N * !A1 * A3 * !Y)	-0.00015	-0.00013	-0.00011
	(A0N * !A1 * A3 * !Y)	-0.00003	-0.00003	-0.00003
	(A0N * !A1 * A3 * !Y)	0.00001	0.00001	0.00002
	(A0N * !A1 * A3 * !Y)	0.00030	0.00030	0.00030
	(!A0N * !A1 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0N * !A1 * A3 * !Y)	-0.00009	-0.00009	-0.00009
	(!A0N * !A1 * A3 * !Y)	0.00001	0.00001	0.00001
	(!A0N * !A1 * A3 * !Y)	0.00030	0.00030	0.00030
	(!A0N * !A1 * !A3 * !Y)	-0.00000	-0.00000	0.00000
	(!A0N * !A1 * !A3 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0N * !A1 * !A3 * !Y)	0.00001	0.00001	0.00001
	(!A0N * !A1 * !A3 * !Y)	0.00030	0.00030	0.00030

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX1P4H7H	(A1 * A3 * !Y)	-0.00000	0.00000	0.00000
	(A1 * A3 * !Y)	0.00009	0.00009	0.00009
	(A1 * A3 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * A3 * !Y)	-0.00030	-0.00030	-0.00030
	(A1 * !A3 * !Y)	-0.00000	0.00000	0.00000
	(A1 * !A3 * !Y)	0.00007	0.00007	0.00008
	(A1 * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A3 * !Y)	-0.00030	-0.00030	-0.00030
	(A0N * !A1 * A3 * !Y)	0.00015	0.00015	0.00015
	(A0N * !A1 * A3 * !Y)	0.00003	0.00003	0.00003
	(A0N * !A1 * A3 * !Y)	-0.00001	-0.00001	-0.00000
	(A0N * !A1 * A3 * !Y)	-0.00030	-0.00030	-0.00029
	(!A0N * !A1 * A3 * !Y)	0.00001	0.00001	0.00001
	(!A0N * !A1 * A3 * !Y)	0.00009	0.00009	0.00009
	(!A0N * !A1 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0N * !A1 * A3 * !Y)	-0.00030	-0.00030	-0.00030
	(!A0N * !A1 * !A3 * !Y)	0.00001	0.00001	0.00001
	(!A0N * !A1 * !A3 * !Y)	0.00007	0.00007	0.00007
	(!A0N * !A1 * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0N * !A1 * !A3 * !Y)	-0.00030	-0.00030	-0.00030

Passive power(pJ) for A3 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX1P4H7H	(A2 * !Y)	-0.00000	0.00000	0.00000
	(A2 * !Y)	-0.00005	-0.00005	-0.00004
	(A2 * !Y)	0.00000	0.00001	0.00001
	(A2 * !Y)	0.00041	0.00042	0.00042
	(A1 * !A2 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * !A2 * !Y)	-0.00004	-0.00004	-0.00004
	(A1 * !A2 * !Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * !Y)	0.00041	0.00041	0.00042
	(!A0N * !A1 * !A2 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0N * !A1 * !A2 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0N * !A1 * !A2 * !Y)	0.00001	0.00001	0.00001
	(!A0N * !A1 * !A2 * !Y)	0.00041	0.00041	0.00042

Passive power(pJ) for A3 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX1P4H7H	(A2 * !Y)	-0.00000	0.00000	0.00000
	(A2 * !Y)	0.00005	0.00005	0.00005
	(A2 * !Y)	-0.00001	-0.00001	-0.00000
	(A2 * !Y)	-0.00042	-0.00041	-0.00041
	(A1 * !A2 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !Y)	0.00004	0.00005	0.00005
	(A1 * !A2 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !Y)	-0.00041	-0.00041	-0.00041
	(!A0N * !A1 * !A2 * !Y)	0.00000	0.00000	0.00001
	(!A0N * !A1 * !A2 * !Y)	0.00004	0.00004	0.00005
	(!A0N * !A1 * !A2 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0N * !A1 * !A2 * !Y)	-0.00042	-0.00041	-0.00041

NOR4BX2H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

NOR4B, In: AN, B, C, D, Out: Y

Truth Table

INPUT				OUTPUT
A0N	A1	A2	A3	Y
0	x	x	x	0
1	0	0	0	1
1	0	x	1	0
1	x	1	x	0
1	1	x	x	0

Footprint

Cell Name	Area
NOR4BX2H7H	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0N	A1	A2	A3	Y
NOR4BX2H7H	0.00102	0.00111	0.00116	0.00117	0.01283

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR4BX2H7H	0.00000	0.02239	0.10567

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4BX2H7H	A0N->Y (RR)	0.12687	0.28347	0.66327
	A1->Y (FR)	0.09848	0.26471	0.72764
	A2->Y (FR)	0.09175	0.25961	0.74030
	A3->Y (FR)	0.07651	0.23823	0.70415

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4BX2H7H	A0N->Y (FF)	0.06071	0.13791	0.30916
	A1->Y (RF)	0.01993	0.09556	0.34501
	A2->Y (RF)	0.01940	0.09272	0.34105
	A3->Y (RF)	0.01781	0.08866	0.33709

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4BX2H7H	A0N	0.00186	0.00191	0.00197
	A0N	-0.00026	-0.00026	-0.00025
	A0N	0.00016	0.00016	0.00016
	A0N	0.00123	0.00127	0.00134
	A1	0.00173	0.00177	0.00181
	A1	-0.00023	-0.00021	-0.00018
	A1	0.00018	0.00018	0.00018
	A1	-0.00008	-0.00004	-0.00000
	A2	0.00148	0.00152	0.00157
	A2	-0.00013	-0.00013	-0.00010
	A2	0.00018	0.00018	0.00018
	A2	-0.00005	-0.00002	0.00003
	A3	0.00118	0.00125	0.00130
	A3	-0.00005	-0.00004	-0.00004
	A3	0.00018	0.00018	0.00019
	A3	-0.00010	-0.00006	-0.00000

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4BX2H7H	A0N	0.00114	0.00118	0.00123
	A0N	0.00025	0.00026	0.00026
	A0N	-0.00016	-0.00016	-0.00016
	A0N	0.00160	0.00164	0.00170
	A1	-0.00017	-0.00013	-0.00008
	A1	0.00018	0.00021	0.00023
	A1	-0.00018	-0.00018	-0.00018
	A1	0.00153	0.00156	0.00160
	A2	-0.00017	-0.00013	-0.00008
	A2	0.00010	0.00013	0.00013
	A2	-0.00018	-0.00018	-0.00018
	A2	0.00131	0.00136	0.00139
	A3	-0.00016	-0.00011	-0.00007
	A3	0.00004	0.00004	0.00005
	A3	-0.00018	-0.00018	-0.00017
	A3	0.00114	0.00119	0.00122

Passive power(pJ) for A0N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX2H7H	(A1 * A3 * !Y)	0.00002	0.00005	0.00009
	(A1 * A3 * !Y)	0.00005	0.00006	0.00006
	(A1 * A3 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * A3 * !Y)	0.00089	0.00091	0.00095
	(A1 * A2 * !A3 * !Y)	0.00002	0.00005	0.00009
	(A1 * A2 * !A3 * !Y)	0.00005	0.00006	0.00006
	(A1 * A2 * !A3 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * A2 * !A3 * !Y)	0.00089	0.00091	0.00095
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	0.00002	0.00005	0.00009
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	0.00005	0.00006	0.00006
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	0.00089	0.00091	0.00095
	(!A1 * A2 * A3 * !Y)	0.00001	0.00004	0.00007
	(!A1 * A2 * A3 * !Y)	0.00006	0.00006	0.00006
	(!A1 * A2 * A3 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1 * A2 * A3 * !Y)	0.00089	0.00092	0.00095

Passive power(pJ) for A0N falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX2H7H	(A1 * A3 * !Y)	0.00099	0.00102	0.00105
	(A1 * A3 * !Y)	-0.00006	-0.00006	-0.00005
	(A1 * A3 * !Y)	0.00003	0.00003	0.00003
	(A1 * A3 * !Y)	0.00012	0.00014	0.00018
	(A1 * A2 * !A3 * !Y)	0.00099	0.00102	0.00105
	(A1 * A2 * !A3 * !Y)	-0.00006	-0.00006	-0.00005
	(A1 * A2 * !A3 * !Y)	0.00003	0.00003	0.00003
	(A1 * A2 * !A3 * !Y)	0.00012	0.00014	0.00018
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	0.00099	0.00102	0.00105
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	-0.00006	-0.00006	-0.00005
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	0.00003	0.00003	0.00003
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	0.00012	0.00014	0.00018
	(!A1 * A2 * A3 * !Y)	0.00100	0.00103	0.00107
	(!A1 * A2 * A3 * !Y)	-0.00006	-0.00006	-0.00006
	(!A1 * A2 * A3 * !Y)	0.00003	0.00003	0.00003
	(!A1 * A2 * A3 * !Y)	0.00012	0.00014	0.00018

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX2H7H	(A0N * A2 * A3 * !Y)	-0.00017	-0.00015	-0.00013
	(A0N * A2 * A3 * !Y)	-0.00004	-0.00003	-0.00003
	(A0N * A2 * A3 * !Y)	0.00001	0.00001	0.00001
	(A0N * A2 * A3 * !Y)	0.00035	0.00035	0.00035
	(A0N * A2 * !A3 * !Y)	-0.00017	-0.00015	-0.00012
	(A0N * A2 * !A3 * !Y)	-0.00004	-0.00003	-0.00003
	(A0N * A2 * !A3 * !Y)	0.00001	0.00001	0.00001
	(A0N * A2 * !A3 * !Y)	0.00034	0.00035	0.00035
	(A0N * !A2 * A3 * !Y)	-0.00016	-0.00014	-0.00011
	(A0N * !A2 * A3 * !Y)	-0.00004	-0.00003	-0.00003
	(A0N * !A2 * A3 * !Y)	0.00001	0.00001	0.00001
	(A0N * !A2 * A3 * !Y)	0.00034	0.00035	0.00035
	(!A0N * A2 * A3 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0N * A2 * A3 * !Y)	-0.00010	-0.00010	-0.00010
	(!A0N * A2 * A3 * !Y)	0.00000	0.00001	0.00001
	(!A0N * A2 * A3 * !Y)	0.00030	0.00030	0.00031
	(!A0N * A2 * !A3 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0N * A2 * !A3 * !Y)	-0.00010	-0.00010	-0.00010
	(!A0N * A2 * !A3 * !Y)	0.00001	0.00001	0.00001
	(!A0N * A2 * !A3 * !Y)	0.00030	0.00030	0.00031
	(!A0N * !A2 * A3 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0N * !A2 * A3 * !Y)	-0.00010	-0.00010	-0.00010
	(!A0N * !A2 * A3 * !Y)	0.00001	0.00001	0.00001
	(!A0N * !A2 * A3 * !Y)	0.00030	0.00030	0.00031
	(!A0N * !A2 * !A3 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0N * !A2 * !A3 * !Y)	-0.00008	-0.00008	-0.00008
	(!A0N * !A2 * !A3 * !Y)	0.00001	0.00001	0.00001
	(!A0N * !A2 * !A3 * !Y)	0.00030	0.00030	0.00031

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX2H7H	(A0N * A2 * A3 * !Y)	0.00017	0.00017	0.00017
	(A0N * A2 * A3 * !Y)	0.00003	0.00003	0.00004
	(A0N * A2 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A0N * A2 * A3 * !Y)	-0.00035	-0.00035	-0.00034
	(A0N * A2 * !A3 * !Y)	0.00017	0.00017	0.00017
	(A0N * A2 * !A3 * !Y)	0.00003	0.00003	0.00004
	(A0N * A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A0N * A2 * !A3 * !Y)	-0.00035	-0.00035	-0.00034
	(A0N * !A2 * A3 * !Y)	0.00016	0.00016	0.00016
	(A0N * !A2 * A3 * !Y)	0.00003	0.00003	0.00004
	(A0N * !A2 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A0N * !A2 * A3 * !Y)	-0.00035	-0.00035	-0.00034
	(!A0N * A2 * A3 * !Y)	0.00007	0.00007	0.00007
	(!A0N * A2 * A3 * !Y)	0.00010	0.00010	0.00010
	(!A0N * A2 * A3 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0N * A2 * A3 * !Y)	-0.00031	-0.00030	-0.00030
	(!A0N * A2 * !A3 * !Y)	0.00007	0.00007	0.00007
	(!A0N * A2 * !A3 * !Y)	0.00010	0.00010	0.00010
	(!A0N * A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0N * A2 * !A3 * !Y)	-0.00031	-0.00030	-0.00030
	(!A0N * !A2 * A3 * !Y)	0.00006	0.00006	0.00006
	(!A0N * !A2 * A3 * !Y)	0.00010	0.00010	0.00010
	(!A0N * !A2 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0N * !A2 * A3 * !Y)	-0.00031	-0.00030	-0.00030
	(!A0N * !A2 * !A3 * !Y)	0.00007	0.00007	0.00007
	(!A0N * !A2 * !A3 * !Y)	0.00008	0.00009	0.00009
	(!A0N * !A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0N * !A2 * !A3 * !Y)	-0.00030	-0.00030	-0.00030

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX2H7H	(A1 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * A3 * !Y)	-0.00010	-0.00010	-0.00010
	(A1 * A3 * !Y)	0.00001	0.00001	0.00001
	(A1 * A3 * !Y)	0.00034	0.00034	0.00034
	(A1 * !A3 * !Y)	-0.00000	0.00000	0.00000
	(A1 * !A3 * !Y)	-0.00008	-0.00008	-0.00008
	(A1 * !A3 * !Y)	0.00001	0.00001	0.00001
	(A1 * !A3 * !Y)	0.00034	0.00034	0.00034
	(A0N * !A1 * A3 * !Y)	-0.00017	-0.00015	-0.00012
	(A0N * !A1 * A3 * !Y)	-0.00004	-0.00003	-0.00003
	(A0N * !A1 * A3 * !Y)	0.00001	0.00001	0.00001
	(A0N * !A1 * A3 * !Y)	0.00034	0.00034	0.00035
	(!A0N * !A1 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0N * !A1 * A3 * !Y)	-0.00010	-0.00010	-0.00010
	(!A0N * !A1 * A3 * !Y)	0.00001	0.00001	0.00001
	(!A0N * !A1 * A3 * !Y)	0.00034	0.00034	0.00034
	(!A0N * !A1 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0N * !A1 * !A3 * !Y)	-0.00008	-0.00008	-0.00008
	(!A0N * !A1 * !A3 * !Y)	0.00001	0.00001	0.00001
	(!A0N * !A1 * !A3 * !Y)	0.00034	0.00034	0.00034

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX2H7H	(A1 * A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * A3 * !Y)	0.00010	0.00010	0.00010
	(A1 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * A3 * !Y)	-0.00034	-0.00034	-0.00034
	(A1 * !A3 * !Y)	-0.00000	0.00000	0.00000
	(A1 * !A3 * !Y)	0.00008	0.00009	0.00009
	(A1 * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A3 * !Y)	-0.00034	-0.00034	-0.00034
	(A0N * !A1 * A3 * !Y)	0.00017	0.00017	0.00017
	(A0N * !A1 * A3 * !Y)	0.00003	0.00003	0.00004
	(A0N * !A1 * A3 * !Y)	-0.00001	-0.00001	-0.00000
	(A0N * !A1 * A3 * !Y)	-0.00034	-0.00034	-0.00034
	(!A0N * !A1 * A3 * !Y)	0.00001	0.00001	0.00001
	(!A0N * !A1 * A3 * !Y)	0.00010	0.00010	0.00010
	(!A0N * !A1 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0N * !A1 * A3 * !Y)	-0.00034	-0.00034	-0.00034
	(!A0N * !A1 * !A3 * !Y)	0.00000	0.00001	0.00001
	(!A0N * !A1 * !A3 * !Y)	0.00008	0.00009	0.00009
	(!A0N * !A1 * !A3 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0N * !A1 * !A3 * !Y)	-0.00034	-0.00034	-0.00033

Passive power(pJ) for A3 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX2H7H	(A2 * !Y)	-0.00000	0.00000	0.00000
	(A2 * !Y)	-0.00005	-0.00005	-0.00005
	(A2 * !Y)	0.00001	0.00001	0.00001
	(A2 * !Y)	0.00044	0.00045	0.00045
	(A1 * !A2 * !Y)	-0.00000	0.00000	0.00000
	(A1 * !A2 * !Y)	-0.00005	-0.00005	-0.00005
	(A1 * !A2 * !Y)	0.00000	0.00001	0.00001
	(A1 * !A2 * !Y)	0.00044	0.00044	0.00045
	(!A0N * !A1 * !A2 * !Y)	-0.00000	-0.00000	0.00000
	(!A0N * !A1 * !A2 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0N * !A1 * !A2 * !Y)	0.00001	0.00001	0.00001
	(!A0N * !A1 * !A2 * !Y)	0.00044	0.00045	0.00045

Passive power(pJ) for A3 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX2H7H	(A2 * !Y)	0.00000	0.00000	0.00000
	(A2 * !Y)	0.00005	0.00005	0.00006
	(A2 * !Y)	-0.00001	-0.00001	-0.00001
	(A2 * !Y)	-0.00045	-0.00044	-0.00044
	(A1 * !A2 * !Y)	-0.00000	0.00000	0.00000
	(A1 * !A2 * !Y)	0.00005	0.00005	0.00005
	(A1 * !A2 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * !Y)	-0.00045	-0.00044	-0.00044
	(!A0N * !A1 * !A2 * !Y)	0.00000	0.00000	0.00000
	(!A0N * !A1 * !A2 * !Y)	0.00005	0.00006	0.00007
	(!A0N * !A1 * !A2 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0N * !A1 * !A2 * !Y)	-0.00045	-0.00044	-0.00044

NOR4BX3H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

NOR4B, In: AN, B, C, D, Out: Y

Truth Table

INPUT				OUTPUT
A0N	A1	A2	A3	Y
0	x	x	x	0
1	0	0	0	1
1	0	x	1	0
1	x	1	x	0
1	1	x	x	0

Footprint

Cell Name	Area
NOR4BX3H7H	4.20000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0N	A1	A2	A3	Y
NOR4BX3H7H	0.00113	0.00194	0.00193	0.00199	0.02019

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR4BX3H7H	0.00000	0.03112	0.10153

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4BX3H7H	A0N->Y (RR)	0.14036	0.30322	0.69930
	A1->Y (FR)	0.10733	0.27427	0.73547
	A2->Y (FR)	0.09734	0.26529	0.74531
	A3->Y (FR)	0.07621	0.23729	0.70276

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4BX3H7H	A0N->Y (FF)	0.06503	0.14633	0.32840
	A1->Y (RF)	0.02067	0.09670	0.34492
	A2->Y (RF)	0.01991	0.09332	0.34070
	A3->Y (RF)	0.01794	0.08811	0.33473

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4BX3H7H	A0N	0.00364	0.00371	0.00381
	A0N	-0.00040	-0.00038	-0.00037
	A0N	0.00025	0.00025	0.00025
	A0N	0.00204	0.00212	0.00221
	A1	0.00326	0.00332	0.00339
	A1	-0.00034	-0.00031	-0.00029
	A1	0.00028	0.00028	0.00029
	A1	0.00009	0.00016	0.00023
	A2	0.00277	0.00282	0.00289
	A2	-0.00020	-0.00019	-0.00016
	A2	0.00028	0.00028	0.00028
	A2	0.00012	0.00017	0.00024
	A3	0.00214	0.00223	0.00233
	A3	-0.00007	-0.00006	-0.00005
	A3	0.00028	0.00028	0.00028
	A3	0.00000	0.00007	0.00017

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4BX3H7H	**A0N**	0.00172	0.00179	0.00186
	A0N	0.00037	0.00038	0.00040
	A0N	-0.00025	-0.00025	-0.00025
	A0N	0.00297	0.00306	0.00316
	A1	-0.00028	-0.00021	-0.00017
	A1	0.00029	0.00031	0.00034
	A1	-0.00028	-0.00028	-0.00027
	A1	0.00265	0.00272	0.00278
	A2	-0.00028	-0.00020	-0.00016
	A2	0.00016	0.00019	0.00020
	A2	-0.00028	-0.00028	-0.00028
	A2	0.00227	0.00233	0.00238
	A3	-0.00027	-0.00019	-0.00012
	A3	0.00005	0.00006	0.00008
	A3	-0.00028	-0.00028	-0.00027
	A3	0.00189	0.00196	0.00202

Passive power(pJ) for A0N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX3H7H	(A1 * A3 * !Y)	0.00010	0.00012	0.00016
	(A1 * A3 * !Y)	0.00009	0.00010	0.00010
	(A1 * A3 * !Y)	-0.00004	-0.00004	-0.00004
	(A1 * A3 * !Y)	0.00108	0.00111	0.00116
	(A1 * A2 * !A3 * !Y)	0.00010	0.00012	0.00016
	(A1 * A2 * !A3 * !Y)	0.00009	0.00010	0.00010
	(A1 * A2 * !A3 * !Y)	-0.00004	-0.00004	-0.00004
	(A1 * A2 * !A3 * !Y)	0.00108	0.00111	0.00116
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	0.00010	0.00013	0.00016
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	0.00009	0.00009	0.00010
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	-0.00004	-0.00004	-0.00004
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	0.00108	0.00112	0.00116
	(!A1 * A2 * A3 * !Y)	0.00008	0.00011	0.00015
	(!A1 * A2 * A3 * !Y)	0.00009	0.00010	0.00010
	(!A1 * A2 * A3 * !Y)	-0.00004	-0.00004	-0.00004
	(!A1 * A2 * A3 * !Y)	0.00110	0.00113	0.00118

Passive power(pJ) for A0N falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX3H7H	(A1 * A3 * !Y)	0.00140	0.00143	0.00148
	(A1 * A3 * !Y)	-0.00010	-0.00010	-0.00009
	(A1 * A3 * !Y)	0.00004	0.00004	0.00004
	(A1 * A3 * !Y)	0.00041	0.00044	0.00048
	(A1 * A2 * !A3 * !Y)	0.00140	0.00143	0.00148
	(A1 * A2 * !A3 * !Y)	-0.00010	-0.00010	-0.00009
	(A1 * A2 * !A3 * !Y)	0.00004	0.00004	0.00004
	(A1 * A2 * !A3 * !Y)	0.00041	0.00044	0.00048
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	0.00140	0.00143	0.00148
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	-0.00010	-0.00009	-0.00009
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	0.00004	0.00004	0.00004
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	0.00041	0.00044	0.00048
	(!A1 * A2 * A3 * !Y)	0.00142	0.00146	0.00152
	(!A1 * A2 * A3 * !Y)	-0.00010	-0.00010	-0.00009
	(!A1 * A2 * A3 * !Y)	0.00004	0.00004	0.00004
	(!A1 * A2 * A3 * !Y)	0.00040	0.00043	0.00048

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX3H7H	(A0N * A2 * A3 * !Y)	-0.00035	-0.00031	-0.00026
	(A0N * A2 * A3 * !Y)	-0.00006	-0.00006	-0.00006
	(A0N * A2 * A3 * !Y)	0.00000	0.00001	0.00001
	(A0N * A2 * A3 * !Y)	0.00056	0.00057	0.00058
	(A0N * A2 * !A3 * !Y)	-0.00035	-0.00031	-0.00026
	(A0N * A2 * !A3 * !Y)	-0.00006	-0.00006	-0.00006
	(A0N * A2 * !A3 * !Y)	0.00000	0.00001	0.00001
	(A0N * A2 * !A3 * !Y)	0.00057	0.00057	0.00058
	(A0N * !A2 * A3 * !Y)	-0.00033	-0.00029	-0.00023
	(A0N * !A2 * A3 * !Y)	-0.00008	-0.00006	-0.00005
	(A0N * !A2 * A3 * !Y)	0.00000	0.00001	0.00001
	(A0N * !A2 * A3 * !Y)	0.00058	0.00058	0.00059
	(!A0N * A2 * A3 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0N * A2 * A3 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0N * A2 * A3 * !Y)	0.00001	0.00001	0.00001
	(!A0N * A2 * A3 * !Y)	0.00058	0.00059	0.00060
	(!A0N * A2 * !A3 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0N * A2 * !A3 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0N * A2 * !A3 * !Y)	0.00001	0.00001	0.00001
	(!A0N * A2 * !A3 * !Y)	0.00059	0.00059	0.00060
	(!A0N * !A2 * A3 * !Y)	-0.00006	-0.00006	-0.00005
	(!A0N * !A2 * A3 * !Y)	-0.00015	-0.00015	-0.00015
	(!A0N * !A2 * A3 * !Y)	0.00001	0.00001	0.00002
	(!A0N * !A2 * A3 * !Y)	0.00060	0.00060	0.00061
	(!A0N * !A2 * !A3 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0N * !A2 * !A3 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0N * !A2 * !A3 * !Y)	0.00001	0.00001	0.00001
	(!A0N * !A2 * !A3 * !Y)	0.00059	0.00059	0.00060

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX3H7H	(A0N * A2 * A3 * !Y)	0.00034	0.00034	0.00035
	(A0N * A2 * A3 * !Y)	0.00006	0.00006	0.00006
	(A0N * A2 * A3 * !Y)	-0.00001	-0.00001	0.00000
	(A0N * A2 * A3 * !Y)	-0.00057	-0.00057	-0.00056
	(A0N * A2 * !A3 * !Y)	0.00034	0.00034	0.00035
	(A0N * A2 * !A3 * !Y)	0.00006	0.00006	0.00006
	(A0N * A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00000
	(A0N * A2 * !A3 * !Y)	-0.00057	-0.00057	-0.00057
	(A0N * !A2 * A3 * !Y)	0.00033	0.00033	0.00033
	(A0N * !A2 * A3 * !Y)	0.00005	0.00006	0.00008
	(A0N * !A2 * A3 * !Y)	-0.00001	-0.00001	0.00000
	(A0N * !A2 * A3 * !Y)	-0.00058	-0.00057	-0.00057
	(!A0N * A2 * A3 * !Y)	0.00006	0.00006	0.00006
	(!A0N * A2 * A3 * !Y)	0.00016	0.00016	0.00016
	(!A0N * A2 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0N * A2 * A3 * !Y)	-0.00059	-0.00059	-0.00058
	(!A0N * A2 * !A3 * !Y)	0.00006	0.00006	0.00006
	(!A0N * A2 * !A3 * !Y)	0.00016	0.00016	0.00016
	(!A0N * A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0N * A2 * !A3 * !Y)	-0.00059	-0.00059	-0.00059
	(!A0N * !A2 * A3 * !Y)	0.00006	0.00006	0.00006
	(!A0N * !A2 * A3 * !Y)	0.00015	0.00015	0.00015
	(!A0N * !A2 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0N * !A2 * A3 * !Y)	-0.00060	-0.00060	-0.00059
	(!A0N * !A2 * !A3 * !Y)	0.00006	0.00006	0.00006
	(!A0N * !A2 * !A3 * !Y)	0.00013	0.00013	0.00014
	(!A0N * !A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0N * !A2 * !A3 * !Y)	-0.00059	-0.00059	-0.00059

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX3H7H	(A1 * A3 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * A3 * !Y)	-0.00015	-0.00015	-0.00015
	(A1 * A3 * !Y)	0.00001	0.00001	0.00002
	(A1 * A3 * !Y)	0.00057	0.00058	0.00059
	(A1 * !A3 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * !A3 * !Y)	-0.00013	-0.00012	-0.00012
	(A1 * !A3 * !Y)	0.00001	0.00001	0.00001
	(A1 * !A3 * !Y)	0.00058	0.00058	0.00058
	(A0N * !A1 * A3 * !Y)	-0.00035	-0.00031	-0.00026
	(A0N * !A1 * A3 * !Y)	-0.00006	-0.00005	-0.00005
	(A0N * !A1 * A3 * !Y)	0.00000	0.00001	0.00001
	(A0N * !A1 * A3 * !Y)	0.00056	0.00057	0.00060
	(!A0N * !A1 * A3 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0N * !A1 * A3 * !Y)	-0.00015	-0.00015	-0.00015
	(!A0N * !A1 * A3 * !Y)	0.00001	0.00001	0.00001
	(!A0N * !A1 * A3 * !Y)	0.00059	0.00060	0.00060
	(!A0N * !A1 * !A3 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0N * !A1 * !A3 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0N * !A1 * !A3 * !Y)	0.00001	0.00001	0.00001
	(!A0N * !A1 * !A3 * !Y)	0.00058	0.00059	0.00059

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX3H7H	(A1 * A3 * !Y)	0.00003	0.00003	0.00003
	(A1 * A3 * !Y)	0.00015	0.00015	0.00015
	(A1 * A3 * !Y)	-0.00001	-0.00001	0.00000
	(A1 * A3 * !Y)	-0.00058	-0.00058	-0.00057
	(A1 * !A3 * !Y)	0.00003	0.00003	0.00003
	(A1 * !A3 * !Y)	0.00013	0.00013	0.00013
	(A1 * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A3 * !Y)	-0.00058	-0.00058	-0.00056
	(A0N * !A1 * A3 * !Y)	0.00035	0.00035	0.00035
	(A0N * !A1 * A3 * !Y)	0.00005	0.00005	0.00006
	(A0N * !A1 * A3 * !Y)	-0.00001	-0.00001	0.00000
	(A0N * !A1 * A3 * !Y)	-0.00057	-0.00056	-0.00055
	(!A0N * !A1 * A3 * !Y)	0.00003	0.00003	0.00003
	(!A0N * !A1 * A3 * !Y)	0.00015	0.00015	0.00015
	(!A0N * !A1 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0N * !A1 * A3 * !Y)	-0.00059	-0.00059	-0.00058
	(!A0N * !A1 * !A3 * !Y)	0.00002	0.00002	0.00002
	(!A0N * !A1 * !A3 * !Y)	0.00013	0.00013	0.00014
	(!A0N * !A1 * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0N * !A1 * !A3 * !Y)	-0.00059	-0.00059	-0.00058

Passive power(pJ) for A3 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX3H7H	(A2 * !Y)	-0.00001	-0.00001	-0.00001
	(A2 * !Y)	-0.00008	-0.00008	-0.00008
	(A2 * !Y)	0.00001	0.00001	0.00002
	(A2 * !Y)	0.00074	0.00075	0.00076
	(A1 * !A2 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !Y)	-0.00008	-0.00008	-0.00008
	(A1 * !A2 * !Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * !Y)	0.00075	0.00075	0.00076
	(!A0N * !A1 * !A2 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0N * !A1 * !A2 * !Y)	-0.00008	-0.00008	-0.00007
	(!A0N * !A1 * !A2 * !Y)	0.00001	0.00001	0.00001
	(!A0N * !A1 * !A2 * !Y)	0.00075	0.00075	0.00075

Passive power(pJ) for A3 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX3H7H	(A2 * !Y)	0.00001	0.00001	0.00001
	(A2 * !Y)	0.00008	0.00008	0.00008
	(A2 * !Y)	-0.00002	-0.00001	-0.00001
	(A2 * !Y)	-0.00075	-0.00075	-0.00074
	(A1 * !A2 * !Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * !Y)	0.00008	0.00008	0.00008
	(A1 * !A2 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !Y)	-0.00075	-0.00074	-0.00074
	(!A0N * !A1 * !A2 * !Y)	0.00000	0.00001	0.00001
	(!A0N * !A1 * !A2 * !Y)	0.00008	0.00009	0.00009
	(!A0N * !A1 * !A2 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0N * !A1 * !A2 * !Y)	-0.00075	-0.00075	-0.00074

NOR4BX4H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

NOR4B, In: AN, B, C, D, Out: Y

Truth Table

INPUT				OUTPUT
A0N	A1	A2	A3	Y
0	x	x	x	0
1	0	0	0	1
1	0	x	1	0
1	x	1	x	0
1	1	x	x	0

Footprint

Cell Name	Area
NOR4BX4H7H	5.04000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0N	A1	A2	A3	Y
NOR4BX4H7H	0.00120	0.00224	0.00223	0.00231	0.02517

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR4BX4H7H	0.00000	0.04510	0.20293

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4BX4H7H	A0N->Y (RR)	0.13187	0.29648	0.69665
	A1->Y (FR)	0.09931	0.26825	0.73563
	A2->Y (FR)	0.08893	0.25859	0.74467
	A3->Y (FR)	0.06845	0.23115	0.70250

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4BX4H7H	A0N->Y (FF)	0.06287	0.14489	0.32881
	A1->Y (RF)	0.01906	0.09492	0.34507
	A2->Y (RF)	0.01843	0.09139	0.34082
	A3->Y (RF)	0.01646	0.08595	0.33459

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4BX4H7H	A0N	0.00433	0.00441	0.00452
	A0N	-0.00052	-0.00051	-0.00049
	A0N	0.00033	0.00033	0.00033
	A0N	0.00221	0.00230	0.00241
	A1	0.00385	0.00392	0.00400
	A1	-0.00042	-0.00041	-0.00040
	A1	0.00036	0.00036	0.00037
	A1	0.00003	0.00011	0.00018
	A2	0.00322	0.00329	0.00337
	A2	-0.00030	-0.00026	-0.00025
	A2	0.00036	0.00036	0.00037
	A2	0.00004	0.00010	0.00018
	A3	0.00244	0.00257	0.00268
	A3	-0.00009	-0.00009	-0.00008
	A3	0.00036	0.00036	0.00037
	A3	-0.00007	0.00001	0.00012

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4BX4H7H	A0N	0.00189	0.00197	0.00206
	A0N	0.00049	0.00051	0.00052
	A0N	-0.00033	-0.00033	-0.00033
	A0N	0.00355	0.00366	0.00375
	A1	-0.00037	-0.00028	-0.00022
	A1	0.00040	0.00041	0.00042
	A1	-0.00037	-0.00036	-0.00036
	A1	0.00315	0.00324	0.00331
	A2	-0.00037	-0.00028	-0.00022
	A2	0.00025	0.00026	0.00031
	A2	-0.00036	-0.00036	-0.00036
	A2	0.00269	0.00277	0.00283
	A3	-0.00038	-0.00028	-0.00020
	A3	0.00008	0.00009	0.00010
	A3	-0.00037	-0.00036	-0.00035
	A3	0.00218	0.00226	0.00234

Passive power(pJ) for A0N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX4H7H	(A1 * A3 * !Y)	0.00015	0.00018	0.00024
	(A1 * A3 * !Y)	0.00011	0.00012	0.00012
	(A1 * A3 * !Y)	-0.00005	-0.00005	-0.00005
	(A1 * A3 * !Y)	0.00122	0.00125	0.00130
	(A1 * A2 * !A3 * !Y)	0.00015	0.00018	0.00022
	(A1 * A2 * !A3 * !Y)	0.00012	0.00012	0.00013
	(A1 * A2 * !A3 * !Y)	-0.00005	-0.00005	-0.00005
	(A1 * A2 * !A3 * !Y)	0.00122	0.00125	0.00129
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	0.00016	0.00018	0.00022
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	0.00011	0.00012	0.00012
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	-0.00005	-0.00005	-0.00005
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	0.00122	0.00125	0.00129
	(!A1 * A2 * A3 * !Y)	0.00013	0.00016	0.00020
	(!A1 * A2 * A3 * !Y)	0.00012	0.00012	0.00013
	(!A1 * A2 * A3 * !Y)	-0.00005	-0.00005	-0.00005
	(!A1 * A2 * A3 * !Y)	0.00124	0.00127	0.00131

Passive power(pJ) for A0N falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX4H7H	(A1 * A3 * !Y)	0.00151	0.00155	0.00162
	(A1 * A3 * !Y)	-0.00012	-0.00012	-0.00011
	(A1 * A3 * !Y)	0.00005	0.00005	0.00005
	(A1 * A3 * !Y)	0.00044	0.00047	0.00052
	(A1 * A2 * !A3 * !Y)	0.00152	0.00156	0.00162
	(A1 * A2 * !A3 * !Y)	-0.00013	-0.00012	-0.00011
	(A1 * A2 * !A3 * !Y)	0.00005	0.00005	0.00005
	(A1 * A2 * !A3 * !Y)	0.00044	0.00047	0.00052
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	0.00151	0.00155	0.00161
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	-0.00012	-0.00012	-0.00011
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	0.00005	0.00005	0.00005
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	0.00044	0.00047	0.00052
	(!A1 * A2 * A3 * !Y)	0.00154	0.00159	0.00165
	(!A1 * A2 * A3 * !Y)	-0.00013	-0.00012	-0.00012
	(!A1 * A2 * A3 * !Y)	0.00005	0.00005	0.00005
	(!A1 * A2 * A3 * !Y)	0.00044	0.00047	0.00052

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX4H7H	(A0N * A2 * A3 * !Y)	-0.00042	-0.00038	-0.00031
	(A0N * A2 * A3 * !Y)	-0.00008	-0.00007	-0.00007
	(A0N * A2 * A3 * !Y)	0.00001	0.00002	0.00002
	(A0N * A2 * A3 * !Y)	0.00063	0.00064	0.00065
	(A0N * A2 * !A3 * !Y)	-0.00043	-0.00038	-0.00031
	(A0N * A2 * !A3 * !Y)	-0.00008	-0.00007	-0.00007
	(A0N * A2 * !A3 * !Y)	0.00001	0.00001	0.00002
	(A0N * A2 * !A3 * !Y)	0.00064	0.00064	0.00065
	(A0N * !A2 * A3 * !Y)	-0.00040	-0.00035	-0.00028
	(A0N * !A2 * A3 * !Y)	-0.00010	-0.00008	-0.00006
	(A0N * !A2 * A3 * !Y)	0.00001	0.00002	0.00002
	(A0N * !A2 * A3 * !Y)	0.00064	0.00065	0.00066
	(!A0N * A2 * A3 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0N * A2 * A3 * !Y)	-0.00021	-0.00021	-0.00020
	(!A0N * A2 * A3 * !Y)	0.00001	0.00002	0.00002
	(!A0N * A2 * A3 * !Y)	0.00066	0.00067	0.00067
	(!A0N * A2 * !A3 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0N * A2 * !A3 * !Y)	-0.00021	-0.00020	-0.00020
	(!A0N * A2 * !A3 * !Y)	0.00001	0.00002	0.00002
	(!A0N * A2 * !A3 * !Y)	0.00067	0.00067	0.00067
	(!A0N * !A2 * A3 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0N * !A2 * A3 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0N * !A2 * A3 * !Y)	0.00001	0.00001	0.00002
	(!A0N * !A2 * A3 * !Y)	0.00067	0.00067	0.00067
	(!A0N * !A2 * !A3 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0N * !A2 * !A3 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0N * !A2 * !A3 * !Y)	0.00001	0.00002	0.00002
	(!A0N * !A2 * !A3 * !Y)	0.00067	0.00067	0.00067

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX4H7H	(A0N * A2 * A3 * !Y)	0.00042	0.00042	0.00042
	(A0N * A2 * A3 * !Y)	0.00007	0.00007	0.00008
	(A0N * A2 * A3 * !Y)	-0.00002	-0.00001	-0.00001
	(A0N * A2 * A3 * !Y)	-0.00064	-0.00064	-0.00063
	(A0N * A2 * !A3 * !Y)	0.00042	0.00042	0.00043
	(A0N * A2 * !A3 * !Y)	0.00007	0.00007	0.00008
	(A0N * A2 * !A3 * !Y)	-0.00002	-0.00001	-0.00001
	(A0N * A2 * !A3 * !Y)	-0.00064	-0.00064	-0.00064
	(A0N * !A2 * A3 * !Y)	0.00040	0.00040	0.00040
	(A0N * !A2 * A3 * !Y)	0.00006	0.00008	0.00010
	(A0N * !A2 * A3 * !Y)	-0.00002	-0.00001	-0.00001
	(A0N * !A2 * A3 * !Y)	-0.00065	-0.00064	-0.00064
	(!A0N * A2 * A3 * !Y)	0.00007	0.00007	0.00007
	(!A0N * A2 * A3 * !Y)	0.00020	0.00021	0.00021
	(!A0N * A2 * A3 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0N * A2 * A3 * !Y)	-0.00067	-0.00067	-0.00066
	(!A0N * A2 * !A3 * !Y)	0.00007	0.00007	0.00007
	(!A0N * A2 * !A3 * !Y)	0.00020	0.00020	0.00021
	(!A0N * A2 * !A3 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0N * A2 * !A3 * !Y)	-0.00067	-0.00067	-0.00066
	(!A0N * !A2 * A3 * !Y)	0.00006	0.00006	0.00007
	(!A0N * !A2 * A3 * !Y)	0.00020	0.00020	0.00020
	(!A0N * !A2 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0N * !A2 * A3 * !Y)	-0.00067	-0.00067	-0.00066
	(!A0N * !A2 * !A3 * !Y)	0.00007	0.00007	0.00007
	(!A0N * !A2 * !A3 * !Y)	0.00017	0.00017	0.00017
	(!A0N * !A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0N * !A2 * !A3 * !Y)	-0.00067	-0.00067	-0.00066

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX4H7H	(A1 * A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * A3 * !Y)	-0.00020	-0.00020	-0.00020
	(A1 * A3 * !Y)	0.00001	0.00002	0.00003
	(A1 * A3 * !Y)	0.00065	0.00066	0.00067
	(A1 * !A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !A3 * !Y)	-0.00016	-0.00016	-0.00016
	(A1 * !A3 * !Y)	0.00001	0.00001	0.00002
	(A1 * !A3 * !Y)	0.00066	0.00067	0.00067
	(A0N * !A1 * A3 * !Y)	-0.00043	-0.00038	-0.00032
	(A0N * !A1 * A3 * !Y)	-0.00007	-0.00007	-0.00007
	(A0N * !A1 * A3 * !Y)	0.00001	0.00002	0.00002
	(A0N * !A1 * A3 * !Y)	0.00064	0.00064	0.00066
	(!A0N * !A1 * A3 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0N * !A1 * A3 * !Y)	-0.00020	-0.00020	-0.00019
	(!A0N * !A1 * A3 * !Y)	0.00001	0.00001	0.00002
	(!A0N * !A1 * A3 * !Y)	0.00066	0.00067	0.00068
	(!A0N * !A1 * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0N * !A1 * !A3 * !Y)	-0.00017	-0.00016	-0.00015
	(!A0N * !A1 * !A3 * !Y)	0.00001	0.00002	0.00002
	(!A0N * !A1 * !A3 * !Y)	0.00066	0.00067	0.00067

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX4H7H	(A1 * A3 * !Y)	0.00002	0.00002	0.00002
	(A1 * A3 * !Y)	0.00020	0.00020	0.00020
	(A1 * A3 * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * A3 * !Y)	-0.00066	-0.00066	-0.00065
	(A1 * !A3 * !Y)	0.00002	0.00002	0.00002
	(A1 * !A3 * !Y)	0.00017	0.00017	0.00017
	(A1 * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A3 * !Y)	-0.00066	-0.00066	-0.00065
	(A0N * !A1 * A3 * !Y)	0.00043	0.00043	0.00043
	(A0N * !A1 * A3 * !Y)	0.00007	0.00007	0.00007
	(A0N * !A1 * A3 * !Y)	-0.00002	-0.00001	-0.00001
	(A0N * !A1 * A3 * !Y)	-0.00064	-0.00064	-0.00063
	(!A0N * !A1 * A3 * !Y)	0.00003	0.00003	0.00003
	(!A0N * !A1 * A3 * !Y)	0.00019	0.00020	0.00020
	(!A0N * !A1 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0N * !A1 * A3 * !Y)	-0.00067	-0.00067	-0.00066
	(!A0N * !A1 * !A3 * !Y)	0.00002	0.00003	0.00003
	(!A0N * !A1 * !A3 * !Y)	0.00017	0.00017	0.00017
	(!A0N * !A1 * !A3 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0N * !A1 * !A3 * !Y)	-0.00067	-0.00067	-0.00065

Passive power(pJ) for A3 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX4H7H	(A2 * !Y)	-0.00000	-0.00000	-0.00000
	(A2 * !Y)	-0.00011	-0.00011	-0.00011
	(A2 * !Y)	0.00001	0.00002	0.00002
	(A2 * !Y)	0.00085	0.00085	0.00085
	(A1 * !A2 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * !Y)	-0.00011	-0.00011	-0.00010
	(A1 * !A2 * !Y)	0.00001	0.00002	0.00002
	(A1 * !A2 * !Y)	0.00084	0.00085	0.00085
	(!A0N * !A1 * !A2 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0N * !A1 * !A2 * !Y)	-0.00011	-0.00011	-0.00011
	(!A0N * !A1 * !A2 * !Y)	0.00001	0.00002	0.00002
	(!A0N * !A1 * !A2 * !Y)	0.00084	0.00085	0.00085

Passive power(pJ) for A3 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX4H7H	(A2 * !Y)	0.00000	0.00000	0.00000
	(A2 * !Y)	0.00012	0.00012	0.00012
	(A2 * !Y)	-0.00001	-0.00001	0.00000
	(A2 * !Y)	-0.00085	-0.00085	-0.00084
	(A1 * !A2 * !Y)	0.00001	0.00001	0.00002
	(A1 * !A2 * !Y)	0.00010	0.00011	0.00011
	(A1 * !A2 * !Y)	-0.00002	-0.00001	-0.00001
	(A1 * !A2 * !Y)	-0.00085	-0.00084	-0.00083
	(!A0N * !A1 * !A2 * !Y)	0.00000	0.00001	0.00001
	(!A0N * !A1 * !A2 * !Y)	0.00011	0.00012	0.00013
	(!A0N * !A1 * !A2 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0N * !A1 * !A2 * !Y)	-0.00085	-0.00085	-0.00084

NOR4X0P5H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

NOR4, In: A, B, C, D, Out: Y

Truth Table

INPUT				OUTPUT
A0	A1	A2	A3	Y
0	0	0	0	1
0	0	x	1	0
0	x	1	x	0
x	1	x	x	0
1	x	x	x	0

Footprint

Cell Name	Area
NOR4X0P5H7H	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	A2	A3	Y
NOR4X0P5H7H	0.00080	0.00079	0.00084	0.00093	0.00694

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR4X0P5H7H	0.00000	0.00748	0.01297

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4X0P5H7H	A0->Y (FR)	0.13407	0.28695	0.70199
	A1->Y (FR)	0.13020	0.28542	0.71562
	A2->Y (FR)	0.12562	0.28301	0.72960
	A3->Y (FR)	0.11643	0.26734	0.70089

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4X0P5H7H	A0->Y (RF)	0.02521	0.10011	0.33182
	A1->Y (RF)	0.02495	0.09813	0.32839
	A2->Y (RF)	0.02455	0.09602	0.32564
	A3->Y (RF)	0.02370	0.09351	0.32227

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4X0P5H7H	A0	0.00132	0.00135	0.00138
	A0	-0.00014	-0.00014	-0.00014
	A0	0.00009	0.00010	0.00010
	A0	-0.00013	-0.00011	-0.00008
	A1	0.00119	0.00122	0.00124
	A1	-0.00011	-0.00011	-0.00010
	A1	0.00010	0.00010	0.00010
	A1	-0.00008	-0.00005	-0.00002
	A2	0.00107	0.00110	0.00113
	A2	-0.00007	-0.00006	-0.00005
	A2	0.00010	0.00010	0.00010
	A2	-0.00008	-0.00005	-0.00002
	A3	0.00094	0.00097	0.00102
	A3	-0.00002	-0.00002	-0.00002
	A3	0.00009	0.00010	0.00010
	A3	-0.00012	-0.00009	-0.00004

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4X0P5H7H	A0	-0.00009	-0.00007	-0.00006
	A0	0.00014	0.00014	0.00014
	A0	-0.00010	-0.00010	-0.00009
	A0	0.00125	0.00128	0.00131
	A1	-0.00009	-0.00007	-0.00006
	A1	0.00010	0.00011	0.00011
	A1	-0.00010	-0.00010	-0.00010
	A1	0.00110	0.00113	0.00115
	A2	-0.00010	-0.00007	-0.00005
	A2	0.00005	0.00006	0.00007
	A2	-0.00010	-0.00010	-0.00010
	A2	0.00102	0.00104	0.00106
	A3	-0.00010	-0.00007	-0.00004
	A3	0.00002	0.00002	0.00002
	A3	-0.00010	-0.00010	-0.00009
	A3	0.00096	0.00099	0.00102

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X0P5H7H	(A1 * A3 * !Y)	-0.00009	-0.00008	-0.00007
	(A1 * A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * A3 * !Y)	0.00030	0.00030	0.00030
	(A1 * A2 * !A3 * !Y)	-0.00009	-0.00008	-0.00007
	(A1 * A2 * !A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * A2 * !A3 * !Y)	0.00030	0.00030	0.00030
	(A1 * !A2 * !A3 * !Y)	-0.00009	-0.00008	-0.00007
	(A1 * !A2 * !A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !A3 * !Y)	0.00030	0.00030	0.00030
	(!A1 * A2 * A3 * !Y)	-0.00009	-0.00007	-0.00006
	(!A1 * A2 * A3 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * A3 * !Y)	0.00030	0.00030	0.00030
	(!A1 * A2 * !A3 * !Y)	-0.00008	-0.00007	-0.00006
	(!A1 * A2 * !A3 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !A3 * !Y)	0.00030	0.00030	0.00030
	(!A1 * !A2 * A3 * !Y)	-0.00008	-0.00007	-0.00006
	(!A1 * !A2 * A3 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !A2 * A3 * !Y)	0.00030	0.00030	0.00030

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X0P5H7H	(A1 * A3 * !Y)	0.00009	0.00009	0.00009
	(A1 * A3 * !Y)	0.00002	0.00002	0.00002
	(A1 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * A3 * !Y)	-0.00030	-0.00030	-0.00030
	(A1 * A2 * !A3 * !Y)	0.00009	0.00009	0.00009
	(A1 * A2 * !A3 * !Y)	0.00002	0.00002	0.00002
	(A1 * A2 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * A2 * !A3 * !Y)	-0.00030	-0.00030	-0.00030
	(A1 * !A2 * !A3 * !Y)	0.00009	0.00009	0.00009
	(A1 * !A2 * !A3 * !Y)	0.00002	0.00002	0.00002
	(A1 * !A2 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * !A3 * !Y)	-0.00030	-0.00030	-0.00030
	(!A1 * A2 * A3 * !Y)	0.00008	0.00008	0.00009
	(!A1 * A2 * A3 * !Y)	0.00002	0.00002	0.00002
	(!A1 * A2 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * A3 * !Y)	-0.00030	-0.00030	-0.00030
	(!A1 * A2 * !A3 * !Y)	0.00008	0.00009	0.00009
	(!A1 * A2 * !A3 * !Y)	0.00001	0.00002	0.00002
	(!A1 * A2 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !A3 * !Y)	-0.00030	-0.00030	-0.00030
	(!A1 * !A2 * A3 * !Y)	0.00008	0.00008	0.00008
	(!A1 * !A2 * A3 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !A2 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !A2 * A3 * !Y)	-0.00030	-0.00030	-0.00030

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X0P5H7H	(A0 * A2 * A3 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A2 * A3 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * A2 * A3 * !Y)	0.00024	0.00024	0.00024
	(A0 * A2 * !A3 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A2 * !A3 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * A2 * !A3 * !Y)	0.00024	0.00024	0.00024
	(A0 * !A2 * A3 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A2 * A3 * !Y)	-0.00005	-0.00006	-0.00005
	(A0 * !A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * A3 * !Y)	0.00024	0.00024	0.00024
	(A0 * !A2 * !A3 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A2 * !A3 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * !A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !A3 * !Y)	0.00024	0.00024	0.00024
	(!A0 * A2 * A3 * !Y)	-0.00009	-0.00009	-0.00007
	(!A0 * A2 * A3 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * A3 * !Y)	0.00024	0.00024	0.00024
	(!A0 * A2 * !A3 * !Y)	-0.00010	-0.00009	-0.00007
	(!A0 * A2 * !A3 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * !A3 * !Y)	0.00024	0.00024	0.00024
	(!A0 * !A2 * A3 * !Y)	-0.00009	-0.00008	-0.00006
	(!A0 * !A2 * A3 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A2 * A3 * !Y)	0.00024	0.00024	0.00024

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X0P5H7H	(A0 * A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * A2 * A3 * !Y)	0.00006	0.00006	0.00006
	(A0 * A2 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * A3 * !Y)	-0.00024	-0.00024	-0.00024
	(A0 * A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * A2 * !A3 * !Y)	0.00006	0.00006	0.00006
	(A0 * A2 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * !A3 * !Y)	-0.00024	-0.00024	-0.00024
	(A0 * !A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * A3 * !Y)	0.00005	0.00006	0.00005
	(A0 * !A2 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * A3 * !Y)	-0.00024	-0.00024	-0.00024
	(A0 * !A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !A3 * !Y)	0.00005	0.00005	0.00005
	(A0 * !A2 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * !A3 * !Y)	-0.00024	-0.00024	-0.00024
	(!A0 * A2 * A3 * !Y)	0.00009	0.00009	0.00009
	(!A0 * A2 * A3 * !Y)	0.00002	0.00002	0.00002
	(!A0 * A2 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * A3 * !Y)	-0.00024	-0.00024	-0.00024
	(!A0 * A2 * !A3 * !Y)	0.00009	0.00010	0.00010
	(!A0 * A2 * !A3 * !Y)	0.00002	0.00002	0.00002
	(!A0 * A2 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * !A3 * !Y)	-0.00024	-0.00024	-0.00024
	(!A0 * !A2 * A3 * !Y)	0.00009	0.00009	0.00009
	(!A0 * !A2 * A3 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A2 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * A3 * !Y)	-0.00024	-0.00024	-0.00024

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X0P5H7H	(A1 * A3 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * A3 * !Y)	-0.00006	-0.00006	-0.00005
	(A1 * A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * A3 * !Y)	0.00026	0.00026	0.00026
	(A1 * !A3 * !Y)	-0.00000	0.00000	0.00000
	(A1 * !A3 * !Y)	-0.00005	-0.00005	-0.00005
	(A1 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A3 * !Y)	0.00026	0.00026	0.00026
	(A0 * !A1 * A3 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * A3 * !Y)	-0.00005	-0.00006	-0.00005
	(A0 * !A1 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * A3 * !Y)	0.00026	0.00026	0.00026
	(A0 * !A1 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A3 * !Y)	-0.00005	-0.00005	-0.00004
	(A0 * !A1 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A3 * !Y)	0.00026	0.00026	0.00026
	(!A0 * !A1 * A3 * !Y)	-0.00010	-0.00009	-0.00007
	(!A0 * !A1 * A3 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * A3 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * A3 * !Y)	0.00026	0.00026	0.00027

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X0P5H7H	(A1 * A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * A3 * !Y)	0.00005	0.00006	0.00006
	(A1 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * A3 * !Y)	-0.00026	-0.00026	-0.00026
	(A1 * !A3 * !Y)	-0.00000	0.00000	0.00000
	(A1 * !A3 * !Y)	0.00005	0.00005	0.00005
	(A1 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A3 * !Y)	-0.00026	-0.00026	-0.00026
	(A0 * !A1 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * A3 * !Y)	0.00005	0.00006	0.00005
	(A0 * !A1 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * A3 * !Y)	-0.00026	-0.00026	-0.00026
	(A0 * !A1 * !A3 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * !A3 * !Y)	0.00004	0.00005	0.00005
	(A0 * !A1 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !A3 * !Y)	-0.00026	-0.00026	-0.00026
	(!A0 * !A1 * A3 * !Y)	0.00009	0.00010	0.00010
	(!A0 * !A1 * A3 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * A3 * !Y)	-0.00026	-0.00026	-0.00026

Passive power(pJ) for A3 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X0P5H7H	(A2 * !Y)	-0.00000	0.00000	0.00000
	(A2 * !Y)	-0.00003	-0.00003	-0.00003
	(A2 * !Y)	0.00000	0.00000	0.00000
	(A2 * !Y)	0.00036	0.00037	0.00037
	(A1 * !A2 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * !A2 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !Y)	0.00036	0.00037	0.00037
	(A0 * !A1 * !A2 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * !A2 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * !Y)	0.00036	0.00036	0.00037

Passive power(pJ) for A3 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X0P5H7H	(A2 * !Y)	-0.00000	0.00000	0.00000
	(A2 * !Y)	0.00003	0.00003	0.00003
	(A2 * !Y)	-0.00000	-0.00000	-0.00000
	(A2 * !Y)	-0.00037	-0.00037	-0.00036
	(A1 * !A2 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * !A2 * !Y)	0.00003	0.00003	0.00003
	(A1 * !A2 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * !Y)	-0.00037	-0.00036	-0.00036
	(A0 * !A1 * !A2 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * !Y)	0.00003	0.00003	0.00003
	(A0 * !A1 * !A2 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !A2 * !Y)	-0.00037	-0.00036	-0.00036

NOR4X0P7H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

NOR4, In: A, B, C, D, Out: Y

Truth Table

INPUT				OUTPUT
A0	A1	A2	A3	Y
0	0	0	0	1
0	0	x	1	0
0	x	1	x	0
x	1	x	x	0
1	x	x	x	0

Footprint

Cell Name	Area
NOR4X0P7H7H	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	A2	A3	Y
NOR4X0P7H7H	0.00084	0.00083	0.00088	0.00098	0.00799

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR4X0P7H7H	0.00000	0.00843	0.02118

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4X0P7H7H	A0->Y (FR)	0.12501	0.28102	0.70437
	A1->Y (FR)	0.12124	0.27947	0.71839
	A2->Y (FR)	0.11634	0.27681	0.73425
	A3->Y (FR)	0.10636	0.26027	0.70203

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4X0P7H7H	A0->Y (RF)	0.02379	0.09957	0.33693
	A1->Y (RF)	0.02359	0.09754	0.33349
	A2->Y (RF)	0.02311	0.09533	0.33062
	A3->Y (RF)	0.02222	0.09260	0.32721

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4X0P7H7H	A0	0.00143	0.00146	0.00149
	A0	-0.00017	-0.00016	-0.00016
	A0	0.00011	0.00011	0.00011
	A0	-0.00014	-0.00011	-0.00008
	A1	0.00128	0.00131	0.00134
	A1	-0.00012	-0.00012	-0.00012
	A1	0.00011	0.00011	0.00011
	A1	-0.00008	-0.00006	-0.00003
	A2	0.00114	0.00117	0.00121
	A2	-0.00008	-0.00007	-0.00007
	A2	0.00011	0.00011	0.00011
	A2	-0.00008	-0.00006	-0.00002
	A3	0.00099	0.00103	0.00108
	A3	-0.00002	-0.00002	-0.00002
	A3	0.00011	0.00011	0.00011
	A3	-0.00013	-0.00009	-0.00004

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4X0P7H7H	A0	-0.00010	-0.00009	-0.00007
	A0	0.00016	0.00016	0.00017
	A0	-0.00011	-0.00011	-0.00011
	A0	0.00135	0.00138	0.00140
	A1	-0.00011	-0.00008	-0.00007
	A1	0.00012	0.00012	0.00012
	A1	-0.00011	-0.00011	-0.00011
	A1	0.00118	0.00121	0.00123
	A2	-0.00011	-0.00008	-0.00006
	A2	0.00007	0.00007	0.00008
	A2	-0.00011	-0.00011	-0.00011
	A2	0.00109	0.00111	0.00113
	A3	-0.00012	-0.00007	-0.00005
	A3	0.00002	0.00002	0.00003
	A3	-0.00011	-0.00011	-0.00011
	A3	0.00101	0.00104	0.00108

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X0P7H7H	(A1 * A3 * !Y)	-0.00010	-0.00009	-0.00008
	(A1 * A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * A3 * !Y)	0.00031	0.00031	0.00031
	(A1 * A2 * !A3 * !Y)	-0.00010	-0.00009	-0.00008
	(A1 * A2 * !A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * A2 * !A3 * !Y)	0.00031	0.00031	0.00031
	(A1 * !A2 * !A3 * !Y)	-0.00010	-0.00009	-0.00008
	(A1 * !A2 * !A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !A3 * !Y)	0.00030	0.00031	0.00031
	(!A1 * A2 * A3 * !Y)	-0.00010	-0.00009	-0.00007
	(!A1 * A2 * A3 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * A3 * !Y)	0.00031	0.00031	0.00031
	(!A1 * A2 * !A3 * !Y)	-0.00010	-0.00009	-0.00007
	(!A1 * A2 * !A3 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !A3 * !Y)	0.00030	0.00031	0.00031
	(!A1 * !A2 * A3 * !Y)	-0.00009	-0.00008	-0.00007
	(!A1 * !A2 * A3 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !A2 * A3 * !Y)	0.00030	0.00031	0.00031

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X0P7H7H	(A1 * A3 * !Y)	0.00010	0.00010	0.00010
	(A1 * A3 * !Y)	0.00002	0.00002	0.00002
	(A1 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * A3 * !Y)	-0.00031	-0.00031	-0.00031
	(A1 * A2 * !A3 * !Y)	0.00010	0.00010	0.00010
	(A1 * A2 * !A3 * !Y)	0.00002	0.00002	0.00002
	(A1 * A2 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * A2 * !A3 * !Y)	-0.00031	-0.00031	-0.00031
	(A1 * !A2 * !A3 * !Y)	0.00010	0.00010	0.00010
	(A1 * !A2 * !A3 * !Y)	0.00002	0.00002	0.00002
	(A1 * !A2 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * !A3 * !Y)	-0.00031	-0.00031	-0.00030
	(!A1 * A2 * A3 * !Y)	0.00009	0.00010	0.00010
	(!A1 * A2 * A3 * !Y)	0.00002	0.00002	0.00002
	(!A1 * A2 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * A3 * !Y)	-0.00031	-0.00031	-0.00030
	(!A1 * A2 * !A3 * !Y)	0.00010	0.00010	0.00010
	(!A1 * A2 * !A3 * !Y)	0.00002	0.00002	0.00002
	(!A1 * A2 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !A3 * !Y)	-0.00031	-0.00031	-0.00030
	(!A1 * !A2 * A3 * !Y)	0.00009	0.00009	0.00009
	(!A1 * !A2 * A3 * !Y)	0.00002	0.00002	0.00002
	(!A1 * !A2 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !A2 * A3 * !Y)	-0.00031	-0.00031	-0.00030

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X0P7H7H	(A0 * A2 * A3 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A2 * A3 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * A2 * A3 * !Y)	0.00025	0.00025	0.00025
	(A0 * A2 * !A3 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A2 * !A3 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * A2 * !A3 * !Y)	0.00025	0.00025	0.00025
	(A0 * !A2 * A3 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A2 * A3 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * !A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * A3 * !Y)	0.00025	0.00025	0.00025
	(A0 * !A2 * !A3 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A2 * !A3 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * !A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !A3 * !Y)	0.00025	0.00025	0.00025
	(!A0 * A2 * A3 * !Y)	-0.00011	-0.00010	-0.00008
	(!A0 * A2 * A3 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * A3 * !Y)	0.00025	0.00025	0.00025
	(!A0 * A2 * !A3 * !Y)	-0.00011	-0.00010	-0.00008
	(!A0 * A2 * !A3 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * !A3 * !Y)	0.00025	0.00025	0.00025
	(!A0 * !A2 * A3 * !Y)	-0.00010	-0.00009	-0.00007
	(!A0 * !A2 * A3 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * !A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A2 * A3 * !Y)	0.00025	0.00025	0.00025

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X0P7H7H	(A0 * A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * A2 * A3 * !Y)	0.00006	0.00006	0.00006
	(A0 * A2 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * A3 * !Y)	-0.00025	-0.00025	-0.00025
	(A0 * A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * A2 * !A3 * !Y)	0.00006	0.00006	0.00006
	(A0 * A2 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * !A3 * !Y)	-0.00025	-0.00025	-0.00025
	(A0 * !A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * A3 * !Y)	0.00006	0.00006	0.00006
	(A0 * !A2 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * A3 * !Y)	-0.00025	-0.00025	-0.00025
	(A0 * !A2 * !A3 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A2 * !A3 * !Y)	0.00005	0.00005	0.00005
	(A0 * !A2 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * !A3 * !Y)	-0.00025	-0.00025	-0.00025
	(!A0 * A2 * A3 * !Y)	0.00010	0.00011	0.00011
	(!A0 * A2 * A3 * !Y)	0.00002	0.00002	0.00002
	(!A0 * A2 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * A3 * !Y)	-0.00025	-0.00025	-0.00025
	(!A0 * A2 * !A3 * !Y)	0.00011	0.00011	0.00011
	(!A0 * A2 * !A3 * !Y)	0.00002	0.00002	0.00002
	(!A0 * A2 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * !A3 * !Y)	-0.00025	-0.00025	-0.00024
	(!A0 * !A2 * A3 * !Y)	0.00010	0.00010	0.00010
	(!A0 * !A2 * A3 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !A2 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * A3 * !Y)	-0.00025	-0.00025	-0.00025

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X0P7H7H	(A1 * A3 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * A3 * !Y)	-0.00006	-0.00006	-0.00006
	(A1 * A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * A3 * !Y)	0.00027	0.00027	0.00027
	(A1 * !A3 * !Y)	-0.00000	0.00000	0.00000
	(A1 * !A3 * !Y)	-0.00005	-0.00005	-0.00005
	(A1 * !A3 * !Y)	0.00000	0.00000	0.00001
	(A1 * !A3 * !Y)	0.00027	0.00027	0.00027
	(A0 * !A1 * A3 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * A3 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * !A1 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * A3 * !Y)	0.00027	0.00027	0.00027
	(A0 * !A1 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A3 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * !A1 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A3 * !Y)	0.00027	0.00027	0.00027
	(!A0 * !A1 * A3 * !Y)	-0.00010	-0.00009	-0.00008
	(!A0 * !A1 * A3 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * A3 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * A3 * !Y)	0.00027	0.00027	0.00028

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X0P7H7H	(A1 * A3 * !Y)	-0.00000	0.00000	0.00000
	(A1 * A3 * !Y)	0.00006	0.00006	0.00006
	(A1 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * A3 * !Y)	-0.00027	-0.00027	-0.00027
	(A1 * !A3 * !Y)	-0.00000	0.00000	0.00000
	(A1 * !A3 * !Y)	0.00005	0.00005	0.00005
	(A1 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A3 * !Y)	-0.00027	-0.00027	-0.00027
	(A0 * !A1 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * A3 * !Y)	0.00006	0.00006	0.00006
	(A0 * !A1 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * A3 * !Y)	-0.00027	-0.00027	-0.00027
	(A0 * !A1 * !A3 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * !A3 * !Y)	0.00005	0.00005	0.00005
	(A0 * !A1 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !A3 * !Y)	-0.00027	-0.00027	-0.00027
	(!A0 * !A1 * A3 * !Y)	0.00010	0.00010	0.00010
	(!A0 * !A1 * A3 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * A3 * !Y)	-0.00027	-0.00027	-0.00027

Passive power(pJ) for A3 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X0P7H7H	(A2 * !Y)	-0.00000	0.00000	0.00000
	(A2 * !Y)	-0.00003	-0.00003	-0.00003
	(A2 * !Y)	0.00000	0.00000	0.00000
	(A2 * !Y)	0.00038	0.00038	0.00038
	(A1 * !A2 * !Y)	-0.00000	0.00000	0.00000
	(A1 * !A2 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * !A2 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !Y)	0.00038	0.00038	0.00038
	(A0 * !A1 * !A2 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * !A2 * !Y)	0.00000	0.00000	0.00001
	(A0 * !A1 * !A2 * !Y)	0.00038	0.00038	0.00038

Passive power(pJ) for A3 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X0P7H7H	(A2 * !Y)	0.00000	0.00000	0.00000
	(A2 * !Y)	0.00003	0.00003	0.00003
	(A2 * !Y)	-0.00000	-0.00000	-0.00000
	(A2 * !Y)	-0.00038	-0.00038	-0.00038
	(A1 * !A2 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * !A2 * !Y)	0.00003	0.00003	0.00003
	(A1 * !A2 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * !Y)	-0.00038	-0.00038	-0.00037
	(A0 * !A1 * !A2 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * !Y)	0.00003	0.00003	0.00003
	(A0 * !A1 * !A2 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !A2 * !Y)	-0.00038	-0.00038	-0.00037

NOR4X1H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

NOR4, In: A, B, C, D, Out: Y

Truth Table

INPUT				OUTPUT
A0	A1	A2	A3	Y
0	0	0	0	1
0	0	x	1	0
0	x	1	x	0
x	1	x	x	0
1	x	x	x	0

Footprint

Cell Name	Area
NOR4X1H7H	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	A2	A3	Y
NOR4X1H7H	0.00088	0.00092	0.00098	0.00103	0.00971

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR4X1H7H	0.00000	0.01036	0.03877

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4X1H7H	A0->Y (FR)	0.10955	0.26966	0.70481
	A1->Y (FR)	0.10775	0.26969	0.72053
	A2->Y (FR)	0.10211	0.26603	0.73453
	A3->Y (FR)	0.08898	0.24671	0.70150

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4X1H7H	A0->Y (RF)	0.02174	0.09906	0.34565
	A1->Y (RF)	0.02195	0.09733	0.34243
	A2->Y (RF)	0.02146	0.09478	0.33879
	A3->Y (RF)	0.02001	0.09123	0.33525

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4X1H7H	A0	0.00155	0.00158	0.00160
	A0	-0.00020	-0.00020	-0.00020
	A0	0.00013	0.00013	0.00013
	A0	-0.00017	-0.00015	-0.00012
	A1	0.00138	0.00141	0.00144
	A1	-0.00015	-0.00015	-0.00015
	A1	0.00013	0.00013	0.00013
	A1	-0.00013	-0.00010	-0.00007
	A2	0.00120	0.00124	0.00128
	A2	-0.00010	-0.00009	-0.00009
	A2	0.00013	0.00013	0.00013
	A2	-0.00014	-0.00010	-0.00006
	A3	0.00101	0.00105	0.00110
	A3	-0.00003	-0.00003	-0.00002
	A3	0.00013	0.00013	0.00013
	A3	-0.00017	-0.00014	-0.00009

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4X1H7H	**A0**	-0.00012	-0.00010	-0.00008
	A0	0.00020	0.00020	0.00020
	A0	-0.00013	-0.00013	-0.00013
	A0	0.00145	0.00149	0.00152
	A1	-0.00013	-0.00010	-0.00008
	A1	0.00015	0.00015	0.00015
	A1	-0.00013	-0.00013	-0.00012
	A1	0.00130	0.00133	0.00135
	A2	-0.00013	-0.00009	-0.00007
	A2	0.00009	0.00009	0.00010
	A2	-0.00013	-0.00013	-0.00013
	A2	0.00117	0.00120	0.00123
	A3	-0.00013	-0.00009	-0.00005
	A3	0.00002	0.00003	0.00004
	A3	-0.00013	-0.00013	-0.00013
	A3	0.00106	0.00109	0.00112

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X1H7H	(A1 * A3 * !Y)	-0.00012	-0.00011	-0.00009
	(A1 * A3 * !Y)	-0.00003	-0.00003	-0.00002
	(A1 * A3 * !Y)	0.00001	0.00001	0.00001
	(A1 * A3 * !Y)	0.00031	0.00031	0.00031
	(A1 * A2 * !A3 * !Y)	-0.00012	-0.00011	-0.00009
	(A1 * A2 * !A3 * !Y)	-0.00003	-0.00003	-0.00002
	(A1 * A2 * !A3 * !Y)	0.00000	0.00001	0.00001
	(A1 * A2 * !A3 * !Y)	0.00031	0.00031	0.00031
	(A1 * !A2 * !A3 * !Y)	-0.00012	-0.00011	-0.00009
	(A1 * !A2 * !A3 * !Y)	-0.00003	-0.00003	-0.00002
	(A1 * !A2 * !A3 * !Y)	0.00000	0.00001	0.00001
	(A1 * !A2 * !A3 * !Y)	0.00031	0.00031	0.00031
	(!A1 * A2 * A3 * !Y)	-0.00011	-0.00010	-0.00008
	(!A1 * A2 * A3 * !Y)	-0.00003	-0.00003	-0.00002
	(!A1 * A2 * A3 * !Y)	0.00000	0.00001	0.00001
	(!A1 * A2 * A3 * !Y)	0.00031	0.00031	0.00032
	(!A1 * A2 * !A3 * !Y)	-0.00011	-0.00010	-0.00008
	(!A1 * A2 * !A3 * !Y)	-0.00003	-0.00003	-0.00002
	(!A1 * A2 * !A3 * !Y)	0.00000	0.00001	0.00001
	(!A1 * A2 * !A3 * !Y)	0.00031	0.00031	0.00031
	(!A1 * !A2 * A3 * !Y)	-0.00011	-0.00010	-0.00008
	(!A1 * !A2 * A3 * !Y)	-0.00003	-0.00003	-0.00002
	(!A1 * !A2 * A3 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !A2 * A3 * !Y)	0.00031	0.00031	0.00031

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X1H7H	(A1 * A3 * !Y)	0.00012	0.00012	0.00012
	(A1 * A3 * !Y)	0.00003	0.00003	0.00003
	(A1 * A3 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * A3 * !Y)	-0.00031	-0.00031	-0.00031
	(A1 * A2 * !A3 * !Y)	0.00012	0.00012	0.00012
	(A1 * A2 * !A3 * !Y)	0.00003	0.00003	0.00003
	(A1 * A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * A2 * !A3 * !Y)	-0.00031	-0.00031	-0.00031
	(A1 * !A2 * !A3 * !Y)	0.00012	0.00012	0.00012
	(A1 * !A2 * !A3 * !Y)	0.00003	0.00003	0.00003
	(A1 * !A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * !A3 * !Y)	-0.00031	-0.00031	-0.00031
	(!A1 * A2 * A3 * !Y)	0.00011	0.00011	0.00011
	(!A1 * A2 * A3 * !Y)	0.00003	0.00003	0.00003
	(!A1 * A2 * A3 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * A2 * A3 * !Y)	-0.00031	-0.00031	-0.00031
	(!A1 * A2 * !A3 * !Y)	0.00011	0.00011	0.00012
	(!A1 * A2 * !A3 * !Y)	0.00002	0.00003	0.00003
	(!A1 * A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * A2 * !A3 * !Y)	-0.00031	-0.00031	-0.00031
	(!A1 * !A2 * A3 * !Y)	0.00011	0.00011	0.00011
	(!A1 * !A2 * A3 * !Y)	0.00002	0.00003	0.00003
	(!A1 * !A2 * A3 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !A2 * A3 * !Y)	-0.00031	-0.00031	-0.00031

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X1H7H	(A0 * A2 * A3 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A2 * A3 * !Y)	-0.00008	-0.00008	-0.00008
	(A0 * A2 * A3 * !Y)	0.00000	0.00001	0.00001
	(A0 * A2 * A3 * !Y)	0.00028	0.00028	0.00028
	(A0 * A2 * !A3 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A2 * !A3 * !Y)	-0.00008	-0.00008	-0.00008
	(A0 * A2 * !A3 * !Y)	0.00000	0.00001	0.00001
	(A0 * A2 * !A3 * !Y)	0.00028	0.00028	0.00028
	(A0 * !A2 * A3 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A2 * A3 * !Y)	-0.00008	-0.00007	-0.00007
	(A0 * !A2 * A3 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * A3 * !Y)	0.00028	0.00028	0.00028
	(A0 * !A2 * !A3 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A2 * !A3 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * !A2 * !A3 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A2 * !A3 * !Y)	0.00027	0.00028	0.00028
	(!A0 * A2 * A3 * !Y)	-0.00013	-0.00012	-0.00010
	(!A0 * A2 * A3 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A2 * A3 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A2 * A3 * !Y)	0.00027	0.00028	0.00028
	(!A0 * A2 * !A3 * !Y)	-0.00013	-0.00012	-0.00009
	(!A0 * A2 * !A3 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A2 * !A3 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A2 * !A3 * !Y)	0.00027	0.00027	0.00028
	(!A0 * !A2 * A3 * !Y)	-0.00012	-0.00011	-0.00008
	(!A0 * !A2 * A3 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A2 * A3 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !A2 * A3 * !Y)	0.00027	0.00028	0.00028

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X1H7H	(A0 * A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * A2 * A3 * !Y)	0.00008	0.00008	0.00008
	(A0 * A2 * A3 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A2 * A3 * !Y)	-0.00028	-0.00028	-0.00027
	(A0 * A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * A2 * !A3 * !Y)	0.00008	0.00008	0.00008
	(A0 * A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A2 * !A3 * !Y)	-0.00028	-0.00028	-0.00028
	(A0 * !A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * A3 * !Y)	0.00007	0.00007	0.00008
	(A0 * !A2 * A3 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A2 * A3 * !Y)	-0.00028	-0.00028	-0.00027
	(A0 * !A2 * !A3 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A2 * !A3 * !Y)	0.00006	0.00006	0.00007
	(A0 * !A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A2 * !A3 * !Y)	-0.00028	-0.00028	-0.00027
	(!A0 * A2 * A3 * !Y)	0.00012	0.00013	0.00013
	(!A0 * A2 * A3 * !Y)	0.00003	0.00003	0.00003
	(!A0 * A2 * A3 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A2 * A3 * !Y)	-0.00028	-0.00027	-0.00027
	(!A0 * A2 * !A3 * !Y)	0.00013	0.00013	0.00013
	(!A0 * A2 * !A3 * !Y)	0.00003	0.00003	0.00003
	(!A0 * A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A2 * !A3 * !Y)	-0.00028	-0.00027	-0.00027
	(!A0 * !A2 * A3 * !Y)	0.00012	0.00012	0.00012
	(!A0 * !A2 * A3 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !A2 * A3 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A2 * A3 * !Y)	-0.00028	-0.00028	-0.00027

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X1H7H	(A1 * A3 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * A3 * !Y)	-0.00007	-0.00007	-0.00007
	(A1 * A3 * !Y)	0.00000	0.00001	0.00001
	(A1 * A3 * !Y)	0.00030	0.00030	0.00031
	(A1 * !A3 * !Y)	-0.00000	0.00000	0.00000
	(A1 * !A3 * !Y)	-0.00006	-0.00006	-0.00006
	(A1 * !A3 * !Y)	0.00000	0.00001	0.00001
	(A1 * !A3 * !Y)	0.00030	0.00030	0.00031
	(A0 * !A1 * A3 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * A3 * !Y)	-0.00007	-0.00007	-0.00007
	(A0 * !A1 * A3 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * A3 * !Y)	0.00030	0.00030	0.00031
	(A0 * !A1 * !A3 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * !A3 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * !A1 * !A3 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * !A3 * !Y)	0.00030	0.00030	0.00031
	(!A0 * !A1 * A3 * !Y)	-0.00012	-0.00011	-0.00009
	(!A0 * !A1 * A3 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * A3 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * A3 * !Y)	0.00030	0.00030	0.00031

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X1H7H	(A1 * A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * A3 * !Y)	0.00007	0.00007	0.00007
	(A1 * A3 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * A3 * !Y)	-0.00031	-0.00030	-0.00030
	(A1 * !A3 * !Y)	-0.00000	0.00000	0.00000
	(A1 * !A3 * !Y)	0.00006	0.00006	0.00006
	(A1 * !A3 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !A3 * !Y)	-0.00031	-0.00030	-0.00030
	(A0 * !A1 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * A3 * !Y)	0.00007	0.00007	0.00007
	(A0 * !A1 * A3 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * A3 * !Y)	-0.00030	-0.00030	-0.00030
	(A0 * !A1 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A3 * !Y)	0.00006	0.00006	0.00006
	(A0 * !A1 * !A3 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !A3 * !Y)	-0.00030	-0.00030	-0.00030
	(!A0 * !A1 * A3 * !Y)	0.00012	0.00012	0.00012
	(!A0 * !A1 * A3 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * A3 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * A3 * !Y)	-0.00030	-0.00030	-0.00030

Passive power(pJ) for A3 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X1H7H	(A2 * !Y)	-0.00000	0.00000	0.00000
	(A2 * !Y)	-0.00004	-0.00004	-0.00004
	(A2 * !Y)	0.00000	0.00001	0.00001
	(A2 * !Y)	0.00039	0.00040	0.00040
	(A1 * !A2 * !Y)	-0.00000	0.00000	0.00000
	(A1 * !A2 * !Y)	-0.00004	-0.00004	-0.00004
	(A1 * !A2 * !Y)	0.00000	0.00001	0.00001
	(A1 * !A2 * !Y)	0.00040	0.00040	0.00040
	(A0 * !A1 * !A2 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * !A1 * !A2 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * !A2 * !Y)	0.00040	0.00040	0.00040

Passive power(pJ) for A3 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X1H7H	(A2 * !Y)	-0.00000	-0.00000	0.00000
	(A2 * !Y)	0.00004	0.00004	0.00004
	(A2 * !Y)	-0.00001	-0.00001	-0.00000
	(A2 * !Y)	-0.00040	-0.00040	-0.00039
	(A1 * !A2 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * !A2 * !Y)	0.00004	0.00004	0.00004
	(A1 * !A2 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * !Y)	-0.00040	-0.00040	-0.00039
	(A0 * !A1 * !A2 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * !Y)	0.00004	0.00004	0.00004
	(A0 * !A1 * !A2 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !A2 * !Y)	-0.00040	-0.00040	-0.00039

NOR4X1P4H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

NOR4, In: A, B, C, D, Out: Y

Truth Table

INPUT				OUTPUT
A0	A1	A2	A3	Y
0	0	0	0	1
0	0	x	1	0
0	x	1	x	0
x	1	x	x	0
1	x	x	x	0

Footprint

Cell Name	Area
NOR4X1P4H7H	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	A2	A3	Y
NOR4X1P4H7H	0.00099	0.00100	0.00104	0.00114	0.01095

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR4X1P4H7H	0.00000	0.01266	0.06043

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4X1P4H7H	A0->Y (FR)	0.11228	0.27303	0.70943
	A1->Y (FR)	0.10886	0.27165	0.72439
	A2->Y (FR)	0.10211	0.26711	0.73755
	A3->Y (FR)	0.09080	0.24917	0.70676

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4X1P4H7H	A0->Y (RF)	0.02232	0.10066	0.34962
	A1->Y (RF)	0.02223	0.09858	0.34639
	A2->Y (RF)	0.02158	0.09589	0.34256
	A3->Y (RF)	0.02040	0.09265	0.33918

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4X1P4H7H	A0	0.00185	0.00188	0.00191
	A0	-0.00024	-0.00023	-0.00023
	A0	0.00015	0.00015	0.00015
	A0	-0.00012	-0.00008	-0.00005
	A1	0.00164	0.00167	0.00171
	A1	-0.00017	-0.00017	-0.00017
	A1	0.00015	0.00015	0.00015
	A1	-0.00007	-0.00004	-0.00000
	A2	0.00144	0.00147	0.00151
	A2	-0.00011	-0.00011	-0.00010
	A2	0.00015	0.00015	0.00015
	A2	-0.00008	-0.00004	-0.00000
	A3	0.00122	0.00126	0.00132
	A3	-0.00004	-0.00003	-0.00003
	A3	0.00015	0.00015	0.00015
	A3	-0.00012	-0.00008	-0.00002

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4X1P4H7H	A0	-0.00014	-0.00012	-0.00010
	A0	0.00023	0.00023	0.00024
	A0	-0.00015	-0.00015	-0.00015
	A0	0.00165	0.00169	0.00172
	A1	-0.00014	-0.00011	-0.00009
	A1	0.00017	0.00017	0.00017
	A1	-0.00015	-0.00015	-0.00015
	A1	0.00147	0.00150	0.00153
	A2	-0.00015	-0.00011	-0.00009
	A2	0.00010	0.00011	0.00011
	A2	-0.00015	-0.00015	-0.00015
	A2	0.00132	0.00136	0.00138
	A3	-0.00015	-0.00010	-0.00007
	A3	0.00003	0.00003	0.00004
	A3	-0.00015	-0.00015	-0.00014
	A3	0.00119	0.00123	0.00127

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X1P4H7H	(A1 * A3 * !Y)	-0.00014	-0.00012	-0.00011
	(A1 * A3 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * A3 * !Y)	0.00000	0.00001	0.00001
	(A1 * A3 * !Y)	0.00033	0.00033	0.00033
	(A1 * A2 * !A3 * !Y)	-0.00014	-0.00013	-0.00011
	(A1 * A2 * !A3 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * A2 * !A3 * !Y)	0.00000	0.00001	0.00001
	(A1 * A2 * !A3 * !Y)	0.00033	0.00033	0.00033
	(A1 * !A2 * !A3 * !Y)	-0.00014	-0.00013	-0.00011
	(A1 * !A2 * !A3 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * !A2 * !A3 * !Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * !A3 * !Y)	0.00033	0.00033	0.00033
	(!A1 * A2 * A3 * !Y)	-0.00013	-0.00012	-0.00010
	(!A1 * A2 * A3 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1 * A2 * A3 * !Y)	0.00000	0.00001	0.00001
	(!A1 * A2 * A3 * !Y)	0.00033	0.00033	0.00033
	(!A1 * A2 * !A3 * !Y)	-0.00013	-0.00012	-0.00010
	(!A1 * A2 * !A3 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1 * A2 * !A3 * !Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !A3 * !Y)	0.00033	0.00033	0.00033
	(!A1 * !A2 * A3 * !Y)	-0.00013	-0.00011	-0.00009
	(!A1 * !A2 * A3 * !Y)	-0.00003	-0.00003	-0.00002
	(!A1 * !A2 * A3 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * A3 * !Y)	0.00033	0.00033	0.00033

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X1P4H7H	(A1 * A3 * !Y)	0.00013	0.00014	0.00014
	(A1 * A3 * !Y)	0.00003	0.00003	0.00003
	(A1 * A3 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * A3 * !Y)	-0.00033	-0.00033	-0.00033
	(A1 * A2 * !A3 * !Y)	0.00013	0.00014	0.00014
	(A1 * A2 * !A3 * !Y)	0.00003	0.00003	0.00003
	(A1 * A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * A2 * !A3 * !Y)	-0.00033	-0.00033	-0.00033
	(A1 * !A2 * !A3 * !Y)	0.00013	0.00014	0.00014
	(A1 * !A2 * !A3 * !Y)	0.00003	0.00003	0.00003
	(A1 * !A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !A3 * !Y)	-0.00033	-0.00033	-0.00033
	(!A1 * A2 * A3 * !Y)	0.00013	0.00013	0.00013
	(!A1 * A2 * A3 * !Y)	0.00003	0.00003	0.00003
	(!A1 * A2 * A3 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * A2 * A3 * !Y)	-0.00033	-0.00033	-0.00033
	(!A1 * A2 * !A3 * !Y)	0.00013	0.00013	0.00013
	(!A1 * A2 * !A3 * !Y)	0.00003	0.00003	0.00003
	(!A1 * A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !A3 * !Y)	-0.00033	-0.00033	-0.00033
	(!A1 * !A2 * A3 * !Y)	0.00013	0.00013	0.00013
	(!A1 * !A2 * A3 * !Y)	0.00002	0.00003	0.00003
	(!A1 * !A2 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * A3 * !Y)	-0.00033	-0.00033	-0.00033

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X1P4H7H	(A0 * A2 * A3 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A2 * A3 * !Y)	-0.00009	-0.00009	-0.00008
	(A0 * A2 * A3 * !Y)	0.00001	0.00001	0.00001
	(A0 * A2 * A3 * !Y)	0.00029	0.00029	0.00029
	(A0 * A2 * !A3 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A2 * !A3 * !Y)	-0.00009	-0.00009	-0.00008
	(A0 * A2 * !A3 * !Y)	0.00000	0.00001	0.00001
	(A0 * A2 * !A3 * !Y)	0.00029	0.00029	0.00029
	(A0 * !A2 * A3 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A2 * A3 * !Y)	-0.00008	-0.00008	-0.00008
	(A0 * !A2 * A3 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A2 * A3 * !Y)	0.00029	0.00029	0.00029
	(A0 * !A2 * !A3 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A2 * !A3 * !Y)	-0.00007	-0.00007	-0.00007
	(A0 * !A2 * !A3 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * !A3 * !Y)	0.00029	0.00029	0.00029
	(!A0 * A2 * A3 * !Y)	-0.00014	-0.00013	-0.00010
	(!A0 * A2 * A3 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A2 * A3 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * A3 * !Y)	0.00029	0.00029	0.00029
	(!A0 * A2 * !A3 * !Y)	-0.00014	-0.00013	-0.00010
	(!A0 * A2 * !A3 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A2 * !A3 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * !A3 * !Y)	0.00028	0.00029	0.00029
	(!A0 * !A2 * A3 * !Y)	-0.00013	-0.00012	-0.00009
	(!A0 * !A2 * A3 * !Y)	-0.00004	-0.00003	-0.00002
	(!A0 * !A2 * A3 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A2 * A3 * !Y)	0.00029	0.00029	0.00029

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X1P4H7H	(A0 * A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * A2 * A3 * !Y)	0.00008	0.00009	0.00009
	(A0 * A2 * A3 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A2 * A3 * !Y)	-0.00029	-0.00029	-0.00029
	(A0 * A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * A2 * !A3 * !Y)	0.00008	0.00009	0.00009
	(A0 * A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A2 * !A3 * !Y)	-0.00029	-0.00029	-0.00029
	(A0 * !A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * A3 * !Y)	0.00008	0.00008	0.00008
	(A0 * !A2 * A3 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A2 * A3 * !Y)	-0.00029	-0.00029	-0.00029
	(A0 * !A2 * !A3 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A2 * !A3 * !Y)	0.00007	0.00007	0.00007
	(A0 * !A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A2 * !A3 * !Y)	-0.00029	-0.00029	-0.00029
	(!A0 * A2 * A3 * !Y)	0.00014	0.00014	0.00014
	(!A0 * A2 * A3 * !Y)	0.00003	0.00003	0.00003
	(!A0 * A2 * A3 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A2 * A3 * !Y)	-0.00029	-0.00029	-0.00028
	(!A0 * A2 * !A3 * !Y)	0.00014	0.00014	0.00014
	(!A0 * A2 * !A3 * !Y)	0.00003	0.00003	0.00003
	(!A0 * A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A2 * !A3 * !Y)	-0.00029	-0.00029	-0.00028
	(!A0 * !A2 * A3 * !Y)	0.00013	0.00013	0.00013
	(!A0 * !A2 * A3 * !Y)	0.00002	0.00003	0.00004
	(!A0 * !A2 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * A3 * !Y)	-0.00029	-0.00029	-0.00028

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X1P4H7H	(A1 * A3 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * A3 * !Y)	-0.00009	-0.00009	-0.00008
	(A1 * A3 * !Y)	0.00000	0.00001	0.00001
	(A1 * A3 * !Y)	0.00031	0.00031	0.00031
	(A1 * !A3 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * !A3 * !Y)	-0.00007	-0.00007	-0.00007
	(A1 * !A3 * !Y)	0.00000	0.00001	0.00001
	(A1 * !A3 * !Y)	0.00031	0.00031	0.00031
	(A0 * !A1 * A3 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * A3 * !Y)	-0.00008	-0.00008	-0.00008
	(A0 * !A1 * A3 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * A3 * !Y)	0.00031	0.00031	0.00031
	(A0 * !A1 * !A3 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * !A3 * !Y)	-0.00007	-0.00007	-0.00007
	(A0 * !A1 * !A3 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !A3 * !Y)	0.00031	0.00031	0.00031
	(!A0 * !A1 * A3 * !Y)	-0.00014	-0.00013	-0.00010
	(!A0 * !A1 * A3 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * A3 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * A3 * !Y)	0.00031	0.00031	0.00031

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X1P4H7H	(A1 * A3 * !Y)	-0.00000	0.00000	0.00000
	(A1 * A3 * !Y)	0.00008	0.00009	0.00009
	(A1 * A3 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * A3 * !Y)	-0.00031	-0.00031	-0.00030
	(A1 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A3 * !Y)	0.00007	0.00007	0.00007
	(A1 * !A3 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !A3 * !Y)	-0.00031	-0.00031	-0.00031
	(A0 * !A1 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * A3 * !Y)	0.00008	0.00008	0.00008
	(A0 * !A1 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * A3 * !Y)	-0.00031	-0.00031	-0.00030
	(A0 * !A1 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A3 * !Y)	0.00007	0.00007	0.00007
	(A0 * !A1 * !A3 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !A3 * !Y)	-0.00031	-0.00031	-0.00030
	(!A0 * !A1 * A3 * !Y)	0.00014	0.00014	0.00014
	(!A0 * !A1 * A3 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * A3 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * A3 * !Y)	-0.00031	-0.00030	-0.00030

Passive power(pJ) for A3 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X1P4H7H	(A2 * !Y)	-0.00000	0.00000	0.00000
	(A2 * !Y)	-0.00005	-0.00005	-0.00004
	(A2 * !Y)	0.00000	0.00001	0.00001
	(A2 * !Y)	0.00042	0.00043	0.00043
	(A1 * !A2 * !Y)	-0.00000	0.00000	0.00000
	(A1 * !A2 * !Y)	-0.00004	-0.00004	-0.00004
	(A1 * !A2 * !Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * !Y)	0.00042	0.00043	0.00043
	(A0 * !A1 * !A2 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * !A1 * !A2 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !A2 * !Y)	0.00042	0.00043	0.00043

Passive power(pJ) for A3 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X1P4H7H	(A2 * !Y)	-0.00000	0.00000	0.00000
	(A2 * !Y)	0.00005	0.00005	0.00005
	(A2 * !Y)	-0.00001	-0.00001	-0.00000
	(A2 * !Y)	-0.00043	-0.00042	-0.00042
	(A1 * !A2 * !Y)	-0.00000	0.00000	0.00000
	(A1 * !A2 * !Y)	0.00005	0.00005	0.00005
	(A1 * !A2 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !Y)	-0.00043	-0.00042	-0.00042
	(A0 * !A1 * !A2 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * !A2 * !Y)	0.00004	0.00005	0.00005
	(A0 * !A1 * !A2 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !A2 * !Y)	-0.00043	-0.00042	-0.00042

NOR4X2H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

NOR4, In: A, B, C, D, Out: Y

Truth Table

INPUT				OUTPUT
A0	A1	A2	A3	Y
0	0	0	0	1
0	0	x	1	0
0	x	1	x	0
x	1	x	x	0
1	x	x	x	0

Footprint

Cell Name	Area
NOR4X2H7H	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	A2	A3	Y
NOR4X2H7H	0.00108	0.00111	0.00111	0.00120	0.01284

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR4X2H7H	0.00000	0.01664	0.09839

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4X2H7H	A0->Y (FR)	0.10105	0.26572	0.71277
	A1->Y (FR)	0.09854	0.26477	0.72738
	A2->Y (FR)	0.09023	0.25846	0.73959
	A3->Y (FR)	0.07714	0.23868	0.70618

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4X2H7H	A0->Y (RF)	0.01971	0.09747	0.34801
	A1->Y (RF)	0.01989	0.09556	0.34528
	A2->Y (RF)	0.01920	0.09252	0.34091
	A3->Y (RF)	0.01791	0.08872	0.33738

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4X2H7H	A0	0.00197	0.00200	0.00204
	A0	-0.00028	-0.00028	-0.00027
	A0	0.00018	0.00018	0.00018
	A0	-0.00017	-0.00014	-0.00010
	A1	0.00174	0.00177	0.00181
	A1	-0.00021	-0.00021	-0.00020
	A1	0.00018	0.00018	0.00018
	A1	-0.00012	-0.00009	-0.00005
	A2	0.00148	0.00151	0.00155
	A2	-0.00014	-0.00013	-0.00012
	A2	0.00018	0.00018	0.00018
	A2	-0.00012	-0.00009	-0.00005
	A3	0.00121	0.00126	0.00132
	A3	-0.00005	-0.00004	-0.00004
	A3	0.00018	0.00018	0.00018
	A3	-0.00017	-0.00012	-0.00007

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4X2H7H	**A0**	-0.00016	-0.00013	-0.00011
	A0	0.00027	0.00028	0.00028
	A0	-0.00018	-0.00018	-0.00018
	A0	0.00177	0.00182	0.00186
	A1	-0.00016	-0.00013	-0.00011
	A1	0.00020	0.00021	0.00021
	A1	-0.00018	-0.00018	-0.00016
	A1	0.00157	0.00161	0.00164
	A2	-0.00016	-0.00012	-0.00010
	A2	0.00012	0.00013	0.00014
	A2	-0.00018	-0.00018	-0.00018
	A2	0.00138	0.00142	0.00145
	A3	-0.00017	-0.00012	-0.00008
	A3	0.00004	0.00004	0.00005
	A3	-0.00018	-0.00018	-0.00018
	A3	0.00121	0.00125	0.00129

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X2H7H	(A1 * A3 * !Y)	-0.00016	-0.00015	-0.00013
	(A1 * A3 * !Y)	-0.00004	-0.00003	-0.00003
	(A1 * A3 * !Y)	0.00000	0.00001	0.00001
	(A1 * A3 * !Y)	0.00035	0.00035	0.00035
	(A1 * A2 * !A3 * !Y)	-0.00016	-0.00015	-0.00013
	(A1 * A2 * !A3 * !Y)	-0.00004	-0.00003	-0.00003
	(A1 * A2 * !A3 * !Y)	0.00001	0.00001	0.00001
	(A1 * A2 * !A3 * !Y)	0.00035	0.00035	0.00035
	(A1 * !A2 * !A3 * !Y)	-0.00016	-0.00015	-0.00012
	(A1 * !A2 * !A3 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * !A2 * !A3 * !Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * !A3 * !Y)	0.00035	0.00035	0.00035
	(!A1 * A2 * A3 * !Y)	-0.00016	-0.00014	-0.00011
	(!A1 * A2 * A3 * !Y)	-0.00004	-0.00003	-0.00003
	(!A1 * A2 * A3 * !Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * A3 * !Y)	0.00034	0.00035	0.00035
	(!A1 * A2 * !A3 * !Y)	-0.00016	-0.00014	-0.00011
	(!A1 * A2 * !A3 * !Y)	-0.00004	-0.00003	-0.00003
	(!A1 * A2 * !A3 * !Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !A3 * !Y)	0.00034	0.00035	0.00035
	(!A1 * !A2 * A3 * !Y)	-0.00015	-0.00013	-0.00011
	(!A1 * !A2 * A3 * !Y)	-0.00004	-0.00004	-0.00003
	(!A1 * !A2 * A3 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * A3 * !Y)	0.00034	0.00035	0.00035

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X2H7H	(A1 * A3 * !Y)	0.00016	0.00016	0.00016
	(A1 * A3 * !Y)	0.00003	0.00003	0.00004
	(A1 * A3 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * A3 * !Y)	-0.00035	-0.00035	-0.00035
	(A1 * A2 * !A3 * !Y)	0.00016	0.00016	0.00016
	(A1 * A2 * !A3 * !Y)	0.00003	0.00003	0.00004
	(A1 * A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * !A3 * !Y)	-0.00035	-0.00035	-0.00035
	(A1 * !A2 * !A3 * !Y)	0.00016	0.00016	0.00016
	(A1 * !A2 * !A3 * !Y)	0.00003	0.00003	0.00003
	(A1 * !A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !A3 * !Y)	-0.00035	-0.00035	-0.00035
	(!A1 * A2 * A3 * !Y)	0.00015	0.00015	0.00016
	(!A1 * A2 * A3 * !Y)	0.00003	0.00003	0.00004
	(!A1 * A2 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * A3 * !Y)	-0.00035	-0.00035	-0.00034
	(!A1 * A2 * !A3 * !Y)	0.00015	0.00015	0.00016
	(!A1 * A2 * !A3 * !Y)	0.00003	0.00003	0.00004
	(!A1 * A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !A3 * !Y)	-0.00035	-0.00035	-0.00034
	(!A1 * !A2 * A3 * !Y)	0.00015	0.00015	0.00015
	(!A1 * !A2 * A3 * !Y)	0.00003	0.00004	0.00004
	(!A1 * !A2 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * A3 * !Y)	-0.00035	-0.00035	-0.00034

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X2H7H	(A0 * A2 * A3 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A2 * A3 * !Y)	-0.00010	-0.00010	-0.00010
	(A0 * A2 * A3 * !Y)	0.00000	0.00001	0.00001
	(A0 * A2 * A3 * !Y)	0.00031	0.00031	0.00031
	(A0 * A2 * !A3 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A2 * !A3 * !Y)	-0.00010	-0.00010	-0.00010
	(A0 * A2 * !A3 * !Y)	0.00001	0.00001	0.00001
	(A0 * A2 * !A3 * !Y)	0.00031	0.00031	0.00031
	(A0 * !A2 * A3 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A2 * A3 * !Y)	-0.00010	-0.00010	-0.00010
	(A0 * !A2 * A3 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * A3 * !Y)	0.00030	0.00031	0.00031
	(A0 * !A2 * !A3 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A2 * !A3 * !Y)	-0.00008	-0.00008	-0.00008
	(A0 * !A2 * !A3 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * !A3 * !Y)	0.00030	0.00031	0.00031
	(!A0 * A2 * A3 * !Y)	-0.00017	-0.00015	-0.00013
	(!A0 * A2 * A3 * !Y)	-0.00004	-0.00003	-0.00003
	(!A0 * A2 * A3 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * A3 * !Y)	0.00030	0.00030	0.00031
	(!A0 * A2 * !A3 * !Y)	-0.00017	-0.00015	-0.00013
	(!A0 * A2 * !A3 * !Y)	-0.00004	-0.00003	-0.00003
	(!A0 * A2 * !A3 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * !A3 * !Y)	0.00030	0.00030	0.00031
	(!A0 * !A2 * A3 * !Y)	-0.00016	-0.00014	-0.00011
	(!A0 * !A2 * A3 * !Y)	-0.00004	-0.00003	-0.00003
	(!A0 * !A2 * A3 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A2 * A3 * !Y)	0.00030	0.00030	0.00031

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X2H7H	(A0 * A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * A2 * A3 * !Y)	0.00010	0.00010	0.00010
	(A0 * A2 * A3 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A2 * A3 * !Y)	-0.00031	-0.00031	-0.00030
	(A0 * A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * A2 * !A3 * !Y)	0.00010	0.00010	0.00010
	(A0 * A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A2 * !A3 * !Y)	-0.00031	-0.00031	-0.00030
	(A0 * !A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * A3 * !Y)	0.00010	0.00010	0.00010
	(A0 * !A2 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * A3 * !Y)	-0.00031	-0.00031	-0.00030
	(A0 * !A2 * !A3 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A2 * !A3 * !Y)	0.00009	0.00009	0.00009
	(A0 * !A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !A3 * !Y)	-0.00031	-0.00030	-0.00030
	(!A0 * A2 * A3 * !Y)	0.00017	0.00017	0.00017
	(!A0 * A2 * A3 * !Y)	0.00003	0.00004	0.00004
	(!A0 * A2 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * A3 * !Y)	-0.00031	-0.00030	-0.00030
	(!A0 * A2 * !A3 * !Y)	0.00017	0.00017	0.00017
	(!A0 * A2 * !A3 * !Y)	0.00003	0.00003	0.00004
	(!A0 * A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * !A3 * !Y)	-0.00031	-0.00030	-0.00030
	(!A0 * !A2 * A3 * !Y)	0.00016	0.00016	0.00016
	(!A0 * !A2 * A3 * !Y)	0.00003	0.00003	0.00004
	(!A0 * !A2 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * A3 * !Y)	-0.00031	-0.00030	-0.00030

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X2H7H	(A1 * A3 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * A3 * !Y)	-0.00010	-0.00010	-0.00010
	(A1 * A3 * !Y)	0.00000	0.00001	0.00001
	(A1 * A3 * !Y)	0.00031	0.00031	0.00031
	(A1 * !A3 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * !A3 * !Y)	-0.00008	-0.00008	-0.00008
	(A1 * !A3 * !Y)	0.00001	0.00001	0.00001
	(A1 * !A3 * !Y)	0.00031	0.00031	0.00031
	(A0 * !A1 * A3 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * A3 * !Y)	-0.00010	-0.00010	-0.00010
	(A0 * !A1 * A3 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * A3 * !Y)	0.00031	0.00031	0.00031
	(A0 * !A1 * !A3 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * !A3 * !Y)	-0.00008	-0.00008	-0.00008
	(A0 * !A1 * !A3 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !A3 * !Y)	0.00031	0.00031	0.00031
	(!A0 * !A1 * A3 * !Y)	-0.00017	-0.00015	-0.00012
	(!A0 * !A1 * A3 * !Y)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * A3 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * A3 * !Y)	0.00031	0.00031	0.00032

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X2H7H	(A1 * A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * A3 * !Y)	0.00010	0.00010	0.00010
	(A1 * A3 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * A3 * !Y)	-0.00031	-0.00031	-0.00031
	(A1 * !A3 * !Y)	-0.00000	0.00000	0.00000
	(A1 * !A3 * !Y)	0.00009	0.00009	0.00009
	(A1 * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A3 * !Y)	-0.00031	-0.00031	-0.00031
	(A0 * !A1 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * A3 * !Y)	0.00010	0.00010	0.00010
	(A0 * !A1 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * A3 * !Y)	-0.00031	-0.00031	-0.00031
	(A0 * !A1 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A3 * !Y)	0.00008	0.00008	0.00008
	(A0 * !A1 * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !A3 * !Y)	-0.00031	-0.00031	-0.00030
	(!A0 * !A1 * A3 * !Y)	0.00017	0.00017	0.00017
	(!A0 * !A1 * A3 * !Y)	0.00003	0.00003	0.00004
	(!A0 * !A1 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * A3 * !Y)	-0.00031	-0.00031	-0.00030

Passive power(pJ) for A3 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X2H7H	(A2 * !Y)	-0.00000	0.00000	0.00000
	(A2 * !Y)	-0.00006	-0.00006	-0.00005
	(A2 * !Y)	0.00001	0.00001	0.00001
	(A2 * !Y)	0.00043	0.00044	0.00044
	(A1 * !A2 * !Y)	-0.00000	0.00000	0.00000
	(A1 * !A2 * !Y)	-0.00005	-0.00005	-0.00005
	(A1 * !A2 * !Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * !Y)	0.00043	0.00044	0.00044
	(A0 * !A1 * !A2 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * !A1 * !A2 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !A2 * !Y)	0.00043	0.00044	0.00044

Passive power(pJ) for A3 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X2H7H	(A2 * !Y)	-0.00000	-0.00000	0.00000
	(A2 * !Y)	0.00006	0.00006	0.00006
	(A2 * !Y)	-0.00001	-0.00001	-0.00001
	(A2 * !Y)	-0.00044	-0.00043	-0.00043
	(A1 * !A2 * !Y)	-0.00000	0.00000	0.00000
	(A1 * !A2 * !Y)	0.00006	0.00006	0.00006
	(A1 * !A2 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !Y)	-0.00044	-0.00043	-0.00043
	(A0 * !A1 * !A2 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * !Y)	0.00005	0.00006	0.00006
	(A0 * !A1 * !A2 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !A2 * !Y)	-0.00043	-0.00043	-0.00043

NOR4X3H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

NOR4, In: A, B, C, D, Out: Y

Truth Table

INPUT				OUTPUT
A0	A1	A2	A3	Y
0	0	0	0	1
0	0	x	1	0
0	x	1	x	0
x	1	x	x	0
1	x	x	x	0

Footprint

Cell Name	Area
NOR4X3H7H	3.64000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	A2	A3	Y
NOR4X3H7H	0.00191	0.00188	0.00187	0.00200	0.02016

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR4X3H7H	0.00000	0.02247	0.09531

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4X3H7H	A0->Y (FR)	0.10735	0.27262	0.71820
	A1->Y (FR)	0.10422	0.27027	0.73101
	A2->Y (FR)	0.09373	0.26116	0.73997
	A3->Y (FR)	0.07470	0.23499	0.69921

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4X3H7H	A0->Y (RF)	0.02003	0.09794	0.34722
	A1->Y (RF)	0.02014	0.09585	0.34379
	A2->Y (RF)	0.01954	0.09254	0.33906
	A3->Y (RF)	0.01786	0.08772	0.33388

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4X3H7H	A0	0.00365	0.00371	0.00377
	A0	-0.00042	-0.00042	-0.00041
	A0	0.00028	0.00028	0.00028
	A0	-0.00011	-0.00005	0.00002
	A1	0.00317	0.00323	0.00330
	A1	-0.00032	-0.00031	-0.00030
	A1	0.00028	0.00028	0.00028
	A1	-0.00009	-0.00003	0.00004
	A2	0.00266	0.00271	0.00278
	A2	-0.00022	-0.00019	-0.00016
	A2	0.00028	0.00028	0.00028
	A2	-0.00014	-0.00008	-0.00002
	A3	0.00207	0.00216	0.00226
	A3	-0.00007	-0.00006	-0.00003
	A3	0.00028	0.00028	0.00028
	A3	-0.00023	-0.00016	-0.00007

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4X3H7H	**A0**	-0.00028	-0.00023	-0.00018
	A0	0.00041	0.00042	0.00042
	A0	-0.00028	-0.00028	-0.00027
	A0	0.00308	0.00317	0.00323
	A1	-0.00028	-0.00021	-0.00017
	A1	0.00030	0.00031	0.00032
	A1	-0.00028	-0.00028	-0.00028
	A1	0.00275	0.00282	0.00288
	A2	-0.00025	-0.00017	-0.00012
	A2	0.00016	0.00019	0.00022
	A2	-0.00028	-0.00028	-0.00028
	A2	0.00244	0.00250	0.00256
	A3	-0.00024	-0.00015	-0.00007
	A3	0.00003	0.00006	0.00008
	A3	-0.00028	-0.00028	-0.00027
	A3	0.00208	0.00216	0.00221

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X3H7H	(A1 * A3 * !Y)	-0.00028	-0.00025	-0.00020
	(A1 * A3 * !Y)	-0.00006	-0.00006	-0.00006
	(A1 * A3 * !Y)	0.00001	0.00001	0.00001
	(A1 * A3 * !Y)	0.00060	0.00060	0.00061
	(A1 * A2 * !A3 * !Y)	-0.00028	-0.00025	-0.00020
	(A1 * A2 * !A3 * !Y)	-0.00006	-0.00006	-0.00006
	(A1 * A2 * !A3 * !Y)	0.00001	0.00001	0.00001
	(A1 * A2 * !A3 * !Y)	0.00060	0.00060	0.00060
	(A1 * !A2 * !A3 * !Y)	-0.00028	-0.00025	-0.00020
	(A1 * !A2 * !A3 * !Y)	-0.00006	-0.00006	-0.00006
	(A1 * !A2 * !A3 * !Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * !A3 * !Y)	0.00060	0.00060	0.00060
	(!A1 * A2 * A3 * !Y)	-0.00027	-0.00023	-0.00018
	(!A1 * A2 * A3 * !Y)	-0.00006	-0.00006	-0.00005
	(!A1 * A2 * A3 * !Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * A3 * !Y)	0.00060	0.00060	0.00060
	(!A1 * A2 * !A3 * !Y)	-0.00027	-0.00023	-0.00018
	(!A1 * A2 * !A3 * !Y)	-0.00006	-0.00006	-0.00005
	(!A1 * A2 * !A3 * !Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !A3 * !Y)	0.00060	0.00060	0.00060
	(!A1 * !A2 * A3 * !Y)	-0.00026	-0.00022	-0.00018
	(!A1 * !A2 * A3 * !Y)	-0.00007	-0.00006	-0.00005
	(!A1 * !A2 * A3 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * A3 * !Y)	0.00060	0.00060	0.00061

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X3H7H	(A1 * A3 * !Y)	0.00028	0.00028	0.00028
	(A1 * A3 * !Y)	0.00006	0.00006	0.00006
	(A1 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * A3 * !Y)	-0.00060	-0.00060	-0.00059
	(A1 * A2 * !A3 * !Y)	0.00028	0.00028	0.00028
	(A1 * A2 * !A3 * !Y)	0.00006	0.00006	0.00006
	(A1 * A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * !A3 * !Y)	-0.00060	-0.00060	-0.00059
	(A1 * !A2 * !A3 * !Y)	0.00028	0.00028	0.00028
	(A1 * !A2 * !A3 * !Y)	0.00006	0.00006	0.00006
	(A1 * !A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !A3 * !Y)	-0.00060	-0.00060	-0.00059
	(!A1 * A2 * A3 * !Y)	0.00027	0.00027	0.00027
	(!A1 * A2 * A3 * !Y)	0.00005	0.00006	0.00006
	(!A1 * A2 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * A3 * !Y)	-0.00060	-0.00060	-0.00059
	(!A1 * A2 * !A3 * !Y)	0.00027	0.00027	0.00027
	(!A1 * A2 * !A3 * !Y)	0.00005	0.00006	0.00006
	(!A1 * A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !A3 * !Y)	-0.00060	-0.00060	-0.00059
	(!A1 * !A2 * A3 * !Y)	0.00026	0.00026	0.00026
	(!A1 * !A2 * A3 * !Y)	0.00005	0.00006	0.00007
	(!A1 * !A2 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * A3 * !Y)	-0.00060	-0.00060	-0.00059

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X3H7H	(A0 * A2 * A3 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A2 * A3 * !Y)	-0.00016	-0.00016	-0.00016
	(A0 * A2 * A3 * !Y)	0.00001	0.00001	0.00001
	(A0 * A2 * A3 * !Y)	0.00057	0.00057	0.00057
	(A0 * A2 * !A3 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A2 * !A3 * !Y)	-0.00016	-0.00016	-0.00016
	(A0 * A2 * !A3 * !Y)	0.00001	0.00001	0.00001
	(A0 * A2 * !A3 * !Y)	0.00057	0.00057	0.00057
	(A0 * !A2 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * A3 * !Y)	-0.00016	-0.00015	-0.00015
	(A0 * !A2 * A3 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * A3 * !Y)	0.00057	0.00057	0.00058
	(A0 * !A2 * !A3 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A2 * !A3 * !Y)	-0.00013	-0.00013	-0.00013
	(A0 * !A2 * !A3 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * !A3 * !Y)	0.00057	0.00057	0.00057
	(!A0 * A2 * A3 * !Y)	-0.00034	-0.00031	-0.00026
	(!A0 * A2 * A3 * !Y)	-0.00006	-0.00006	-0.00005
	(!A0 * A2 * A3 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * A3 * !Y)	0.00053	0.00054	0.00054
	(!A0 * A2 * !A3 * !Y)	-0.00035	-0.00031	-0.00026
	(!A0 * A2 * !A3 * !Y)	-0.00006	-0.00006	-0.00005
	(!A0 * A2 * !A3 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * !A3 * !Y)	0.00054	0.00054	0.00055
	(!A0 * !A2 * A3 * !Y)	-0.00033	-0.00029	-0.00024
	(!A0 * !A2 * A3 * !Y)	-0.00006	-0.00005	-0.00004
	(!A0 * !A2 * A3 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A2 * A3 * !Y)	0.00054	0.00054	0.00055

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X3H7H	(A0 * A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * A2 * A3 * !Y)	0.00016	0.00016	0.00016
	(A0 * A2 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A2 * A3 * !Y)	-0.00057	-0.00057	-0.00056
	(A0 * A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * A2 * !A3 * !Y)	0.00016	0.00016	0.00016
	(A0 * A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A2 * !A3 * !Y)	-0.00057	-0.00057	-0.00057
	(A0 * !A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * A3 * !Y)	0.00015	0.00015	0.00016
	(A0 * !A2 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * A3 * !Y)	-0.00057	-0.00057	-0.00057
	(A0 * !A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !A3 * !Y)	0.00013	0.00013	0.00014
	(A0 * !A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !A3 * !Y)	-0.00057	-0.00057	-0.00057
	(!A0 * A2 * A3 * !Y)	0.00034	0.00034	0.00034
	(!A0 * A2 * A3 * !Y)	0.00006	0.00006	0.00006
	(!A0 * A2 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * A3 * !Y)	-0.00054	-0.00054	-0.00053
	(!A0 * A2 * !A3 * !Y)	0.00034	0.00034	0.00035
	(!A0 * A2 * !A3 * !Y)	0.00005	0.00006	0.00006
	(!A0 * A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * !A3 * !Y)	-0.00054	-0.00054	-0.00053
	(!A0 * !A2 * A3 * !Y)	0.00033	0.00033	0.00033
	(!A0 * !A2 * A3 * !Y)	0.00004	0.00005	0.00006
	(!A0 * !A2 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * A3 * !Y)	-0.00054	-0.00054	-0.00053

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X3H7H	(A1 * A3 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * A3 * !Y)	-0.00016	-0.00016	-0.00015
	(A1 * A3 * !Y)	0.00001	0.00001	0.00001
	(A1 * A3 * !Y)	0.00057	0.00057	0.00057
	(A1 * !A3 * !Y)	-0.00000	0.00000	0.00000
	(A1 * !A3 * !Y)	-0.00013	-0.00013	-0.00013
	(A1 * !A3 * !Y)	0.00001	0.00001	0.00001
	(A1 * !A3 * !Y)	0.00057	0.00057	0.00057
	(A0 * !A1 * A3 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * A3 * !Y)	-0.00015	-0.00015	-0.00015
	(A0 * !A1 * A3 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * A3 * !Y)	0.00056	0.00057	0.00057
	(A0 * !A1 * !A3 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * !A3 * !Y)	-0.00013	-0.00013	-0.00012
	(A0 * !A1 * !A3 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !A3 * !Y)	0.00057	0.00057	0.00058
	(!A0 * !A1 * A3 * !Y)	-0.00034	-0.00030	-0.00024
	(!A0 * !A1 * A3 * !Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !A1 * A3 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * A3 * !Y)	0.00053	0.00054	0.00055

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X3H7H	(A1 * A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * A3 * !Y)	0.00015	0.00016	0.00016
	(A1 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * A3 * !Y)	-0.00057	-0.00057	-0.00056
	(A1 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A3 * !Y)	0.00013	0.00013	0.00013
	(A1 * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A3 * !Y)	-0.00057	-0.00057	-0.00057
	(A0 * !A1 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * A3 * !Y)	0.00015	0.00015	0.00015
	(A0 * !A1 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * A3 * !Y)	-0.00057	-0.00056	-0.00056
	(A0 * !A1 * !A3 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * !A3 * !Y)	0.00012	0.00013	0.00013
	(A0 * !A1 * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !A3 * !Y)	-0.00057	-0.00056	-0.00055
	(!A0 * !A1 * A3 * !Y)	0.00034	0.00034	0.00034
	(!A0 * !A1 * A3 * !Y)	0.00005	0.00006	0.00006
	(!A0 * !A1 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * A3 * !Y)	-0.00053	-0.00053	-0.00053

Passive power(pJ) for A3 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X3H7H	(A2 * !Y)	-0.00000	0.00000	0.00000
	(A2 * !Y)	-0.00008	-0.00008	-0.00008
	(A2 * !Y)	0.00001	0.00001	0.00001
	(A2 * !Y)	0.00075	0.00075	0.00076
	(A1 * !A2 * !Y)	-0.00000	0.00000	0.00000
	(A1 * !A2 * !Y)	-0.00008	-0.00008	-0.00008
	(A1 * !A2 * !Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * !Y)	0.00075	0.00075	0.00076
	(A0 * !A1 * !A2 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * !Y)	-0.00008	-0.00008	-0.00008
	(A0 * !A1 * !A2 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !A2 * !Y)	0.00075	0.00075	0.00075

Passive power(pJ) for A3 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X3H7H	(A2 * !Y)	0.00000	0.00000	0.00000
	(A2 * !Y)	0.00008	0.00009	0.00009
	(A2 * !Y)	-0.00001	-0.00001	-0.00001
	(A2 * !Y)	-0.00075	-0.00075	-0.00075
	(A1 * !A2 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !Y)	0.00008	0.00008	0.00008
	(A1 * !A2 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !Y)	-0.00075	-0.00075	-0.00075
	(A0 * !A1 * !A2 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * !Y)	0.00008	0.00008	0.00008
	(A0 * !A1 * !A2 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !A2 * !Y)	-0.00075	-0.00075	-0.00074

NOR4X4H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

NOR4, In: A, B, C, D, Out: Y

Truth Table

INPUT				OUTPUT
A0	A1	A2	A3	Y
0	0	0	0	1
0	0	x	1	0
0	x	1	x	0
x	1	x	x	0
1	x	x	x	0

Footprint

Cell Name	Area
NOR4X4H7H	5.88000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	A2	A3	Y
NOR4X4H7H	0.00268	0.00265	0.00269	0.00278	0.02689

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR4X4H7H	0.00000	0.03021	0.11660

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4X4H7H	A0->Y (FR)	0.10862	0.27368	0.71860
	A1->Y (FR)	0.10506	0.27062	0.72934
	A2->Y (FR)	0.09512	0.26163	0.73856
	A3->Y (FR)	0.07486	0.23447	0.69946

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4X4H7H	A0->Y (RF)	0.01965	0.09642	0.34199
	A1->Y (RF)	0.01986	0.09419	0.33808
	A2->Y (RF)	0.01940	0.09090	0.33364
	A3->Y (RF)	0.01738	0.08568	0.32788

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4X4H7H	A0	0.00512	0.00520	0.00529
	A0	-0.00056	-0.00056	-0.00055
	A0	0.00037	0.00038	0.00038
	A0	-0.00023	-0.00015	-0.00005
	A1	0.00448	0.00456	0.00465
	A1	-0.00042	-0.00041	-0.00038
	A1	0.00037	0.00038	0.00038
	A1	-0.00018	-0.00010	-0.00001
	A2	0.00377	0.00384	0.00394
	A2	-0.00026	-0.00025	-0.00022
	A2	0.00037	0.00038	0.00038
	A2	-0.00023	-0.00016	-0.00006
	A3	0.00297	0.00306	0.00320
	A3	-0.00009	-0.00008	-0.00007
	A3	0.00037	0.00037	0.00038
	A3	-0.00031	-0.00021	-0.00008

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4X4H7H	**A0**	-0.00039	-0.00031	-0.00025
	A0	0.00055	0.00056	0.00056
	A0	-0.00038	-0.00037	-0.00037
	A0	0.00438	0.00451	0.00460
	A1	-0.00044	-0.00035	-0.00028
	A1	0.00038	0.00041	0.00042
	A1	-0.00038	-0.00037	-0.00037
	A1	0.00385	0.00398	0.00406
	A2	-0.00041	-0.00030	-0.00023
	A2	0.00022	0.00025	0.00026
	A2	-0.00038	-0.00037	-0.00036
	A2	0.00343	0.00353	0.00361
	A3	-0.00041	-0.00029	-0.00020
	A3	0.00007	0.00008	0.00011
	A3	-0.00038	-0.00037	-0.00036
	A3	0.00287	0.00297	0.00305

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X4H7H	(A1 * A3 * !Y)	-0.00039	-0.00035	-0.00028
	(A1 * A3 * !Y)	-0.00009	-0.00009	-0.00008
	(A1 * A3 * !Y)	0.00001	0.00002	0.00002
	(A1 * A3 * !Y)	0.00089	0.00089	0.00090
	(A1 * A2 * !A3 * !Y)	-0.00039	-0.00035	-0.00028
	(A1 * A2 * !A3 * !Y)	-0.00009	-0.00008	-0.00008
	(A1 * A2 * !A3 * !Y)	0.00001	0.00002	0.00002
	(A1 * A2 * !A3 * !Y)	0.00089	0.00089	0.00090
	(A1 * !A2 * !A3 * !Y)	-0.00040	-0.00035	-0.00028
	(A1 * !A2 * !A3 * !Y)	-0.00008	-0.00008	-0.00008
	(A1 * !A2 * !A3 * !Y)	0.00001	0.00002	0.00002
	(A1 * !A2 * !A3 * !Y)	0.00089	0.00089	0.00089
	(!A1 * A2 * A3 * !Y)	-0.00037	-0.00032	-0.00025
	(!A1 * A2 * A3 * !Y)	-0.00009	-0.00009	-0.00007
	(!A1 * A2 * A3 * !Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * A3 * !Y)	0.00089	0.00089	0.00089
	(!A1 * A2 * !A3 * !Y)	-0.00037	-0.00032	-0.00025
	(!A1 * A2 * !A3 * !Y)	-0.00009	-0.00009	-0.00007
	(!A1 * A2 * !A3 * !Y)	0.00001	0.00001	0.00002
	(!A1 * A2 * !A3 * !Y)	0.00089	0.00089	0.00090
	(!A1 * !A2 * A3 * !Y)	-0.00036	-0.00031	-0.00025
	(!A1 * !A2 * A3 * !Y)	-0.00010	-0.00009	-0.00007
	(!A1 * !A2 * A3 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !A2 * A3 * !Y)	0.00089	0.00089	0.00090

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X4H7H	(A1 * A3 * !Y)	0.00039	0.00039	0.00039
	(A1 * A3 * !Y)	0.00008	0.00009	0.00009
	(A1 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * A3 * !Y)	-0.00089	-0.00089	-0.00088
	(A1 * A2 * !A3 * !Y)	0.00039	0.00039	0.00039
	(A1 * A2 * !A3 * !Y)	0.00008	0.00009	0.00009
	(A1 * A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * !A3 * !Y)	-0.00089	-0.00089	-0.00088
	(A1 * !A2 * !A3 * !Y)	0.00039	0.00040	0.00040
	(A1 * !A2 * !A3 * !Y)	0.00008	0.00008	0.00008
	(A1 * !A2 * !A3 * !Y)	-0.00002	-0.00001	-0.00001
	(A1 * !A2 * !A3 * !Y)	-0.00089	-0.00089	-0.00088
	(!A1 * A2 * A3 * !Y)	0.00037	0.00037	0.00037
	(!A1 * A2 * A3 * !Y)	0.00007	0.00009	0.00009
	(!A1 * A2 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * A3 * !Y)	-0.00089	-0.00089	-0.00088
	(!A1 * A2 * !A3 * !Y)	0.00037	0.00037	0.00038
	(!A1 * A2 * !A3 * !Y)	0.00007	0.00009	0.00009
	(!A1 * A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !A3 * !Y)	-0.00089	-0.00089	-0.00088
	(!A1 * !A2 * A3 * !Y)	0.00036	0.00036	0.00037
	(!A1 * !A2 * A3 * !Y)	0.00007	0.00009	0.00010
	(!A1 * !A2 * A3 * !Y)	-0.00002	-0.00001	-0.00001
	(!A1 * !A2 * A3 * !Y)	-0.00089	-0.00089	-0.00088

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X4H7H	(A0 * A2 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * A3 * !Y)	-0.00023	-0.00022	-0.00022
	(A0 * A2 * A3 * !Y)	0.00001	0.00002	0.00002
	(A0 * A2 * A3 * !Y)	0.00083	0.00083	0.00084
	(A0 * A2 * !A3 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A2 * !A3 * !Y)	-0.00022	-0.00022	-0.00022
	(A0 * A2 * !A3 * !Y)	0.00001	0.00002	0.00002
	(A0 * A2 * !A3 * !Y)	0.00083	0.00083	0.00084
	(A0 * !A2 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * A3 * !Y)	-0.00022	-0.00022	-0.00022
	(A0 * !A2 * A3 * !Y)	0.00001	0.00002	0.00002
	(A0 * !A2 * A3 * !Y)	0.00083	0.00083	0.00083
	(A0 * !A2 * !A3 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A2 * !A3 * !Y)	-0.00019	-0.00018	-0.00018
	(A0 * !A2 * !A3 * !Y)	0.00001	0.00001	0.00002
	(A0 * !A2 * !A3 * !Y)	0.00083	0.00084	0.00084
	(!A0 * A2 * A3 * !Y)	-0.00050	-0.00045	-0.00038
	(!A0 * A2 * A3 * !Y)	-0.00008	-0.00008	-0.00008
	(!A0 * A2 * A3 * !Y)	0.00001	0.00002	0.00002
	(!A0 * A2 * A3 * !Y)	0.00079	0.00080	0.00080
	(!A0 * A2 * !A3 * !Y)	-0.00050	-0.00045	-0.00038
	(!A0 * A2 * !A3 * !Y)	-0.00008	-0.00008	-0.00008
	(!A0 * A2 * !A3 * !Y)	0.00001	0.00002	0.00002
	(!A0 * A2 * !A3 * !Y)	0.00079	0.00080	0.00081
	(!A0 * !A2 * A3 * !Y)	-0.00048	-0.00041	-0.00034
	(!A0 * !A2 * A3 * !Y)	-0.00009	-0.00008	-0.00006
	(!A0 * !A2 * A3 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A2 * A3 * !Y)	0.00079	0.00080	0.00081

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X4H7H	(A0 * A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * A2 * A3 * !Y)	0.00022	0.00022	0.00023
	(A0 * A2 * A3 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * A2 * A3 * !Y)	-0.00084	-0.00083	-0.00083
	(A0 * A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * A2 * !A3 * !Y)	0.00022	0.00022	0.00022
	(A0 * A2 * !A3 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * A2 * !A3 * !Y)	-0.00084	-0.00083	-0.00083
	(A0 * !A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * A3 * !Y)	0.00022	0.00022	0.00022
	(A0 * !A2 * A3 * !Y)	-0.00002	-0.00001	-0.00001
	(A0 * !A2 * A3 * !Y)	-0.00083	-0.00083	-0.00083
	(A0 * !A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !A3 * !Y)	0.00019	0.00019	0.00019
	(A0 * !A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !A3 * !Y)	-0.00084	-0.00083	-0.00083
	(!A0 * A2 * A3 * !Y)	0.00049	0.00049	0.00050
	(!A0 * A2 * A3 * !Y)	0.00008	0.00008	0.00008
	(!A0 * A2 * A3 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * A2 * A3 * !Y)	-0.00080	-0.00079	-0.00079
	(!A0 * A2 * !A3 * !Y)	0.00050	0.00050	0.00050
	(!A0 * A2 * !A3 * !Y)	0.00008	0.00008	0.00008
	(!A0 * A2 * !A3 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A2 * !A3 * !Y)	-0.00080	-0.00079	-0.00079
	(!A0 * !A2 * A3 * !Y)	0.00047	0.00047	0.00048
	(!A0 * !A2 * A3 * !Y)	0.00006	0.00008	0.00009
	(!A0 * !A2 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * A3 * !Y)	-0.00080	-0.00079	-0.00079

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X4H7H	(A1 * A3 * !Y)	-0.00000	0.00000	0.00000
	(A1 * A3 * !Y)	-0.00022	-0.00022	-0.00022
	(A1 * A3 * !Y)	0.00001	0.00002	0.00002
	(A1 * A3 * !Y)	0.00084	0.00084	0.00084
	(A1 * !A3 * !Y)	-0.00000	0.00000	0.00000
	(A1 * !A3 * !Y)	-0.00018	-0.00018	-0.00018
	(A1 * !A3 * !Y)	0.00001	0.00001	0.00001
	(A1 * !A3 * !Y)	0.00083	0.00083	0.00084
	(A0 * !A1 * A3 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * A3 * !Y)	-0.00022	-0.00022	-0.00022
	(A0 * !A1 * A3 * !Y)	0.00001	0.00001	0.00002
	(A0 * !A1 * A3 * !Y)	0.00083	0.00083	0.00084
	(A0 * !A1 * !A3 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * !A3 * !Y)	-0.00018	-0.00018	-0.00017
	(A0 * !A1 * !A3 * !Y)	0.00001	0.00001	0.00002
	(A0 * !A1 * !A3 * !Y)	0.00083	0.00084	0.00084
	(!A0 * !A1 * A3 * !Y)	-0.00049	-0.00043	-0.00035
	(!A0 * !A1 * A3 * !Y)	-0.00009	-0.00008	-0.00008
	(!A0 * !A1 * A3 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * A3 * !Y)	0.00079	0.00081	0.00083

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X4H7H	(A1 * A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * A3 * !Y)	0.00022	0.00022	0.00022
	(A1 * A3 * !Y)	-0.00002	-0.00001	-0.00001
	(A1 * A3 * !Y)	-0.00084	-0.00083	-0.00083
	(A1 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A3 * !Y)	0.00019	0.00019	0.00019
	(A1 * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A3 * !Y)	-0.00084	-0.00083	-0.00083
	(A0 * !A1 * A3 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * A3 * !Y)	0.00022	0.00022	0.00022
	(A0 * !A1 * A3 * !Y)	-0.00002	-0.00001	-0.00001
	(A0 * !A1 * A3 * !Y)	-0.00083	-0.00083	-0.00082
	(A0 * !A1 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A3 * !Y)	0.00018	0.00018	0.00019
	(A0 * !A1 * !A3 * !Y)	-0.00002	-0.00001	-0.00001
	(A0 * !A1 * !A3 * !Y)	-0.00083	-0.00083	-0.00083
	(!A0 * !A1 * A3 * !Y)	0.00049	0.00049	0.00049
	(!A0 * !A1 * A3 * !Y)	0.00008	0.00008	0.00009
	(!A0 * !A1 * A3 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !A1 * A3 * !Y)	-0.00080	-0.00079	-0.00079

Passive power(pJ) for A3 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X4H7H	(A2 * !Y)	-0.00000	0.00000	0.00000
	(A2 * !Y)	-0.00012	-0.00012	-0.00012
	(A2 * !Y)	0.00001	0.00001	0.00002
	(A2 * !Y)	0.00104	0.00105	0.00106
	(A1 * !A2 * !Y)	-0.00000	0.00000	0.00000
	(A1 * !A2 * !Y)	-0.00012	-0.00012	-0.00012
	(A1 * !A2 * !Y)	0.00001	0.00001	0.00002
	(A1 * !A2 * !Y)	0.00104	0.00105	0.00106
	(A0 * !A1 * !A2 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * !Y)	-0.00012	-0.00012	-0.00012
	(A0 * !A1 * !A2 * !Y)	0.00001	0.00002	0.00002
	(A0 * !A1 * !A2 * !Y)	0.00105	0.00105	0.00106

Passive power(pJ) for A3 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X4H7H	(A2 * !Y)	-0.00000	0.00000	0.00000
	(A2 * !Y)	0.00013	0.00013	0.00013
	(A2 * !Y)	-0.00001	-0.00001	-0.00001
	(A2 * !Y)	-0.00106	-0.00105	-0.00104
	(A1 * !A2 * !Y)	-0.00000	0.00000	0.00000
	(A1 * !A2 * !Y)	0.00012	0.00013	0.00013
	(A1 * !A2 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !Y)	-0.00106	-0.00105	-0.00102
	(A0 * !A1 * !A2 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * !Y)	0.00012	0.00013	0.00013
	(A0 * !A1 * !A2 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !A2 * !Y)	-0.00106	-0.00105	-0.00104

NOR4X6H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

NOR4, In: A, B, C, D, Out: Y

Truth Table

INPUT				OUTPUT
A0	A1	A2	A3	Y
0	0	0	0	1
0	0	x	1	0
0	x	1	x	0
x	1	x	x	0
1	x	x	x	0

Footprint

Cell Name	Area
NOR4X6H7H	5.32000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	A2	A3	Y
NOR4X6H7H	0.00323	0.00325	0.00330	0.00341	0.03811

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR4X6H7H	0.00000	0.04992	0.29516

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4X6H7H	A0->Y (FR)	0.09504	0.26401	0.72127
	A1->Y (FR)	0.09157	0.26123	0.73318
	A2->Y (FR)	0.08184	0.25245	0.74351
	A3->Y (FR)	0.06302	0.22670	0.70506

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4X6H7H	A0->Y (RF)	0.01763	0.09534	0.34846
	A1->Y (RF)	0.01789	0.09303	0.34462
	A2->Y (RF)	0.01743	0.08958	0.34011
	A3->Y (RF)	0.01556	0.08439	0.33493

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4X6H7H	A0	0.00634	0.00644	0.00655
	A0	-0.00084	-0.00083	-0.00081
	A0	0.00054	0.00055	0.00055
	A0	-0.00043	-0.00033	-0.00021
	A1	0.00552	0.00561	0.00573
	A1	-0.00065	-0.00061	-0.00056
	A1	0.00054	0.00055	0.00055
	A1	-0.00036	-0.00026	-0.00014
	A2	0.00459	0.00468	0.00480
	A2	-0.00039	-0.00038	-0.00037
	A2	0.00054	0.00055	0.00055
	A2	-0.00041	-0.00032	-0.00020
	A3	0.00356	0.00367	0.00384
	A3	-0.00013	-0.00013	-0.00011
	A3	0.00054	0.00055	0.00055
	A3	-0.00051	-0.00039	-0.00023

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4X6H7H	A0	-0.00053	-0.00043	-0.00035
	A0	0.00081	0.00083	0.00084
	A0	-0.00055	-0.00055	-0.00054
	A0	0.00548	0.00566	0.00577
	A1	-0.00059	-0.00047	-0.00039
	A1	0.00056	0.00061	0.00065
	A1	-0.00055	-0.00055	-0.00054
	A1	0.00484	0.00497	0.00508
	A2	-0.00056	-0.00042	-0.00034
	A2	0.00037	0.00038	0.00039
	A2	-0.00055	-0.00055	-0.00054
	A2	0.00422	0.00435	0.00444
	A3	-0.00056	-0.00040	-0.00028
	A3	0.00011	0.00013	0.00014
	A3	-0.00055	-0.00054	-0.00052
	A3	0.00351	0.00364	0.00375

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X6H7H	(A1 * A3 * !Y)	-0.00053	-0.00048	-0.00040
	(A1 * A3 * !Y)	-0.00012	-0.00012	-0.00011
	(A1 * A3 * !Y)	0.00002	0.00002	0.00002
	(A1 * A3 * !Y)	0.00097	0.00097	0.00098
	(A1 * A2 * !A3 * !Y)	-0.00053	-0.00048	-0.00040
	(A1 * A2 * !A3 * !Y)	-0.00012	-0.00012	-0.00011
	(A1 * A2 * !A3 * !Y)	0.00002	0.00002	0.00002
	(A1 * A2 * !A3 * !Y)	0.00097	0.00097	0.00098
	(A1 * !A2 * !A3 * !Y)	-0.00054	-0.00048	-0.00039
	(A1 * !A2 * !A3 * !Y)	-0.00012	-0.00011	-0.00011
	(A1 * !A2 * !A3 * !Y)	0.00002	0.00002	0.00002
	(A1 * !A2 * !A3 * !Y)	0.00097	0.00097	0.00098
	(!A1 * A2 * A3 * !Y)	-0.00051	-0.00044	-0.00035
	(!A1 * A2 * A3 * !Y)	-0.00013	-0.00012	-0.00011
	(!A1 * A2 * A3 * !Y)	0.00002	0.00002	0.00002
	(!A1 * A2 * A3 * !Y)	0.00097	0.00097	0.00098
	(!A1 * A2 * !A3 * !Y)	-0.00051	-0.00044	-0.00035
	(!A1 * A2 * !A3 * !Y)	-0.00013	-0.00012	-0.00011
	(!A1 * A2 * !A3 * !Y)	0.00002	0.00002	0.00002
	(!A1 * A2 * !A3 * !Y)	0.00097	0.00098	0.00098
	(!A1 * !A2 * A3 * !Y)	-0.00050	-0.00043	-0.00035
	(!A1 * !A2 * A3 * !Y)	-0.00014	-0.00012	-0.00011
	(!A1 * !A2 * A3 * !Y)	0.00002	0.00002	0.00002
	(!A1 * !A2 * A3 * !Y)	0.00097	0.00098	0.00098

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X6H7H	(A1 * A3 * !Y)	0.00052	0.00053	0.00053
	(A1 * A3 * !Y)	0.00011	0.00012	0.00012
	(A1 * A3 * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * A3 * !Y)	-0.00097	-0.00097	-0.00096
	(A1 * A2 * !A3 * !Y)	0.00052	0.00053	0.00053
	(A1 * A2 * !A3 * !Y)	0.00011	0.00012	0.00012
	(A1 * A2 * !A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * A2 * !A3 * !Y)	-0.00097	-0.00097	-0.00096
	(A1 * !A2 * !A3 * !Y)	0.00053	0.00053	0.00054
	(A1 * !A2 * !A3 * !Y)	0.00011	0.00011	0.00012
	(A1 * !A2 * !A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * !A3 * !Y)	-0.00097	-0.00097	-0.00096
	(!A1 * A2 * A3 * !Y)	0.00050	0.00050	0.00051
	(!A1 * A2 * A3 * !Y)	0.00012	0.00012	0.00013
	(!A1 * A2 * A3 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * A3 * !Y)	-0.00098	-0.00097	-0.00096
	(!A1 * A2 * !A3 * !Y)	0.00050	0.00051	0.00051
	(!A1 * A2 * !A3 * !Y)	0.00012	0.00012	0.00013
	(!A1 * A2 * !A3 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * !A3 * !Y)	-0.00098	-0.00097	-0.00096
	(!A1 * !A2 * A3 * !Y)	0.00049	0.00050	0.00050
	(!A1 * !A2 * A3 * !Y)	0.00011	0.00012	0.00014
	(!A1 * !A2 * A3 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !A2 * A3 * !Y)	-0.00098	-0.00097	-0.00097

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X6H7H	(A0 * A2 * A3 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A2 * A3 * !Y)	-0.00033	-0.00032	-0.00032
	(A0 * A2 * A3 * !Y)	0.00002	0.00002	0.00002
	(A0 * A2 * A3 * !Y)	0.00091	0.00091	0.00092
	(A0 * A2 * !A3 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A2 * !A3 * !Y)	-0.00032	-0.00032	-0.00032
	(A0 * A2 * !A3 * !Y)	0.00001	0.00002	0.00002
	(A0 * A2 * !A3 * !Y)	0.00091	0.00091	0.00092
	(A0 * !A2 * A3 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A2 * A3 * !Y)	-0.00031	-0.00031	-0.00031
	(A0 * !A2 * A3 * !Y)	0.00002	0.00002	0.00002
	(A0 * !A2 * A3 * !Y)	0.00090	0.00091	0.00091
	(A0 * !A2 * !A3 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A2 * !A3 * !Y)	-0.00027	-0.00026	-0.00026
	(A0 * !A2 * !A3 * !Y)	0.00002	0.00002	0.00002
	(A0 * !A2 * !A3 * !Y)	0.00091	0.00091	0.00092
	(!A0 * A2 * A3 * !Y)	-0.00063	-0.00057	-0.00048
	(!A0 * A2 * A3 * !Y)	-0.00012	-0.00011	-0.00010
	(!A0 * A2 * A3 * !Y)	0.00002	0.00002	0.00003
	(!A0 * A2 * A3 * !Y)	0.00088	0.00089	0.00090
	(!A0 * A2 * !A3 * !Y)	-0.00063	-0.00057	-0.00048
	(!A0 * A2 * !A3 * !Y)	-0.00012	-0.00011	-0.00010
	(!A0 * A2 * !A3 * !Y)	0.00002	0.00002	0.00002
	(!A0 * A2 * !A3 * !Y)	0.00088	0.00089	0.00089
	(!A0 * !A2 * A3 * !Y)	-0.00060	-0.00052	-0.00043
	(!A0 * !A2 * A3 * !Y)	-0.00015	-0.00012	-0.00010
	(!A0 * !A2 * A3 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A2 * A3 * !Y)	0.00089	0.00089	0.00089

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X6H7H	(A0 * A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * A2 * A3 * !Y)	0.00032	0.00032	0.00033
	(A0 * A2 * A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A2 * A3 * !Y)	-0.00092	-0.00091	-0.00091
	(A0 * A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * A2 * !A3 * !Y)	0.00032	0.00032	0.00032
	(A0 * A2 * !A3 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * A2 * !A3 * !Y)	-0.00092	-0.00091	-0.00091
	(A0 * !A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * A3 * !Y)	0.00031	0.00031	0.00031
	(A0 * !A2 * A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A2 * A3 * !Y)	-0.00091	-0.00091	-0.00090
	(A0 * !A2 * !A3 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A2 * !A3 * !Y)	0.00027	0.00027	0.00027
	(A0 * !A2 * !A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A2 * !A3 * !Y)	-0.00091	-0.00091	-0.00090
	(!A0 * A2 * A3 * !Y)	0.00062	0.00063	0.00063
	(!A0 * A2 * A3 * !Y)	0.00011	0.00011	0.00012
	(!A0 * A2 * A3 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A2 * A3 * !Y)	-0.00089	-0.00089	-0.00088
	(!A0 * A2 * !A3 * !Y)	0.00063	0.00063	0.00063
	(!A0 * A2 * !A3 * !Y)	0.00011	0.00011	0.00012
	(!A0 * A2 * !A3 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A2 * !A3 * !Y)	-0.00089	-0.00088	-0.00088
	(!A0 * !A2 * A3 * !Y)	0.00060	0.00060	0.00060
	(!A0 * !A2 * A3 * !Y)	0.00010	0.00012	0.00015
	(!A0 * !A2 * A3 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A2 * A3 * !Y)	-0.00089	-0.00088	-0.00088

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X6H7H	(A1 * A3 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * A3 * !Y)	-0.00032	-0.00032	-0.00031
	(A1 * A3 * !Y)	0.00002	0.00002	0.00002
	(A1 * A3 * !Y)	0.00092	0.00092	0.00093
	(A1 * !A3 * !Y)	-0.00000	0.00000	0.00000
	(A1 * !A3 * !Y)	-0.00026	-0.00026	-0.00025
	(A1 * !A3 * !Y)	0.00002	0.00002	0.00002
	(A1 * !A3 * !Y)	0.00091	0.00092	0.00092
	(A0 * !A1 * A3 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * A3 * !Y)	-0.00031	-0.00031	-0.00031
	(A0 * !A1 * A3 * !Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * A3 * !Y)	0.00091	0.00091	0.00092
	(A0 * !A1 * !A3 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * !A3 * !Y)	-0.00026	-0.00025	-0.00025
	(A0 * !A1 * !A3 * !Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * !A3 * !Y)	0.00092	0.00092	0.00092
	(!A0 * !A1 * A3 * !Y)	-0.00062	-0.00055	-0.00044
	(!A0 * !A1 * A3 * !Y)	-0.00012	-0.00012	-0.00011
	(!A0 * !A1 * A3 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !A1 * A3 * !Y)	0.00088	0.00090	0.00093

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X6H7H	(A1 * A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * A3 * !Y)	0.00031	0.00032	0.00032
	(A1 * A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * A3 * !Y)	-0.00092	-0.00092	-0.00092
	(A1 * !A3 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * !A3 * !Y)	0.00026	0.00027	0.00027
	(A1 * !A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !A3 * !Y)	-0.00092	-0.00092	-0.00091
	(A0 * !A1 * A3 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * A3 * !Y)	0.00031	0.00031	0.00031
	(A0 * !A1 * A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * A3 * !Y)	-0.00091	-0.00091	-0.00090
	(A0 * !A1 * !A3 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * !A3 * !Y)	0.00026	0.00026	0.00026
	(A0 * !A1 * !A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * !A3 * !Y)	-0.00092	-0.00091	-0.00090
	(!A0 * !A1 * A3 * !Y)	0.00062	0.00062	0.00062
	(!A0 * !A1 * A3 * !Y)	0.00011	0.00012	0.00012
	(!A0 * !A1 * A3 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * A3 * !Y)	-0.00089	-0.00088	-0.00088

Passive power(pJ) for A3 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X6H7H	(A2 * !Y)	-0.00000	0.00000	0.00000
	(A2 * !Y)	-0.00017	-0.00017	-0.00017
	(A2 * !Y)	0.00002	0.00002	0.00002
	(A2 * !Y)	0.00121	0.00122	0.00122
	(A1 * !A2 * !Y)	-0.00000	0.00000	0.00000
	(A1 * !A2 * !Y)	-0.00017	-0.00017	-0.00016
	(A1 * !A2 * !Y)	0.00002	0.00002	0.00002
	(A1 * !A2 * !Y)	0.00121	0.00122	0.00122
	(A0 * !A1 * !A2 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * !Y)	-0.00017	-0.00017	-0.00017
	(A0 * !A1 * !A2 * !Y)	0.00002	0.00002	0.00003
	(A0 * !A1 * !A2 * !Y)	0.00122	0.00122	0.00122

Passive power(pJ) for A3 falling (conditional):

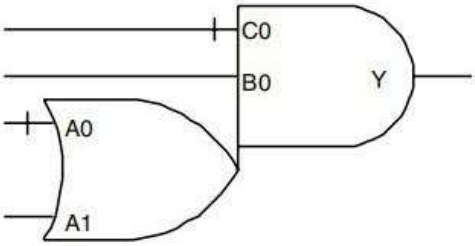
Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X6H7H	(A2 * !Y)	-0.00000	0.00000	0.00000
	(A2 * !Y)	0.00018	0.00018	0.00018
	(A2 * !Y)	-0.00002	-0.00002	-0.00002
	(A2 * !Y)	-0.00122	-0.00121	-0.00120
	(A1 * !A2 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !Y)	0.00017	0.00018	0.00018
	(A1 * !A2 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * !Y)	-0.00122	-0.00121	-0.00120
	(A0 * !A1 * !A2 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * !Y)	0.00017	0.00017	0.00018
	(A0 * !A1 * !A2 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * !A1 * !A2 * !Y)	-0.00122	-0.00121	-0.00119

OA211X0P5H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OA211 cell provides the logical AND of one OR group and two additional inputs. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	Y
0	0	x	x	0
x	1	0	x	0
x	1	1	0	0
x	1	1	1	1
1	x	0	x	0
1	x	1	0	0
1	x	1	1	1

Footprint

Cell Name	Area
OA211X0P5H7H	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	Y
OA211X0P5H7H	0.00084	0.00088	0.00082	0.00095	0.03032

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OA211X0P5H7H	0.00000	0.01581	0.02572

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA211X0P5H7H	A0->Y (RR)	0.11680	0.29283	0.72426
	A1->Y (RR)	0.11088	0.28492	0.71185
	B0->Y (RR)	0.10939	0.28554	0.71956
	C0->Y (RR)	0.10669	0.27938	0.70319

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA211X0P5H7H	A0->Y (FF)	0.12234	0.27014	0.62868
	A1->Y (FF)	0.11768	0.26283	0.61589
	B0->Y (FF)	0.06527	0.20611	0.54369
	C0->Y (FF)	0.06321	0.20170	0.53399

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA211X0P5H7H	A0	0.00042	0.00047	0.00052
	A0	0.00011	0.00011	0.00011
	A0	-0.00009	-0.00009	-0.00008
	A0	0.00186	0.00191	0.00196
	A1	0.00041	0.00048	0.00053
	A1	0.00006	0.00006	0.00007
	A1	-0.00009	-0.00009	-0.00008
	A1	0.00171	0.00177	0.00183
	B0	0.00043	0.00047	0.00053
	B0	0.00011	0.00011	0.00011
	B0	-0.00004	-0.00004	-0.00004
	B0	0.00153	0.00157	0.00163
	C0	0.00039	0.00045	0.00052
	C0	0.00010	0.00011	0.00011
	C0	-0.00000	0.00000	0.00000
	C0	0.00139	0.00145	0.00151

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA211X0P5H7H	A0	0.00185	0.00191	0.00197
	A0	-0.00011	-0.00011	-0.00011
	A0	0.00008	0.00009	0.00009
	A0	0.00048	0.00054	0.00060
	A1	0.00170	0.00176	0.00182
	A1	-0.00006	-0.00006	-0.00006
	A1	0.00008	0.00009	0.00009
	A1	0.00050	0.00055	0.00061
	B0	0.00156	0.00162	0.00166
	B0	-0.00006	-0.00006	-0.00006
	B0	0.00004	0.00004	0.00004
	B0	0.00046	0.00052	0.00057
	C0	0.00146	0.00153	0.00159
	C0	-0.00006	-0.00006	-0.00006
	C0	-0.00000	0.00000	0.00000
	C0	0.00045	0.00052	0.00057

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X0P5H7H	(A1 * B0 * C0 * Y)	-0.00009	-0.00008	-0.00007
	(A1 * B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * Y)	0.00031	0.00031	0.00032
	(A1 * B0 * !C0 * !Y)	-0.00011	-0.00011	-0.00010
	(A1 * B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !C0 * !Y)	0.00028	0.00028	0.00029
	(A1 * !B0 * !Y)	-0.00011	-0.00011	-0.00010
	(A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !Y)	0.00000	0.00000	0.00001
	(A1 * !B0 * !Y)	0.00028	0.00028	0.00029
	(!A1 * B0 * !C0 * !Y)	-0.00014	-0.00014	-0.00013
	(!A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !C0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * !C0 * !Y)	0.00023	0.00023	0.00023
	(!A1 * !B0 * C0 * !Y)	-0.00014	-0.00014	-0.00013
	(!A1 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * C0 * !Y)	0.00023	0.00024	0.00024
	(!A1 * !B0 * !C0 * !Y)	-0.00014	-0.00014	-0.00013
	(!A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !C0 * !Y)	0.00023	0.00023	0.00024

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X0P5H7H	(A1 * B0 * C0 * Y)	0.00009	0.00009	0.00009
	(A1 * B0 * C0 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * Y)	-0.00031	-0.00031	-0.00031
	(A1 * B0 * !C0 * !Y)	0.00011	0.00011	0.00012
	(A1 * B0 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !C0 * !Y)	-0.00001	-0.00000	0.00000
	(A1 * B0 * !C0 * !Y)	-0.00029	-0.00028	-0.00028
	(A1 * !B0 * !Y)	0.00011	0.00011	0.00011
	(A1 * !B0 * !Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * !Y)	-0.00029	-0.00028	-0.00028
	(!A1 * B0 * !C0 * !Y)	0.00013	0.00014	0.00014
	(!A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * !C0 * !Y)	-0.00023	-0.00021	-0.00018
	(!A1 * !B0 * C0 * !Y)	0.00013	0.00014	0.00014
	(!A1 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * C0 * !Y)	-0.00024	-0.00022	-0.00019
	(!A1 * !B0 * !C0 * !Y)	0.00013	0.00014	0.00014
	(!A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !C0 * !Y)	-0.00024	-0.00022	-0.00020

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X0P5H7H	(A0 * B0 * C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * Y)	0.00032	0.00032	0.00032
	(A0 * B0 * !C0 * !Y)	-0.00013	-0.00013	-0.00011
	(A0 * B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * !Y)	0.00024	0.00024	0.00024
	(A0 * !B0 * C0 * !Y)	-0.00013	-0.00013	-0.00011
	(A0 * !B0 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * C0 * !Y)	0.00024	0.00024	0.00024
	(A0 * !B0 * !C0 * !Y)	-0.00013	-0.00013	-0.00011
	(A0 * !B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !C0 * !Y)	0.00024	0.00024	0.00024
	(!A0 * B0 * !C0 * !Y)	-0.00016	-0.00015	-0.00015
	(!A0 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * B0 * !C0 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !B0 * C0 * !Y)	-0.00016	-0.00015	-0.00015
	(!A0 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !B0 * !C0 * !Y)	-0.00016	-0.00015	-0.00015
	(!A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !C0 * !Y)	0.00020	0.00020	0.00020

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X0P5H7H	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * Y)	0.00003	0.00003	0.00004
	(A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * Y)	-0.00032	-0.00032	-0.00032
	(A0 * B0 * !C0 * !Y)	0.00013	0.00013	0.00013
	(A0 * B0 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * !C0 * !Y)	-0.00024	-0.00024	-0.00024
	(A0 * !B0 * C0 * !Y)	0.00013	0.00013	0.00013
	(A0 * !B0 * C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !B0 * C0 * !Y)	-0.00024	-0.00024	-0.00024
	(A0 * !B0 * !C0 * !Y)	0.00013	0.00013	0.00013
	(A0 * !B0 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !B0 * !C0 * !Y)	-0.00024	-0.00024	-0.00024
	(!A0 * B0 * !C0 * !Y)	0.00015	0.00015	0.00016
	(!A0 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * B0 * !C0 * !Y)	-0.00020	-0.00019	-0.00017
	(!A0 * !B0 * C0 * !Y)	0.00015	0.00015	0.00016
	(!A0 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * !Y)	-0.00020	-0.00019	-0.00017
	(!A0 * !B0 * !C0 * !Y)	0.00015	0.00015	0.00016
	(!A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * !Y)	-0.00020	-0.00019	-0.00018

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X0P5H7H	(A1 * !C0 * !Y)	-0.00014	-0.00014	-0.00014
	(A1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !C0 * !Y)	0.00001	0.00001	0.00002
	(A1 * !C0 * !Y)	0.00021	0.00022	0.00022
	(A0 * !A1 * !C0 * !Y)	-0.00014	-0.00014	-0.00014
	(A0 * !A1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !C0 * !Y)	0.00001	0.00001	0.00002
	(A0 * !A1 * !C0 * !Y)	0.00021	0.00022	0.00022
	(!A0 * !A1 * C0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !A1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * C0 * !Y)	0.00003	0.00004	0.00004
	(!A0 * !A1 * C0 * !Y)	0.00007	0.00007	0.00008
	(!A0 * !A1 * !C0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !A1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !C0 * !Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !C0 * !Y)	0.00007	0.00007	0.00007

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X0P5H7H	(A1 * !C0 * !Y)	0.00014	0.00014	0.00015
	(A1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !C0 * !Y)	-0.00002	-0.00001	-0.00001
	(A1 * !C0 * !Y)	-0.00022	-0.00021	-0.00020
	(A0 * !A1 * !C0 * !Y)	0.00014	0.00014	0.00016
	(A0 * !A1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !C0 * !Y)	-0.00002	-0.00001	-0.00001
	(A0 * !A1 * !C0 * !Y)	-0.00022	-0.00021	-0.00019
	(!A0 * !A1 * C0 * !Y)	0.00014	0.00014	0.00014
	(!A0 * !A1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * C0 * !Y)	-0.00004	-0.00004	-0.00003
	(!A0 * !A1 * C0 * !Y)	-0.00007	-0.00007	-0.00006
	(!A0 * !A1 * !C0 * !Y)	0.00014	0.00015	0.00015
	(!A0 * !A1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !C0 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !C0 * !Y)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X0P5H7H	(A1 * !B0 * !Y)	-0.00026	-0.00026	-0.00026
	(A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !Y)	0.00003	0.00003	0.00003
	(A1 * !B0 * !Y)	0.00008	0.00008	0.00009
	(!A1 * !B0 * !Y)	-0.00026	-0.00026	-0.00026
	(!A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !Y)	0.00002	0.00003	0.00003
	(!A1 * !B0 * !Y)	0.00008	0.00009	0.00009
	(!A0 * !A1 * B0 * !Y)	-0.00026	-0.00026	-0.00026
	(!A0 * !A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * B0 * !Y)	0.00009	0.00009	0.00009

Passive power(pJ) for C0 falling (conditional):

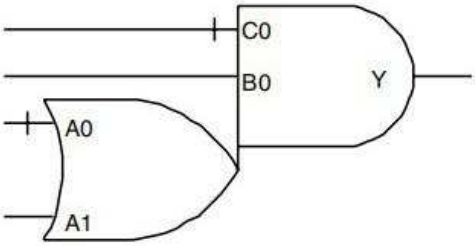
Cell Name	When	Power(pJ)		
		min	avg	max
OA211X0P5H7H	(A1 * !B0 * !Y)	0.00026	0.00026	0.00026
	(A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !Y)	-0.00002	-0.00003	-0.00002
	(A1 * !B0 * !Y)	-0.00009	-0.00008	-0.00008
	(!A1 * !B0 * !Y)	0.00026	0.00026	0.00026
	(!A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !Y)	-0.00003	-0.00002	-0.00002
	(!A1 * !B0 * !Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * B0 * !Y)	0.00026	0.00026	0.00026
	(!A0 * !A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B0 * !Y)	-0.00009	-0.00009	-0.00008

OA211X0P7H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OA211 cell provides the logical AND of one OR group and two additional inputs. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	Y
0	0	x	x	0
x	1	0	x	0
x	1	1	0	0
x	1	1	1	1
1	x	0	x	0
1	x	1	0	0
1	x	1	1	1

Footprint

Cell Name	Area
OA211X0P7H7H	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	Y
OA211X0P7H7H	0.00084	0.00087	0.00082	0.00095	0.03451

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OA211X0P7H7H	0.00000	0.01593	0.02778

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA211X0P7H7H	A0->Y (RR)	0.11575	0.29270	0.72544
	A1->Y (RR)	0.10954	0.28468	0.71327
	B0->Y (RR)	0.10816	0.28553	0.72142
	C0->Y (RR)	0.10540	0.27946	0.70560

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA211X0P7H7H	A0->Y (FF)	0.12209	0.27165	0.63344
	A1->Y (FF)	0.11732	0.26434	0.62098
	B0->Y (FF)	0.06452	0.20695	0.54803
	C0->Y (FF)	0.06248	0.20257	0.53838

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA211X0P7H7H	A0	0.00044	0.00049	0.00054
	A0	0.00010	0.00010	0.00010
	A0	-0.00009	-0.00008	-0.00008
	A0	0.00187	0.00193	0.00198
	A1	0.00043	0.00050	0.00056
	A1	0.00005	0.00006	0.00006
	A1	-0.00008	-0.00008	-0.00008
	A1	0.00172	0.00178	0.00184
	B0	0.00044	0.00049	0.00055
	B0	0.00010	0.00010	0.00011
	B0	-0.00003	-0.00003	-0.00003
	B0	0.00153	0.00159	0.00164
	C0	0.00041	0.00047	0.00054
	C0	0.00009	0.00010	0.00010
	C0	0.00000	0.00000	0.00002
	C0	0.00140	0.00146	0.00153

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA211X0P7H7H	A0	0.00187	0.00194	0.00200
	A0	-0.00010	-0.00010	-0.00008
	A0	0.00008	0.00008	0.00009
	A0	0.00051	0.00056	0.00062
	A1	0.00172	0.00178	0.00184
	A1	-0.00006	-0.00006	-0.00005
	A1	0.00008	0.00008	0.00008
	A1	0.00053	0.00058	0.00064
	B0	0.00158	0.00164	0.00169
	B0	-0.00006	-0.00006	-0.00005
	B0	0.00003	0.00003	0.00004
	B0	0.00049	0.00055	0.00060
	C0	0.00148	0.00155	0.00161
	C0	-0.00006	-0.00006	-0.00005
	C0	-0.00000	-0.00000	0.00000
	C0	0.00048	0.00055	0.00061

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X0P7H7H	(A1 * B0 * C0 * Y)	-0.00009	-0.00009	-0.00008
	(A1 * B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * Y)	0.00031	0.00032	0.00032
	(A1 * B0 * !C0 * !Y)	-0.00012	-0.00011	-0.00010
	(A1 * B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00001
	(A1 * B0 * !C0 * !Y)	0.00028	0.00029	0.00029
	(A1 * !B0 * !Y)	-0.00012	-0.00011	-0.00010
	(A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !Y)	0.00029	0.00029	0.00029
	(!A1 * B0 * !C0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !C0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * !C0 * !Y)	0.00023	0.00023	0.00024
	(!A1 * !B0 * C0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A1 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * C0 * !Y)	0.00023	0.00024	0.00024
	(!A1 * !B0 * !C0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !C0 * !Y)	0.00024	0.00024	0.00024

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X0P7H7H	(A1 * B0 * C0 * Y)	0.00009	0.00010	0.00010
	(A1 * B0 * C0 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * Y)	-0.00032	-0.00031	-0.00031
	(A1 * B0 * !C0 * !Y)	0.00012	0.00012	0.00012
	(A1 * B0 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !C0 * !Y)	-0.00001	-0.00000	0.00000
	(A1 * B0 * !C0 * !Y)	-0.00029	-0.00028	-0.00028
	(A1 * !B0 * !Y)	0.00012	0.00012	0.00012
	(A1 * !B0 * !Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * !Y)	-0.00029	-0.00029	-0.00028
	(!A1 * B0 * !C0 * !Y)	0.00014	0.00014	0.00014
	(!A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * !C0 * !Y)	-0.00023	-0.00022	-0.00020
	(!A1 * !B0 * C0 * !Y)	0.00014	0.00014	0.00014
	(!A1 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * C0 * !Y)	-0.00024	-0.00023	-0.00021
	(!A1 * !B0 * !C0 * !Y)	0.00014	0.00014	0.00014
	(!A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !C0 * !Y)	-0.00024	-0.00023	-0.00020

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X0P7H7H	(A0 * B0 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * C0 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * Y)	0.00032	0.00032	0.00033
	(A0 * B0 * !C0 * !Y)	-0.00013	-0.00012	-0.00011
	(A0 * B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * !Y)	0.00024	0.00024	0.00024
	(A0 * !B0 * C0 * !Y)	-0.00013	-0.00012	-0.00011
	(A0 * !B0 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * C0 * !Y)	0.00024	0.00024	0.00024
	(A0 * !B0 * !C0 * !Y)	-0.00013	-0.00012	-0.00011
	(A0 * !B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !C0 * !Y)	0.00024	0.00024	0.00024
	(!A0 * B0 * !C0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A0 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * B0 * !C0 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !B0 * C0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * !Y)	0.00020	0.00020	0.00021
	(!A0 * !B0 * !C0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !C0 * !Y)	0.00020	0.00020	0.00021

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X0P7H7H	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * Y)	0.00002	0.00003	0.00004
	(A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * Y)	-0.00033	-0.00032	-0.00032
	(A0 * B0 * !C0 * !Y)	0.00013	0.00013	0.00013
	(A0 * B0 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * !C0 * !Y)	-0.00024	-0.00024	-0.00024
	(A0 * !B0 * C0 * !Y)	0.00013	0.00013	0.00013
	(A0 * !B0 * C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !B0 * C0 * !Y)	-0.00024	-0.00024	-0.00024
	(A0 * !B0 * !C0 * !Y)	0.00013	0.00013	0.00013
	(A0 * !B0 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !B0 * !C0 * !Y)	-0.00024	-0.00024	-0.00024
	(!A0 * B0 * !C0 * !Y)	0.00015	0.00015	0.00015
	(!A0 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * B0 * !C0 * !Y)	-0.00020	-0.00019	-0.00017
	(!A0 * !B0 * C0 * !Y)	0.00015	0.00015	0.00015
	(!A0 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * !Y)	-0.00021	-0.00019	-0.00017
	(!A0 * !B0 * !C0 * !Y)	0.00015	0.00015	0.00015
	(!A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * !Y)	-0.00020	-0.00019	-0.00018

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X0P7H7H	(A1 * !C0 * !Y)	-0.00014	-0.00014	-0.00014
	(A1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !C0 * !Y)	0.00022	0.00022	0.00022
	(A0 * !A1 * !C0 * !Y)	-0.00014	-0.00014	-0.00014
	(A0 * !A1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !C0 * !Y)	0.00001	0.00001	0.00002
	(A0 * !A1 * !C0 * !Y)	0.00021	0.00021	0.00022
	(!A0 * !A1 * C0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !A1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * C0 * !Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * C0 * !Y)	0.00006	0.00007	0.00007
	(!A0 * !A1 * !C0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !A1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !C0 * !Y)	0.00004	0.00005	0.00005
	(!A0 * !A1 * !C0 * !Y)	0.00007	0.00007	0.00007

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X0P7H7H	(A1 * !C0 * !Y)	0.00014	0.00014	0.00015
	(A1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !C0 * !Y)	-0.00022	-0.00021	-0.00020
	(A0 * !A1 * !C0 * !Y)	0.00014	0.00014	0.00016
	(A0 * !A1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * !C0 * !Y)	-0.00002	-0.00001	-0.00001
	(A0 * !A1 * !C0 * !Y)	-0.00022	-0.00021	-0.00019
	(!A0 * !A1 * C0 * !Y)	0.00014	0.00014	0.00014
	(!A0 * !A1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * C0 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * C0 * !Y)	-0.00007	-0.00007	-0.00006
	(!A0 * !A1 * !C0 * !Y)	0.00014	0.00015	0.00015
	(!A0 * !A1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !C0 * !Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !A1 * !C0 * !Y)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X0P7H7H	(A1 * !B0 * !Y)	-0.00026	-0.00026	-0.00026
	(A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !Y)	0.00002	0.00002	0.00003
	(A1 * !B0 * !Y)	0.00008	0.00009	0.00009
	(!A1 * !B0 * !Y)	-0.00026	-0.00026	-0.00025
	(!A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * !Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * B0 * !Y)	-0.00026	-0.00026	-0.00026
	(!A0 * !A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * B0 * !Y)	0.00009	0.00009	0.00009

Passive power(pJ) for C0 falling (conditional):

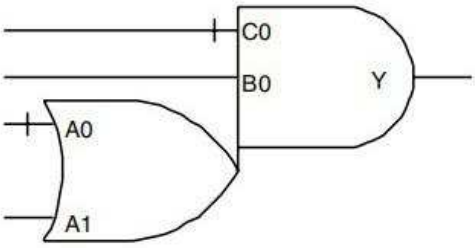
Cell Name	When	Power(pJ)		
		min	avg	max
OA211X0P7H7H	(A1 * !B0 * !Y)	0.00026	0.00026	0.00026
	(A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !Y)	-0.00003	-0.00002	-0.00002
	(A1 * !B0 * !Y)	-0.00008	-0.00008	-0.00008
	(!A1 * !B0 * !Y)	0.00026	0.00026	0.00026
	(!A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A1 * !B0 * !Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * B0 * !Y)	0.00026	0.00026	0.00026
	(!A0 * !A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B0 * !Y)	-0.00009	-0.00008	-0.00008

OA211X1H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OA211 cell provides the logical AND of one OR group and two additional inputs. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	Y
0	0	x	x	0
x	1	0	x	0
x	1	1	0	0
x	1	1	1	1
1	x	0	x	0
1	x	1	0	0
1	x	1	1	1

Footprint

Cell Name	Area
OA211X1H7H	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	Y
OA211X1H7H	0.00084	0.00087	0.00082	0.00095	0.04128

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OA211X1H7H	0.00000	0.01653	0.03217

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA211X1H7H	A0->Y (RR)	0.11535	0.29396	0.72910
	A1->Y (RR)	0.10910	0.28591	0.71724
	B0->Y (RR)	0.10766	0.28685	0.72569
	C0->Y (RR)	0.10492	0.28088	0.71059

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA211X1H7H	A0->Y (FF)	0.12333	0.27744	0.64924
	A1->Y (FF)	0.11842	0.27011	0.63749
	B0->Y (FF)	0.06451	0.21127	0.56276
	C0->Y (FF)	0.06249	0.20697	0.55328

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA211X1H7H	A0	0.00048	0.00054	0.00060
	A0	0.00010	0.00010	0.00010
	A0	-0.00008	-0.00008	-0.00008
	A0	0.00192	0.00198	0.00203
	A1	0.00048	0.00055	0.00061
	A1	0.00005	0.00005	0.00005
	A1	-0.00008	-0.00008	-0.00008
	A1	0.00176	0.00183	0.00189
	B0	0.00049	0.00055	0.00061
	B0	0.00010	0.00010	0.00010
	B0	-0.00003	-0.00003	-0.00002
	B0	0.00157	0.00163	0.00169
	C0	0.00046	0.00052	0.00060
	C0	0.00009	0.00010	0.00010
	C0	0.00000	0.00001	0.00002
	C0	0.00143	0.00150	0.00157

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA211X1H7H	A0	0.00191	0.00198	0.00204
	A0	-0.00010	-0.00010	-0.00009
	A0	0.00008	0.00008	0.00008
	A0	0.00055	0.00061	0.00068
	A1	0.00176	0.00182	0.00189
	A1	-0.00005	-0.00005	-0.00005
	A1	0.00008	0.00008	0.00008
	A1	0.00057	0.00063	0.00070
	B0	0.00161	0.00168	0.00173
	B0	-0.00005	-0.00005	-0.00005
	B0	0.00003	0.00003	0.00003
	B0	0.00053	0.00060	0.00065
	C0	0.00152	0.00159	0.00166
	C0	-0.00005	-0.00005	-0.00005
	C0	-0.00001	-0.00001	-0.00000
	C0	0.00052	0.00060	0.00066

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X1H7H	(A1 * B0 * C0 * Y)	-0.00009	-0.00009	-0.00008
	(A1 * B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * Y)	0.00032	0.00032	0.00032
	(A1 * B0 * !C0 * !Y)	-0.00012	-0.00011	-0.00010
	(A1 * B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00001
	(A1 * B0 * !C0 * !Y)	0.00028	0.00029	0.00029
	(A1 * !B0 * !Y)	-0.00012	-0.00011	-0.00010
	(A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !Y)	0.00029	0.00029	0.00029
	(!A1 * B0 * !C0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !C0 * !Y)	0.00001	0.00002	0.00002
	(!A1 * B0 * !C0 * !Y)	0.00023	0.00024	0.00024
	(!A1 * !B0 * C0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A1 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * C0 * !Y)	0.00024	0.00024	0.00024
	(!A1 * !B0 * !C0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * !C0 * !Y)	0.00024	0.00024	0.00024

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X1H7H	(A1 * B0 * C0 * Y)	0.00009	0.00010	0.00010
	(A1 * B0 * C0 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * Y)	-0.00032	-0.00032	-0.00032
	(A1 * B0 * !C0 * !Y)	0.00012	0.00012	0.00012
	(A1 * B0 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !C0 * !Y)	-0.00001	-0.00000	-0.00000
	(A1 * B0 * !C0 * !Y)	-0.00029	-0.00029	-0.00028
	(A1 * !B0 * !Y)	0.00012	0.00012	0.00012
	(A1 * !B0 * !Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !Y)	-0.00029	-0.00029	-0.00029
	(!A1 * B0 * !C0 * !Y)	0.00014	0.00014	0.00014
	(!A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * B0 * !C0 * !Y)	-0.00024	-0.00022	-0.00020
	(!A1 * !B0 * C0 * !Y)	0.00014	0.00014	0.00014
	(!A1 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * C0 * !Y)	-0.00024	-0.00023	-0.00021
	(!A1 * !B0 * !C0 * !Y)	0.00014	0.00014	0.00014
	(!A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * !Y)	-0.00024	-0.00023	-0.00020

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X1H7H	(A0 * B0 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * Y)	0.00032	0.00032	0.00033
	(A0 * B0 * !C0 * !Y)	-0.00013	-0.00012	-0.00011
	(A0 * B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * !Y)	0.00024	0.00024	0.00024
	(A0 * !B0 * C0 * !Y)	-0.00013	-0.00012	-0.00011
	(A0 * !B0 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * C0 * !Y)	0.00024	0.00024	0.00024
	(A0 * !B0 * !C0 * !Y)	-0.00013	-0.00012	-0.00011
	(A0 * !B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !C0 * !Y)	0.00024	0.00024	0.00025
	(!A0 * B0 * !C0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A0 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * B0 * !C0 * !Y)	0.00019	0.00020	0.00020
	(!A0 * !B0 * C0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * !Y)	0.00020	0.00020	0.00021
	(!A0 * !B0 * !C0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !C0 * !Y)	0.00020	0.00020	0.00021

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X1H7H	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * Y)	0.00003	0.00003	0.00004
	(A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * Y)	-0.00033	-0.00032	-0.00032
	(A0 * B0 * !C0 * !Y)	0.00013	0.00013	0.00013
	(A0 * B0 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * !C0 * !Y)	-0.00024	-0.00024	-0.00024
	(A0 * !B0 * C0 * !Y)	0.00013	0.00013	0.00013
	(A0 * !B0 * C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !B0 * C0 * !Y)	-0.00024	-0.00024	-0.00024
	(A0 * !B0 * !C0 * !Y)	0.00013	0.00013	0.00013
	(A0 * !B0 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !C0 * !Y)	-0.00025	-0.00024	-0.00024
	(!A0 * B0 * !C0 * !Y)	0.00015	0.00015	0.00015
	(!A0 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * B0 * !C0 * !Y)	-0.00020	-0.00019	-0.00016
	(!A0 * !B0 * C0 * !Y)	0.00015	0.00015	0.00015
	(!A0 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * !Y)	-0.00021	-0.00019	-0.00017
	(!A0 * !B0 * !C0 * !Y)	0.00015	0.00015	0.00015
	(!A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * !Y)	-0.00020	-0.00019	-0.00018

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X1H7H	(A1 * !C0 * !Y)	-0.00014	-0.00014	-0.00014
	(A1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !C0 * !Y)	0.00022	0.00022	0.00022
	(A0 * !A1 * !C0 * !Y)	-0.00014	-0.00014	-0.00014
	(A0 * !A1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !C0 * !Y)	0.00001	0.00001	0.00002
	(A0 * !A1 * !C0 * !Y)	0.00021	0.00021	0.00022
	(!A0 * !A1 * C0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !A1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * C0 * !Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * C0 * !Y)	0.00006	0.00007	0.00007
	(!A0 * !A1 * !C0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !A1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !C0 * !Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !C0 * !Y)	0.00007	0.00007	0.00007

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X1H7H	(A1 * !C0 * !Y)	0.00014	0.00014	0.00015
	(A1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !C0 * !Y)	-0.00022	-0.00021	-0.00020
	(A0 * !A1 * !C0 * !Y)	0.00014	0.00014	0.00016
	(A0 * !A1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * !C0 * !Y)	-0.00002	-0.00001	-0.00001
	(A0 * !A1 * !C0 * !Y)	-0.00022	-0.00021	-0.00019
	(!A0 * !A1 * C0 * !Y)	0.00014	0.00014	0.00014
	(!A0 * !A1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * C0 * !Y)	-0.00004	-0.00004	-0.00003
	(!A0 * !A1 * C0 * !Y)	-0.00007	-0.00007	-0.00006
	(!A0 * !A1 * !C0 * !Y)	0.00014	0.00015	0.00015
	(!A0 * !A1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !C0 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !C0 * !Y)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X1H7H	(A1 * !B0 * !Y)	-0.00026	-0.00026	-0.00026
	(A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !Y)	0.00002	0.00003	0.00003
	(A1 * !B0 * !Y)	0.00008	0.00009	0.00009
	(!A1 * !B0 * !Y)	-0.00026	-0.00026	-0.00025
	(!A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * !Y)	0.00007	0.00008	0.00008
	(!A0 * !A1 * B0 * !Y)	-0.00026	-0.00026	-0.00026
	(!A0 * !A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !Y)	0.00001	0.00002	0.00003
	(!A0 * !A1 * B0 * !Y)	0.00007	0.00009	0.00010

Passive power(pJ) for C0 falling (conditional):

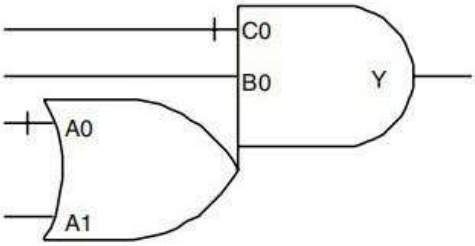
Cell Name	When	Power(pJ)		
		min	avg	max
OA211X1H7H	(A1 * !B0 * !Y)	0.00026	0.00026	0.00026
	(A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !Y)	-0.00003	-0.00002	-0.00002
	(A1 * !B0 * !Y)	-0.00008	-0.00008	-0.00008
	(!A1 * !B0 * !Y)	0.00026	0.00026	0.00026
	(!A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A1 * !B0 * !Y)	-0.00008	-0.00008	-0.00007
	(!A0 * !A1 * B0 * !Y)	0.00026	0.00026	0.00026
	(!A0 * !A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B0 * !Y)	-0.00009	-0.00008	-0.00007

OA211X1P4H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OA211 cell provides the logical AND of one OR group and two additional inputs. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	Y
0	0	x	x	0
x	1	0	x	0
x	1	1	0	0
x	1	1	1	1
1	x	0	x	0
1	x	1	0	0
1	x	1	1	1

Footprint

Cell Name	Area
OA211X1P4H7H	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	Y
OA211X1P4H7H	0.00085	0.00087	0.00082	0.00095	0.04705

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OA211X1P4H7H	0.00000	0.01767	0.03759

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA211X1P4H7H	A0->Y (RR)	0.11572	0.29554	0.73343
	A1->Y (RR)	0.10941	0.28740	0.72039
	B0->Y (RR)	0.10791	0.28845	0.72959
	C0->Y (RR)	0.10527	0.28263	0.71527

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA211X1P4H7H	A0->Y (FF)	0.12434	0.28059	0.65668
	A1->Y (FF)	0.11937	0.27325	0.64512
	B0->Y (FF)	0.06451	0.21328	0.56929
	C0->Y (FF)	0.06254	0.20904	0.56009

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA211X1P4H7H	A0	0.00053	0.00059	0.00065
	A0	0.00009	0.00009	0.00009
	A0	-0.00007	-0.00007	-0.00007
	A0	0.00196	0.00202	0.00208
	A1	0.00053	0.00060	0.00066
	A1	0.00004	0.00004	0.00005
	A1	-0.00007	-0.00007	-0.00007
	A1	0.00180	0.00187	0.00193
	B0	0.00054	0.00060	0.00066
	B0	0.00009	0.00009	0.00009
	B0	-0.00003	-0.00003	-0.00002
	B0	0.00161	0.00167	0.00173
	C0	0.00051	0.00057	0.00065
	C0	0.00009	0.00009	0.00009
	C0	0.00001	0.00001	0.00003
	C0	0.00147	0.00154	0.00162

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA211X1P4H7H	A0	0.00194	0.00201	0.00208
	A0	-0.00009	-0.00009	-0.00009
	A0	0.00007	0.00007	0.00007
	A0	0.00059	0.00065	0.00072
	A1	0.00179	0.00185	0.00192
	A1	-0.00004	-0.00004	-0.00004
	A1	0.00007	0.00007	0.00007
	A1	0.00061	0.00067	0.00074
	B0	0.00164	0.00171	0.00177
	B0	-0.00005	-0.00004	-0.00004
	B0	0.00003	0.00003	0.00003
	B0	0.00057	0.00064	0.00069
	C0	0.00155	0.00162	0.00169
	C0	-0.00005	-0.00004	-0.00004
	C0	-0.00001	-0.00001	0.00000
	C0	0.00056	0.00064	0.00071

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X1P4H7H	(A1 * B0 * C0 * Y)	-0.00009	-0.00009	-0.00008
	(A1 * B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * Y)	0.00032	0.00032	0.00033
	(A1 * B0 * !C0 * !Y)	-0.00012	-0.00011	-0.00010
	(A1 * B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00001
	(A1 * B0 * !C0 * !Y)	0.00028	0.00029	0.00029
	(A1 * !B0 * !Y)	-0.00012	-0.00012	-0.00010
	(A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !Y)	0.00029	0.00029	0.00029
	(!A1 * B0 * !C0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !C0 * !Y)	0.00001	0.00002	0.00002
	(!A1 * B0 * !C0 * !Y)	0.00023	0.00024	0.00024
	(!A1 * !B0 * C0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A1 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * C0 * !Y)	0.00024	0.00024	0.00024
	(!A1 * !B0 * !C0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !C0 * !Y)	0.00024	0.00024	0.00024

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X1P4H7H	(A1 * B0 * C0 * Y)	0.00009	0.00010	0.00010
	(A1 * B0 * C0 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * Y)	-0.00032	-0.00032	-0.00032
	(A1 * B0 * !C0 * !Y)	0.00012	0.00012	0.00012
	(A1 * B0 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !C0 * !Y)	-0.00001	-0.00000	-0.00000
	(A1 * B0 * !C0 * !Y)	-0.00029	-0.00029	-0.00028
	(A1 * !B0 * !Y)	0.00012	0.00012	0.00012
	(A1 * !B0 * !Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * !Y)	-0.00029	-0.00029	-0.00029
	(!A1 * B0 * !C0 * !Y)	0.00014	0.00014	0.00014
	(!A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * B0 * !C0 * !Y)	-0.00024	-0.00022	-0.00020
	(!A1 * !B0 * C0 * !Y)	0.00014	0.00014	0.00014
	(!A1 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A1 * !B0 * C0 * !Y)	-0.00024	-0.00023	-0.00021
	(!A1 * !B0 * !C0 * !Y)	0.00014	0.00014	0.00014
	(!A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !C0 * !Y)	-0.00024	-0.00023	-0.00020

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X1P4H7H	(A0 * B0 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * Y)	0.00032	0.00032	0.00033
	(A0 * B0 * !C0 * !Y)	-0.00013	-0.00013	-0.00011
	(A0 * B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * !Y)	0.00024	0.00024	0.00025
	(A0 * !B0 * C0 * !Y)	-0.00013	-0.00012	-0.00011
	(A0 * !B0 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * C0 * !Y)	0.00024	0.00024	0.00024
	(A0 * !B0 * !C0 * !Y)	-0.00013	-0.00013	-0.00011
	(A0 * !B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !C0 * !Y)	0.00024	0.00024	0.00024
	(!A0 * B0 * !C0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A0 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !C0 * !Y)	0.00000	0.00001	0.00002
	(!A0 * B0 * !C0 * !Y)	0.00020	0.00020	0.00021
	(!A0 * !B0 * C0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !B0 * C0 * !Y)	0.00020	0.00020	0.00021
	(!A0 * !B0 * !C0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !C0 * !Y)	0.00020	0.00020	0.00021

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X1P4H7H	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * Y)	0.00003	0.00003	0.00004
	(A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * Y)	-0.00033	-0.00032	-0.00032
	(A0 * B0 * !C0 * !Y)	0.00013	0.00013	0.00013
	(A0 * B0 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * !C0 * !Y)	-0.00024	-0.00024	-0.00024
	(A0 * !B0 * C0 * !Y)	0.00013	0.00013	0.00013
	(A0 * !B0 * C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !B0 * C0 * !Y)	-0.00024	-0.00024	-0.00024
	(A0 * !B0 * !C0 * !Y)	0.00013	0.00013	0.00013
	(A0 * !B0 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !B0 * !C0 * !Y)	-0.00024	-0.00024	-0.00024
	(!A0 * B0 * !C0 * !Y)	0.00015	0.00015	0.00015
	(!A0 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * !C0 * !Y)	-0.00002	-0.00001	-0.00000
	(!A0 * B0 * !C0 * !Y)	-0.00020	-0.00019	-0.00016
	(!A0 * !B0 * C0 * !Y)	0.00015	0.00015	0.00015
	(!A0 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !B0 * C0 * !Y)	-0.00021	-0.00019	-0.00017
	(!A0 * !B0 * !C0 * !Y)	0.00015	0.00015	0.00015
	(!A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * !Y)	-0.00020	-0.00019	-0.00018

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X1P4H7H	(A1 * !C0 * !Y)	-0.00014	-0.00014	-0.00014
	(A1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * !C0 * !Y)	0.00022	0.00022	0.00023
	(A0 * !A1 * !C0 * !Y)	-0.00014	-0.00014	-0.00014
	(A0 * !A1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !C0 * !Y)	0.00001	0.00001	0.00002
	(A0 * !A1 * !C0 * !Y)	0.00021	0.00021	0.00022
	(!A0 * !A1 * C0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !A1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * C0 * !Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * C0 * !Y)	0.00006	0.00007	0.00007
	(!A0 * !A1 * !C0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !A1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !C0 * !Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !C0 * !Y)	0.00007	0.00007	0.00007

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X1P4H7H	(A1 * !C0 * !Y)	0.00014	0.00014	0.00015
	(A1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !C0 * !Y)	-0.00022	-0.00021	-0.00020
	(A0 * !A1 * !C0 * !Y)	0.00014	0.00014	0.00015
	(A0 * !A1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !C0 * !Y)	-0.00022	-0.00020	-0.00019
	(!A0 * !A1 * C0 * !Y)	0.00014	0.00014	0.00014
	(!A0 * !A1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * C0 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * C0 * !Y)	-0.00007	-0.00007	-0.00006
	(!A0 * !A1 * !C0 * !Y)	0.00014	0.00015	0.00015
	(!A0 * !A1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !C0 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !C0 * !Y)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X1P4H7H	(A1 * !B0 * !Y)	-0.00026	-0.00026	-0.00026
	(A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !Y)	0.00002	0.00003	0.00003
	(A1 * !B0 * !Y)	0.00008	0.00009	0.00009
	(!A1 * !B0 * !Y)	-0.00026	-0.00026	-0.00026
	(!A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * !Y)	0.00007	0.00008	0.00008
	(!A0 * !A1 * B0 * !Y)	-0.00026	-0.00026	-0.00026
	(!A0 * !A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * B0 * !Y)	0.00009	0.00009	0.00009

Passive power(pJ) for C0 falling (conditional):

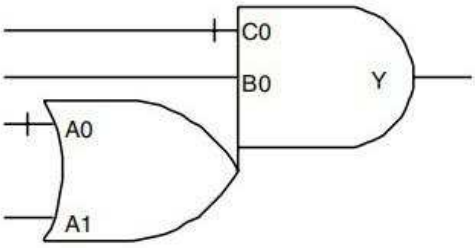
Cell Name	When	Power(pJ)		
		min	avg	max
OA211X1P4H7H	(A1 * !B0 * !Y)	0.00026	0.00026	0.00026
	(A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !Y)	-0.00008	-0.00008	-0.00008
	(!A1 * !B0 * !Y)	0.00026	0.00026	0.00026
	(!A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A1 * !B0 * !Y)	-0.00008	-0.00008	-0.00007
	(!A0 * !A1 * B0 * !Y)	0.00026	0.00026	0.00026
	(!A0 * !A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B0 * !Y)	-0.00009	-0.00008	-0.00008

OA211X2H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OA211 cell provides the logical AND of one OR group and two additional inputs. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	Y
0	0	x	x	0
x	1	0	x	0
x	1	1	0	0
x	1	1	1	1
1	x	0	x	0
1	x	1	0	0
1	x	1	1	1

Footprint

Cell Name	Area
OA211X2H7H	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	Y
OA211X2H7H	0.00076	0.00087	0.00084	0.00093	0.06056

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OA211X2H7H	0.00000	0.02331	0.02897

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA211X2H7H	A0->Y (RR)	0.12775	0.31188	0.75586
	A1->Y (RR)	0.12308	0.30589	0.74668
	B0->Y (RR)	0.12336	0.30911	0.76107
	C0->Y (RR)	0.12000	0.30329	0.74780

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA211X2H7H	A0->Y (FF)	0.13530	0.29245	0.66687
	A1->Y (FF)	0.13361	0.28835	0.65958
	B0->Y (FF)	0.07207	0.22152	0.57801
	C0->Y (FF)	0.06977	0.21719	0.56878

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA211X2H7H	A0	0.00086	0.00093	0.00102
	A0	0.00009	0.00009	0.00009
	A0	-0.00007	-0.00006	-0.00006
	A0	0.00218	0.00226	0.00234
	A1	0.00085	0.00094	0.00103
	A1	0.00004	0.00004	0.00004
	A1	-0.00006	-0.00006	-0.00003
	A1	0.00205	0.00214	0.00222
	B0	0.00085	0.00093	0.00102
	B0	0.00008	0.00009	0.00009
	B0	-0.00002	-0.00002	-0.00001
	B0	0.00186	0.00194	0.00203
	C0	0.00082	0.00091	0.00102
	C0	0.00008	0.00009	0.00009
	C0	0.00002	0.00002	0.00003
	C0	0.00172	0.00180	0.00191

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA211X2H7H	A0	0.00223	0.00230	0.00239
	A0	-0.00009	-0.00009	-0.00008
	A0	0.00006	0.00006	0.00007
	A0	0.00097	0.00105	0.00113
	A1	0.00211	0.00219	0.00228
	A1	-0.00004	-0.00004	-0.00004
	A1	0.00003	0.00006	0.00006
	A1	0.00100	0.00108	0.00117
	B0	0.00198	0.00207	0.00215
	B0	-0.00004	-0.00004	-0.00002
	B0	0.00001	0.00002	0.00002
	B0	0.00097	0.00106	0.00114
	C0	0.00187	0.00197	0.00206
	C0	-0.00004	-0.00004	-0.00004
	C0	-0.00002	-0.00002	-0.00001
	C0	0.00096	0.00106	0.00115

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X2H7H	(A1 * B0 * C0 * Y)	-0.00009	-0.00008	-0.00007
	(A1 * B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * C0 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * C0 * Y)	0.00029	0.00029	0.00029
	(A1 * B0 * !C0 * !Y)	-0.00009	-0.00008	-0.00007
	(A1 * B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * !Y)	0.00029	0.00029	0.00029
	(A1 * !B0 * !Y)	-0.00009	-0.00008	-0.00007
	(A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !Y)	0.00029	0.00029	0.00029
	(!A1 * B0 * !C0 * !Y)	-0.00011	-0.00011	-0.00011
	(!A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !C0 * !Y)	0.00001	0.00002	0.00002
	(!A1 * B0 * !C0 * !Y)	0.00024	0.00024	0.00025
	(!A1 * !B0 * C0 * !Y)	-0.00011	-0.00011	-0.00011
	(!A1 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * C0 * !Y)	0.00025	0.00025	0.00026
	(!A1 * !B0 * !C0 * !Y)	-0.00011	-0.00011	-0.00011
	(!A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * !C0 * !Y)	0.00024	0.00025	0.00026

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X2H7H	(A1 * B0 * C0 * Y)	0.00009	0.00009	0.00009
	(A1 * B0 * C0 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * C0 * Y)	-0.00000	-0.00000	0.00001
	(A1 * B0 * C0 * Y)	-0.00029	-0.00029	-0.00029
	(A1 * B0 * !C0 * !Y)	0.00009	0.00009	0.00009
	(A1 * B0 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * !Y)	-0.00029	-0.00029	-0.00029
	(A1 * !B0 * !Y)	0.00009	0.00009	0.00009
	(A1 * !B0 * !Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !Y)	-0.00029	-0.00029	-0.00029
	(!A1 * B0 * !C0 * !Y)	0.00011	0.00011	0.00011
	(!A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * B0 * !C0 * !Y)	-0.00024	-0.00023	-0.00021
	(!A1 * !B0 * C0 * !Y)	0.00011	0.00011	0.00011
	(!A1 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A1 * !B0 * C0 * !Y)	-0.00025	-0.00024	-0.00022
	(!A1 * !B0 * !C0 * !Y)	0.00011	0.00011	0.00011
	(!A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * !Y)	-0.00025	-0.00023	-0.00021

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X2H7H	(A0 * B0 * C0 * Y)	-0.00000	0.00000	0.00001
	(A0 * B0 * C0 * Y)	-0.00004	-0.00003	-0.00003
	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * Y)	0.00032	0.00032	0.00033
	(A0 * B0 * !C0 * !Y)	-0.00011	-0.00010	-0.00009
	(A0 * B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * !Y)	0.00026	0.00026	0.00027
	(A0 * !B0 * C0 * !Y)	-0.00011	-0.00010	-0.00009
	(A0 * !B0 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * C0 * !Y)	0.00026	0.00026	0.00026
	(A0 * !B0 * !C0 * !Y)	-0.00011	-0.00010	-0.00009
	(A0 * !B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !C0 * !Y)	0.00026	0.00026	0.00026
	(!A0 * B0 * !C0 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !C0 * !Y)	0.00002	0.00002	0.00003
	(!A0 * B0 * !C0 * !Y)	0.00020	0.00021	0.00021
	(!A0 * !B0 * C0 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !B0 * C0 * !Y)	0.00020	0.00021	0.00022
	(!A0 * !B0 * !C0 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * !C0 * !Y)	0.00021	0.00021	0.00022

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X2H7H	(A0 * B0 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * C0 * Y)	0.00003	0.00003	0.00004
	(A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * Y)	-0.00032	-0.00032	-0.00032
	(A0 * B0 * !C0 * !Y)	0.00011	0.00011	0.00011
	(A0 * B0 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !C0 * !Y)	-0.00026	-0.00026	-0.00025
	(A0 * !B0 * C0 * !Y)	0.00011	0.00011	0.00011
	(A0 * !B0 * C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * C0 * !Y)	-0.00026	-0.00026	-0.00026
	(A0 * !B0 * !C0 * !Y)	0.00011	0.00011	0.00011
	(A0 * !B0 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !B0 * !C0 * !Y)	-0.00026	-0.00026	-0.00026
	(!A0 * B0 * !C0 * !Y)	0.00013	0.00013	0.00013
	(!A0 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * !C0 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * B0 * !C0 * !Y)	-0.00021	-0.00019	-0.00016
	(!A0 * !B0 * C0 * !Y)	0.00013	0.00013	0.00013
	(!A0 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * !Y)	-0.00003	-0.00002	-0.00001
	(!A0 * !B0 * C0 * !Y)	-0.00022	-0.00020	-0.00017
	(!A0 * !B0 * !C0 * !Y)	0.00013	0.00013	0.00013
	(!A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B0 * !C0 * !Y)	-0.00022	-0.00020	-0.00018

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X2H7H	(A1 * !C0 * !Y)	-0.00015	-0.00015	-0.00015
	(A1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !C0 * !Y)	0.00020	0.00020	0.00021
	(A0 * !A1 * !C0 * !Y)	-0.00015	-0.00015	-0.00015
	(A0 * !A1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !C0 * !Y)	0.00001	0.00001	0.00002
	(A0 * !A1 * !C0 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !A1 * C0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !A1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * C0 * !Y)	0.00003	0.00003	0.00004
	(!A0 * !A1 * C0 * !Y)	0.00007	0.00007	0.00008
	(!A0 * !A1 * !C0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !A1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !C0 * !Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !C0 * !Y)	0.00007	0.00007	0.00008

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X2H7H	(A1 * !C0 * !Y)	0.00015	0.00015	0.00016
	(A1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !C0 * !Y)	-0.00020	-0.00020	-0.00019
	(A0 * !A1 * !C0 * !Y)	0.00015	0.00015	0.00016
	(A0 * !A1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !C0 * !Y)	-0.00020	-0.00019	-0.00018
	(!A0 * !A1 * C0 * !Y)	0.00015	0.00015	0.00015
	(!A0 * !A1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * C0 * !Y)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * C0 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * !C0 * !Y)	0.00015	0.00015	0.00015
	(!A0 * !A1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !C0 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !C0 * !Y)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X2H7H	(A1 * !B0 * !Y)	-0.00025	-0.00025	-0.00025
	(A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !Y)	0.00003	0.00003	0.00003
	(A1 * !B0 * !Y)	0.00007	0.00007	0.00008
	(!A1 * !B0 * !Y)	-0.00025	-0.00025	-0.00025
	(!A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !Y)	0.00003	0.00003	0.00004
	(!A1 * !B0 * !Y)	0.00007	0.00007	0.00008
	(!A0 * !A1 * B0 * !Y)	-0.00025	-0.00025	-0.00025
	(!A0 * !A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * B0 * !Y)	0.00008	0.00008	0.00009

Passive power(pJ) for C0 falling (conditional):

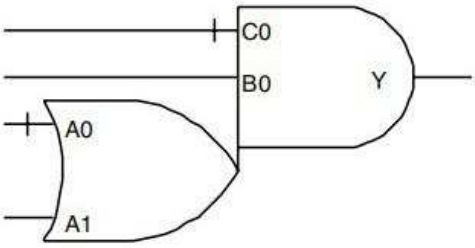
Cell Name	When	Power(pJ)		
		min	avg	max
OA211X2H7H	(A1 * !B0 * !Y)	0.00025	0.00025	0.00025
	(A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !Y)	-0.00003	-0.00003	-0.00002
	(A1 * !B0 * !Y)	-0.00008	-0.00007	-0.00007
	(!A1 * !B0 * !Y)	0.00025	0.00025	0.00025
	(!A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !Y)	-0.00004	-0.00003	-0.00002
	(!A1 * !B0 * !Y)	-0.00008	-0.00007	-0.00007
	(!A0 * !A1 * B0 * !Y)	0.00025	0.00025	0.00025
	(!A0 * !A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B0 * !Y)	-0.00008	-0.00007	-0.00007

OA211X3H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OA211 cell provides the logical AND of one OR group and two additional inputs. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	Y
0	0	x	x	0
x	1	0	x	0
x	1	1	0	0
x	1	1	1	1
1	x	0	x	0
1	x	1	0	0
1	x	1	1	1

Footprint

Cell Name	Area
OA211X3H7H	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	Y
OA211X3H7H	0.00087	0.00098	0.00095	0.00104	0.08626

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OA211X3H7H	0.00000	0.02868	0.04332

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA211X3H7H	A0->Y (RR)	0.11844	0.30455	0.75284
	A1->Y (RR)	0.11291	0.29736	0.74204
	B0->Y (RR)	0.11458	0.30186	0.75645
	C0->Y (RR)	0.11037	0.29352	0.73711

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA211X3H7H	A0->Y (FF)	0.11863	0.27832	0.65738
	A1->Y (FF)	0.11598	0.27301	0.64728
	B0->Y (FF)	0.06371	0.21540	0.57615
	C0->Y (FF)	0.06132	0.21112	0.56724

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA211X3H7H	A0	0.00104	0.00113	0.00123
	A0	0.00011	0.00011	0.00011
	A0	-0.00008	-0.00008	-0.00008
	A0	0.00262	0.00272	0.00282
	A1	0.00102	0.00113	0.00125
	A1	0.00005	0.00005	0.00005
	A1	-0.00008	-0.00008	-0.00008
	A1	0.00243	0.00254	0.00265
	B0	0.00102	0.00112	0.00124
	B0	0.00010	0.00011	0.00012
	B0	-0.00002	-0.00002	0.00001
	B0	0.00224	0.00234	0.00245
	C0	0.00100	0.00110	0.00123
	C0	0.00011	0.00011	0.00011
	C0	0.00003	0.00003	0.00005
	C0	0.00205	0.00215	0.00228

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA211X3H7H	A0	0.00264	0.00274	0.00284
	A0	-0.00011	-0.00011	-0.00010
	A0	0.00008	0.00008	0.00008
	A0	0.00114	0.00123	0.00134
	A1	0.00246	0.00256	0.00268
	A1	-0.00005	-0.00005	-0.00003
	A1	0.00008	0.00008	0.00008
	A1	0.00117	0.00127	0.00138
	B0	0.00236	0.00248	0.00258
	B0	-0.00005	-0.00005	-0.00005
	B0	0.00002	0.00002	0.00002
	B0	0.00115	0.00127	0.00136
	C0	0.00222	0.00235	0.00246
	C0	-0.00005	-0.00005	-0.00004
	C0	-0.00003	-0.00003	-0.00003
	C0	0.00114	0.00127	0.00138

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X3H7H	(A1 * B0 * C0 * Y)	-0.00012	-0.00011	-0.00010
	(A1 * B0 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * C0 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * C0 * Y)	0.00032	0.00032	0.00033
	(A1 * B0 * !C0 * !Y)	-0.00012	-0.00011	-0.00009
	(A1 * B0 * !C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !C0 * !Y)	0.00032	0.00032	0.00032
	(A1 * !B0 * !Y)	-0.00012	-0.00011	-0.00009
	(A1 * !B0 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * !Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * !Y)	0.00032	0.00032	0.00032
	(!A1 * B0 * !C0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !C0 * !Y)	0.00001	0.00002	0.00003
	(!A1 * B0 * !C0 * !Y)	0.00026	0.00027	0.00027
	(!A1 * !B0 * C0 * !Y)	-0.00015	-0.00015	-0.00014
	(!A1 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * !Y)	0.00001	0.00002	0.00003
	(!A1 * !B0 * C0 * !Y)	0.00026	0.00027	0.00028
	(!A1 * !B0 * !C0 * !Y)	-0.00015	-0.00015	-0.00014
	(!A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * !Y)	0.00002	0.00002	0.00003
	(!A1 * !B0 * !C0 * !Y)	0.00026	0.00027	0.00027

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X3H7H	(A1 * B0 * C0 * Y)	0.00012	0.00012	0.00012
	(A1 * B0 * C0 * Y)	0.00003	0.00003	0.00003
	(A1 * B0 * C0 * Y)	-0.00001	-0.00000	0.00000
	(A1 * B0 * C0 * Y)	-0.00032	-0.00032	-0.00032
	(A1 * B0 * !C0 * !Y)	0.00012	0.00012	0.00012
	(A1 * B0 * !C0 * !Y)	0.00003	0.00003	0.00003
	(A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !C0 * !Y)	-0.00032	-0.00032	-0.00032
	(A1 * !B0 * !Y)	0.00012	0.00012	0.00012
	(A1 * !B0 * !Y)	0.00003	0.00003	0.00003
	(A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * !Y)	-0.00032	-0.00032	-0.00032
	(!A1 * B0 * !C0 * !Y)	0.00015	0.00015	0.00015
	(!A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !C0 * !Y)	-0.00003	-0.00002	-0.00001
	(!A1 * B0 * !C0 * !Y)	-0.00027	-0.00025	-0.00022
	(!A1 * !B0 * C0 * !Y)	0.00015	0.00015	0.00015
	(!A1 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * !Y)	-0.00003	-0.00002	-0.00001
	(!A1 * !B0 * C0 * !Y)	-0.00027	-0.00026	-0.00024
	(!A1 * !B0 * !C0 * !Y)	0.00014	0.00015	0.00015
	(!A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !C0 * !Y)	-0.00027	-0.00026	-0.00024

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X3H7H	(A0 * B0 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * C0 * Y)	-0.00004	-0.00004	-0.00003
	(A0 * B0 * C0 * Y)	0.00000	0.00001	0.00001
	(A0 * B0 * C0 * Y)	0.00035	0.00036	0.00036
	(A0 * B0 * !C0 * !Y)	-0.00014	-0.00013	-0.00012
	(A0 * B0 * !C0 * !Y)	-0.00003	-0.00003	-0.00002
	(A0 * B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * B0 * !C0 * !Y)	0.00028	0.00028	0.00028
	(A0 * !B0 * C0 * !Y)	-0.00014	-0.00013	-0.00012
	(A0 * !B0 * C0 * !Y)	-0.00003	-0.00003	-0.00002
	(A0 * !B0 * C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * C0 * !Y)	0.00028	0.00028	0.00028
	(A0 * !B0 * !C0 * !Y)	-0.00015	-0.00014	-0.00012
	(A0 * !B0 * !C0 * !Y)	-0.00003	-0.00003	-0.00002
	(A0 * !B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * !C0 * !Y)	0.00028	0.00028	0.00028
	(!A0 * B0 * !C0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * B0 * !C0 * !Y)	0.00022	0.00022	0.00022
	(!A0 * !B0 * C0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * C0 * !Y)	0.00023	0.00023	0.00023
	(!A0 * !B0 * !C0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * !C0 * !Y)	0.00023	0.00023	0.00023

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X3H7H	(A0 * B0 * C0 * Y)	-0.00000	0.00000	0.00001
	(A0 * B0 * C0 * Y)	0.00003	0.00004	0.00004
	(A0 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * C0 * Y)	-0.00036	-0.00036	-0.00035
	(A0 * B0 * !C0 * !Y)	0.00014	0.00014	0.00014
	(A0 * B0 * !C0 * !Y)	0.00003	0.00003	0.00003
	(A0 * B0 * !C0 * !Y)	-0.00001	-0.00000	0.00000
	(A0 * B0 * !C0 * !Y)	-0.00028	-0.00028	-0.00028
	(A0 * !B0 * C0 * !Y)	0.00014	0.00014	0.00014
	(A0 * !B0 * C0 * !Y)	0.00003	0.00003	0.00003
	(A0 * !B0 * C0 * !Y)	-0.00001	-0.00000	0.00000
	(A0 * !B0 * C0 * !Y)	-0.00028	-0.00028	-0.00028
	(A0 * !B0 * !C0 * !Y)	0.00014	0.00014	0.00015
	(A0 * !B0 * !C0 * !Y)	0.00003	0.00003	0.00003
	(A0 * !B0 * !C0 * !Y)	-0.00001	-0.00000	-0.00000
	(A0 * !B0 * !C0 * !Y)	-0.00028	-0.00028	-0.00027
	(!A0 * B0 * !C0 * !Y)	0.00017	0.00017	0.00017
	(!A0 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * B0 * !C0 * !Y)	-0.00022	-0.00020	-0.00018
	(!A0 * !B0 * C0 * !Y)	0.00017	0.00017	0.00017
	(!A0 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * C0 * !Y)	-0.00023	-0.00021	-0.00019
	(!A0 * !B0 * !C0 * !Y)	0.00017	0.00017	0.00017
	(!A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * !C0 * !Y)	-0.00023	-0.00021	-0.00020

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X3H7H	(A1 * !C0 * !Y)	-0.00019	-0.00019	-0.00019
	(A1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !C0 * !Y)	0.00002	0.00002	0.00003
	(A1 * !C0 * !Y)	0.00021	0.00022	0.00022
	(A0 * !A1 * !C0 * !Y)	-0.00019	-0.00019	-0.00019
	(A0 * !A1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !C0 * !Y)	0.00001	0.00002	0.00002
	(A0 * !A1 * !C0 * !Y)	0.00022	0.00022	0.00023
	(!A0 * !A1 * C0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A0 * !A1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * C0 * !Y)	0.00005	0.00005	0.00006
	(!A0 * !A1 * C0 * !Y)	0.00006	0.00006	0.00007
	(!A0 * !A1 * !C0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A0 * !A1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !C0 * !Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !C0 * !Y)	0.00007	0.00007	0.00007

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X3H7H	(A1 * !C0 * !Y)	0.00019	0.00019	0.00020
	(A1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !C0 * !Y)	-0.00022	-0.00021	-0.00019
	(A0 * !A1 * !C0 * !Y)	0.00019	0.00019	0.00020
	(A0 * !A1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * !A1 * !C0 * !Y)	-0.00022	-0.00021	-0.00019
	(!A0 * !A1 * C0 * !Y)	0.00019	0.00019	0.00019
	(!A0 * !A1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * C0 * !Y)	-0.00006	-0.00005	-0.00005
	(!A0 * !A1 * C0 * !Y)	-0.00007	-0.00006	-0.00006
	(!A0 * !A1 * !C0 * !Y)	0.00019	0.00020	0.00020
	(!A0 * !A1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !C0 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !C0 * !Y)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X3H7H	(A1 * !B0 * !Y)	-0.00030	-0.00030	-0.00030
	(A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !Y)	0.00003	0.00004	0.00005
	(A1 * !B0 * !Y)	0.00006	0.00007	0.00007
	(!A1 * !B0 * !Y)	-0.00030	-0.00030	-0.00030
	(!A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !Y)	0.00002	0.00003	0.00004
	(!A1 * !B0 * !Y)	0.00007	0.00007	0.00008
	(!A0 * !A1 * B0 * !Y)	-0.00030	-0.00030	-0.00030
	(!A0 * !A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * B0 * !Y)	0.00007	0.00007	0.00008

Passive power(pJ) for C0 falling (conditional):

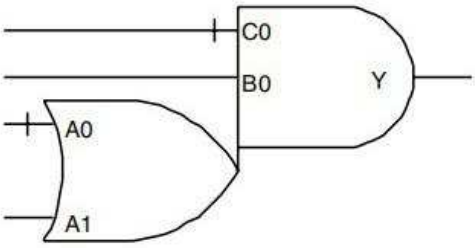
Cell Name	When	Power(pJ)		
		min	avg	max
OA211X3H7H	(A1 * !B0 * !Y)	0.00030	0.00030	0.00030
	(A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * !Y)	-0.00007	-0.00006	-0.00006
	(!A1 * !B0 * !Y)	0.00030	0.00030	0.00030
	(!A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A1 * !B0 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * B0 * !Y)	0.00030	0.00030	0.00030
	(!A0 * !A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * B0 * !Y)	-0.00007	-0.00007	-0.00007

OA211X4H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OA211 cell provides the logical AND of one OR group and two additional inputs. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	Y
0	0	x	x	0
x	1	0	x	0
x	1	1	0	0
x	1	1	1	1
1	x	0	x	0
1	x	1	0	0
1	x	1	1	1

Footprint

Cell Name	Area
OA211X4H7H	3.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	Y
OA211X4H7H	0.00094	0.00105	0.00102	0.00116	0.10878

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OA211X4H7H	0.00000	0.03836	0.06859

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA211X4H7H	A0->Y (RR)	0.11565	0.30315	0.75363
	A1->Y (RR)	0.11020	0.29586	0.74215
	B0->Y (RR)	0.11084	0.29936	0.75531
	C0->Y (RR)	0.10751	0.29153	0.73627

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA211X4H7H	A0->Y (FF)	0.11782	0.27971	0.66224
	A1->Y (FF)	0.11472	0.27405	0.65188
	B0->Y (FF)	0.06206	0.21569	0.58030
	C0->Y (FF)	0.06016	0.21190	0.57200

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA211X4H7H	A0	0.00119	0.00130	0.00141
	A0	0.00011	0.00012	0.00012
	A0	-0.00009	-0.00009	-0.00009
	A0	0.00291	0.00302	0.00314
	A1	0.00118	0.00131	0.00143
	A1	0.00004	0.00004	0.00005
	A1	-0.00009	-0.00009	-0.00009
	A1	0.00270	0.00283	0.00295
	B0	0.00118	0.00130	0.00143
	B0	0.00011	0.00012	0.00012
	B0	-0.00001	-0.00001	0.00000
	B0	0.00250	0.00261	0.00274
	C0	0.00115	0.00127	0.00142
	C0	0.00011	0.00011	0.00012
	C0	0.00003	0.00005	0.00005
	C0	0.00229	0.00241	0.00256

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA211X4H7H	A0	0.00297	0.00308	0.00320
	A0	-0.00012	-0.00012	-0.00011
	A0	0.00009	0.00009	0.00009
	A0	0.00134	0.00145	0.00157
	A1	0.00275	0.00287	0.00300
	A1	-0.00004	-0.00004	-0.00004
	A1	0.00009	0.00009	0.00009
	A1	0.00136	0.00147	0.00161
	B0	0.00263	0.00277	0.00288
	B0	-0.00004	-0.00004	-0.00002
	B0	0.00000	0.00001	0.00001
	B0	0.00132	0.00146	0.00157
	C0	0.00249	0.00265	0.00277
	C0	-0.00004	-0.00004	-0.00004
	C0	-0.00005	-0.00005	-0.00003
	C0	0.00131	0.00147	0.00159

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X4H7H	(A1 * B0 * C0 * Y)	-0.00013	-0.00012	-0.00010
	(A1 * B0 * C0 * Y)	-0.00003	-0.00003	-0.00002
	(A1 * B0 * C0 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * C0 * Y)	0.00033	0.00034	0.00034
	(A1 * B0 * !C0 * !Y)	-0.00013	-0.00012	-0.00011
	(A1 * B0 * !C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * !Y)	0.00033	0.00034	0.00034
	(A1 * !B0 * !Y)	-0.00013	-0.00012	-0.00010
	(A1 * !B0 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !Y)	0.00033	0.00033	0.00034
	(!A1 * B0 * !C0 * !Y)	-0.00017	-0.00016	-0.00016
	(!A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !C0 * !Y)	0.00002	0.00003	0.00003
	(!A1 * B0 * !C0 * !Y)	0.00027	0.00027	0.00028
	(!A1 * !B0 * C0 * !Y)	-0.00017	-0.00016	-0.00016
	(!A1 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * !Y)	0.00002	0.00002	0.00003
	(!A1 * !B0 * C0 * !Y)	0.00028	0.00028	0.00029
	(!A1 * !B0 * !C0 * !Y)	-0.00017	-0.00016	-0.00016
	(!A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * !Y)	0.00002	0.00002	0.00003
	(!A1 * !B0 * !C0 * !Y)	0.00027	0.00028	0.00028

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X4H7H	(A1 * B0 * C0 * Y)	0.00013	0.00014	0.00014
	(A1 * B0 * C0 * Y)	0.00002	0.00003	0.00003
	(A1 * B0 * C0 * Y)	-0.00001	-0.00001	0.00000
	(A1 * B0 * C0 * Y)	-0.00034	-0.00033	-0.00033
	(A1 * B0 * !C0 * !Y)	0.00013	0.00013	0.00013
	(A1 * B0 * !C0 * !Y)	0.00003	0.00003	0.00003
	(A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * !Y)	-0.00034	-0.00033	-0.00033
	(A1 * !B0 * !Y)	0.00013	0.00013	0.00013
	(A1 * !B0 * !Y)	0.00003	0.00003	0.00003
	(A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !Y)	-0.00034	-0.00033	-0.00033
	(!A1 * B0 * !C0 * !Y)	0.00016	0.00016	0.00017
	(!A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !C0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A1 * B0 * !C0 * !Y)	-0.00027	-0.00025	-0.00022
	(!A1 * !B0 * C0 * !Y)	0.00016	0.00016	0.00017
	(!A1 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * !Y)	-0.00003	-0.00002	-0.00002
	(!A1 * !B0 * C0 * !Y)	-0.00028	-0.00026	-0.00024
	(!A1 * !B0 * !C0 * !Y)	0.00016	0.00017	0.00017
	(!A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C0 * !Y)	-0.00003	-0.00002	-0.00002
	(!A1 * !B0 * !C0 * !Y)	-0.00028	-0.00026	-0.00024

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X4H7H	(A0 * B0 * C0 * Y)	-0.00000	0.00000	0.00001
	(A0 * B0 * C0 * Y)	-0.00004	-0.00004	-0.00004
	(A0 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * C0 * Y)	0.00037	0.00037	0.00037
	(A0 * B0 * !C0 * !Y)	-0.00017	-0.00016	-0.00014
	(A0 * B0 * !C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * !Y)	0.00027	0.00028	0.00028
	(A0 * !B0 * C0 * !Y)	-0.00017	-0.00016	-0.00014
	(A0 * !B0 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * C0 * !Y)	0.00027	0.00028	0.00028
	(A0 * !B0 * !C0 * !Y)	-0.00017	-0.00016	-0.00014
	(A0 * !B0 * !C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !C0 * !Y)	0.00027	0.00028	0.00028
	(!A0 * B0 * !C0 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !C0 * !Y)	0.00002	0.00003	0.00004
	(!A0 * B0 * !C0 * !Y)	0.00021	0.00022	0.00022
	(!A0 * !B0 * C0 * !Y)	-0.00021	-0.00020	-0.00020
	(!A0 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * C0 * !Y)	0.00023	0.00023	0.00023
	(!A0 * !B0 * !C0 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * !C0 * !Y)	0.00023	0.00023	0.00023

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X4H7H	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00001
	(A0 * B0 * C0 * Y)	0.00004	0.00005	0.00005
	(A0 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * C0 * Y)	-0.00037	-0.00037	-0.00037
	(A0 * B0 * !C0 * !Y)	0.00017	0.00017	0.00017
	(A0 * B0 * !C0 * !Y)	0.00003	0.00003	0.00003
	(A0 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * !C0 * !Y)	-0.00028	-0.00028	-0.00027
	(A0 * !B0 * C0 * !Y)	0.00017	0.00017	0.00017
	(A0 * !B0 * C0 * !Y)	0.00003	0.00003	0.00003
	(A0 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * C0 * !Y)	-0.00028	-0.00028	-0.00027
	(A0 * !B0 * !C0 * !Y)	0.00017	0.00017	0.00017
	(A0 * !B0 * !C0 * !Y)	0.00003	0.00003	0.00003
	(A0 * !B0 * !C0 * !Y)	-0.00001	-0.00000	0.00000
	(A0 * !B0 * !C0 * !Y)	-0.00028	-0.00028	-0.00027
	(!A0 * B0 * !C0 * !Y)	0.00020	0.00020	0.00020
	(!A0 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * !C0 * !Y)	-0.00004	-0.00003	-0.00002
	(!A0 * B0 * !C0 * !Y)	-0.00022	-0.00020	-0.00017
	(!A0 * !B0 * C0 * !Y)	0.00020	0.00020	0.00021
	(!A0 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * C0 * !Y)	-0.00023	-0.00021	-0.00018
	(!A0 * !B0 * !C0 * !Y)	0.00020	0.00020	0.00021
	(!A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * !C0 * !Y)	-0.00023	-0.00021	-0.00019

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X4H7H	(A1 * !C0 * !Y)	-0.00019	-0.00019	-0.00019
	(A1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A1 * !C0 * !Y)	0.00025	0.00025	0.00025
	(A0 * !A1 * !C0 * !Y)	-0.00020	-0.00019	-0.00019
	(A0 * !A1 * !C0 * !Y)	-0.00002	-0.00001	-0.00001
	(A0 * !A1 * !C0 * !Y)	0.00001	0.00002	0.00002
	(A0 * !A1 * !C0 * !Y)	0.00025	0.00025	0.00026
	(!A0 * !A1 * C0 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !A1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * C0 * !Y)	0.00005	0.00006	0.00006
	(!A0 * !A1 * C0 * !Y)	0.00007	0.00007	0.00008
	(!A0 * !A1 * !C0 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !A1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !C0 * !Y)	0.00006	0.00007	0.00007
	(!A0 * !A1 * !C0 * !Y)	0.00007	0.00007	0.00008

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X4H7H	(A1 * !C0 * !Y)	0.00020	0.00020	0.00021
	(A1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !C0 * !Y)	-0.00025	-0.00024	-0.00022
	(A0 * !A1 * !C0 * !Y)	0.00020	0.00020	0.00021
	(A0 * !A1 * !C0 * !Y)	0.00001	0.00001	0.00002
	(A0 * !A1 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * !A1 * !C0 * !Y)	-0.00025	-0.00024	-0.00022
	(!A0 * !A1 * C0 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !A1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * C0 * !Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !A1 * C0 * !Y)	-0.00007	-0.00007	-0.00006
	(!A0 * !A1 * !C0 * !Y)	0.00020	0.00020	0.00021
	(!A0 * !A1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !C0 * !Y)	-0.00007	-0.00007	-0.00006
	(!A0 * !A1 * !C0 * !Y)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X4H7H	(A1 * !B0 * !Y)	-0.00034	-0.00034	-0.00034
	(A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !Y)	0.00004	0.00004	0.00004
	(A1 * !B0 * !Y)	0.00006	0.00007	0.00007
	(!A1 * !B0 * !Y)	-0.00034	-0.00034	-0.00034
	(!A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !Y)	0.00003	0.00004	0.00004
	(!A1 * !B0 * !Y)	0.00007	0.00007	0.00008
	(!A0 * !A1 * B0 * !Y)	-0.00034	-0.00034	-0.00034
	(!A0 * !A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !Y)	0.00003	0.00003	0.00005
	(!A0 * !A1 * B0 * !Y)	0.00006	0.00007	0.00007

Passive power(pJ) for C0 falling (conditional):

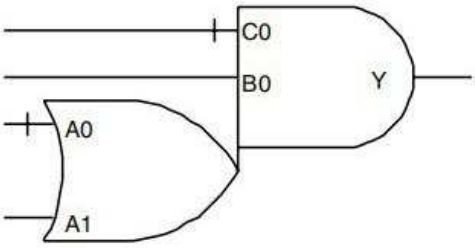
Cell Name	When	Power(pJ)		
		min	avg	max
OA211X4H7H	(A1 * !B0 * !Y)	0.00034	0.00034	0.00034
	(A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !Y)	-0.00004	-0.00004	-0.00004
	(A1 * !B0 * !Y)	-0.00007	-0.00007	-0.00006
	(!A1 * !B0 * !Y)	0.00034	0.00034	0.00034
	(!A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !Y)	-0.00004	-0.00003	-0.00003
	(!A1 * !B0 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * B0 * !Y)	0.00034	0.00034	0.00034
	(!A0 * !A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !Y)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * B0 * !Y)	-0.00007	-0.00007	-0.00006

OA211X6H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OA211 cell provides the logical AND of one OR group and two additional inputs. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	Y
0	0	x	x	0
x	1	0	x	0
x	1	1	0	0
x	1	1	1	1
1	x	0	x	0
1	x	1	0	0
1	x	1	1	1

Footprint

Cell Name	Area
OA211X6H7H	3.92000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	Y
OA211X6H7H	0.00115	0.00125	0.00118	0.00129	0.16101

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OA211X6H7H	0.00000	0.05510	0.09469

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA211X6H7H	A0->Y (RR)	0.13267	0.32411	0.78034
	A1->Y (RR)	0.12565	0.31569	0.76808
	B0->Y (RR)	0.12639	0.31969	0.78360
	C0->Y (RR)	0.12235	0.31145	0.76562

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA211X6H7H	A0->Y (FF)	0.13372	0.30107	0.69346
	A1->Y (FF)	0.12973	0.29489	0.68420
	B0->Y (FF)	0.06897	0.22788	0.60401
	C0->Y (FF)	0.06681	0.22410	0.59640

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA211X6H7H	A0	0.00186	0.00201	0.00220
	A0	0.00012	0.00012	0.00012
	A0	-0.00008	-0.00008	-0.00008
	A0	0.00389	0.00405	0.00423
	A1	0.00185	0.00203	0.00222
	A1	0.00001	0.00003	0.00003
	A1	-0.00008	-0.00008	-0.00008
	A1	0.00365	0.00383	0.00402
	B0	0.00185	0.00202	0.00221
	B0	0.00012	0.00012	0.00012
	B0	-0.00000	-0.00000	0.00000
	B0	0.00344	0.00359	0.00378
	C0	0.00182	0.00199	0.00220
	C0	0.00011	0.00012	0.00012
	C0	0.00006	0.00008	0.00010
	C0	0.00318	0.00334	0.00356

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA211X6H7H	A0	0.00402	0.00419	0.00437
	A0	-0.00012	-0.00012	-0.00012
	A0	0.00008	0.00008	0.00008
	A0	0.00209	0.00225	0.00243
	A1	0.00375	0.00391	0.00411
	A1	-0.00003	-0.00003	-0.00001
	A1	0.00008	0.00008	0.00008
	A1	0.00210	0.00225	0.00245
	B0	0.00362	0.00381	0.00397
	B0	-0.00003	-0.00003	0.00001
	B0	0.00000	0.00000	0.00001
	B0	0.00203	0.00223	0.00240
	C0	0.00344	0.00365	0.00383
	C0	-0.00003	-0.00003	-0.00001
	C0	-0.00008	-0.00008	-0.00006
	C0	0.00204	0.00225	0.00243

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X6H7H	(A1 * B0 * C0 * Y)	-0.00016	-0.00015	-0.00012
	(A1 * B0 * C0 * Y)	-0.00004	-0.00003	-0.00003
	(A1 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * C0 * Y)	0.00038	0.00038	0.00039
	(A1 * B0 * !C0 * !Y)	-0.00022	-0.00020	-0.00018
	(A1 * B0 * !C0 * !Y)	-0.00004	-0.00003	-0.00003
	(A1 * B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !C0 * !Y)	0.00032	0.00033	0.00034
	(A1 * !B0 * !Y)	-0.00022	-0.00020	-0.00018
	(A1 * !B0 * !Y)	-0.00004	-0.00003	-0.00003
	(A1 * !B0 * !Y)	0.00001	0.00001	0.00002
	(A1 * !B0 * !Y)	0.00032	0.00033	0.00033
	(!A1 * B0 * !C0 * !Y)	-0.00026	-0.00025	-0.00025
	(!A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !C0 * !Y)	0.00002	0.00003	0.00003
	(!A1 * B0 * !C0 * !Y)	0.00026	0.00026	0.00027
	(!A1 * !B0 * C0 * !Y)	-0.00026	-0.00025	-0.00025
	(!A1 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * !Y)	0.00001	0.00002	0.00003
	(!A1 * !B0 * C0 * !Y)	0.00027	0.00027	0.00028
	(!A1 * !B0 * !C0 * !Y)	-0.00026	-0.00026	-0.00025
	(!A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * !Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * !C0 * !Y)	0.00026	0.00027	0.00027

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X6H7H	(A1 * B0 * C0 * Y)	0.00016	0.00016	0.00017
	(A1 * B0 * C0 * Y)	0.00003	0.00003	0.00004
	(A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * C0 * Y)	-0.00038	-0.00038	-0.00038
	(A1 * B0 * !C0 * !Y)	0.00021	0.00022	0.00022
	(A1 * B0 * !C0 * !Y)	0.00003	0.00003	0.00004
	(A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	0.00000
	(A1 * B0 * !C0 * !Y)	-0.00033	-0.00032	-0.00032
	(A1 * !B0 * !Y)	0.00021	0.00022	0.00022
	(A1 * !B0 * !Y)	0.00003	0.00003	0.00004
	(A1 * !B0 * !Y)	-0.00002	-0.00001	-0.00001
	(A1 * !B0 * !Y)	-0.00033	-0.00032	-0.00032
	(!A1 * B0 * !C0 * !Y)	0.00025	0.00026	0.00026
	(!A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !C0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A1 * B0 * !C0 * !Y)	-0.00026	-0.00024	-0.00021
	(!A1 * !B0 * C0 * !Y)	0.00025	0.00026	0.00026
	(!A1 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * !Y)	-0.00003	-0.00002	-0.00001
	(!A1 * !B0 * C0 * !Y)	-0.00027	-0.00025	-0.00022
	(!A1 * !B0 * !C0 * !Y)	0.00025	0.00026	0.00026
	(!A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * !C0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A1 * !B0 * !C0 * !Y)	-0.00027	-0.00025	-0.00022

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X6H7H	(A0 * B0 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * C0 * Y)	-0.00005	-0.00005	-0.00004
	(A0 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * C0 * Y)	0.00043	0.00044	0.00044
	(A0 * B0 * !C0 * !Y)	-0.00023	-0.00021	-0.00019
	(A0 * B0 * !C0 * !Y)	-0.00004	-0.00003	-0.00003
	(A0 * B0 * !C0 * !Y)	0.00001	0.00001	0.00003
	(A0 * B0 * !C0 * !Y)	0.00028	0.00030	0.00030
	(A0 * !B0 * C0 * !Y)	-0.00023	-0.00021	-0.00019
	(A0 * !B0 * C0 * !Y)	-0.00004	-0.00003	-0.00003
	(A0 * !B0 * C0 * !Y)	0.00001	0.00001	0.00002
	(A0 * !B0 * C0 * !Y)	0.00029	0.00030	0.00030
	(A0 * !B0 * !C0 * !Y)	-0.00023	-0.00021	-0.00019
	(A0 * !B0 * !C0 * !Y)	-0.00004	-0.00003	-0.00003
	(A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !C0 * !Y)	0.00030	0.00030	0.00030
	(!A0 * B0 * !C0 * !Y)	-0.00027	-0.00027	-0.00026
	(!A0 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !C0 * !Y)	0.00003	0.00003	0.00005
	(!A0 * B0 * !C0 * !Y)	0.00022	0.00023	0.00024
	(!A0 * !B0 * C0 * !Y)	-0.00027	-0.00027	-0.00026
	(!A0 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * !Y)	0.00002	0.00003	0.00004
	(!A0 * !B0 * C0 * !Y)	0.00023	0.00024	0.00024
	(!A0 * !B0 * !C0 * !Y)	-0.00027	-0.00027	-0.00027
	(!A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !B0 * !C0 * !Y)	0.00024	0.00024	0.00024

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X6H7H	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * Y)	0.00005	0.00006	0.00007
	(A0 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * C0 * Y)	-0.00044	-0.00044	-0.00043
	(A0 * B0 * !C0 * !Y)	0.00023	0.00023	0.00023
	(A0 * B0 * !C0 * !Y)	0.00003	0.00004	0.00004
	(A0 * B0 * !C0 * !Y)	-0.00002	-0.00001	-0.00000
	(A0 * B0 * !C0 * !Y)	-0.00030	-0.00030	-0.00028
	(A0 * !B0 * C0 * !Y)	0.00023	0.00023	0.00023
	(A0 * !B0 * C0 * !Y)	0.00003	0.00003	0.00004
	(A0 * !B0 * C0 * !Y)	-0.00001	-0.00001	0.00000
	(A0 * !B0 * C0 * !Y)	-0.00030	-0.00030	-0.00029
	(A0 * !B0 * !C0 * !Y)	0.00023	0.00023	0.00023
	(A0 * !B0 * !C0 * !Y)	0.00003	0.00004	0.00004
	(A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * !C0 * !Y)	-0.00030	-0.00030	-0.00030
	(!A0 * B0 * !C0 * !Y)	0.00027	0.00027	0.00027
	(!A0 * B0 * !C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * B0 * !C0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * B0 * !C0 * !Y)	-0.00024	-0.00022	-0.00020
	(!A0 * !B0 * C0 * !Y)	0.00027	0.00027	0.00027
	(!A0 * !B0 * C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !B0 * C0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !B0 * C0 * !Y)	-0.00024	-0.00023	-0.00021
	(!A0 * !B0 * !C0 * !Y)	0.00027	0.00027	0.00027
	(!A0 * !B0 * !C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !B0 * !C0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !B0 * !C0 * !Y)	-0.00024	-0.00023	-0.00021

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X6H7H	(A1 * !C0 * !Y)	-0.00025	-0.00025	-0.00025
	(A1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !C0 * !Y)	0.00002	0.00002	0.00004
	(A1 * !C0 * !Y)	0.00025	0.00026	0.00027
	(A0 * !A1 * !C0 * !Y)	-0.00025	-0.00025	-0.00025
	(A0 * !A1 * !C0 * !Y)	-0.00002	-0.00001	-0.00001
	(A0 * !A1 * !C0 * !Y)	0.00001	0.00002	0.00002
	(A0 * !A1 * !C0 * !Y)	0.00026	0.00027	0.00027
	(!A0 * !A1 * C0 * !Y)	-0.00025	-0.00025	-0.00025
	(!A0 * !A1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * C0 * !Y)	0.00006	0.00007	0.00007
	(!A0 * !A1 * C0 * !Y)	0.00006	0.00007	0.00008
	(!A0 * !A1 * !C0 * !Y)	-0.00025	-0.00025	-0.00025
	(!A0 * !A1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !C0 * !Y)	0.00006	0.00008	0.00008
	(!A0 * !A1 * !C0 * !Y)	0.00007	0.00007	0.00009

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X6H7H	(A1 * !C0 * !Y)	0.00025	0.00025	0.00026
	(A1 * !C0 * !Y)	0.00001	0.00002	0.00002
	(A1 * !C0 * !Y)	-0.00003	-0.00002	-0.00002
	(A1 * !C0 * !Y)	-0.00026	-0.00025	-0.00023
	(A0 * !A1 * !C0 * !Y)	0.00025	0.00025	0.00026
	(A0 * !A1 * !C0 * !Y)	0.00001	0.00002	0.00002
	(A0 * !A1 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * !A1 * !C0 * !Y)	-0.00026	-0.00025	-0.00024
	(!A0 * !A1 * C0 * !Y)	0.00025	0.00025	0.00025
	(!A0 * !A1 * C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * C0 * !Y)	-0.00007	-0.00007	-0.00006
	(!A0 * !A1 * C0 * !Y)	-0.00007	-0.00007	-0.00006
	(!A0 * !A1 * !C0 * !Y)	0.00025	0.00026	0.00026
	(!A0 * !A1 * !C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * !C0 * !Y)	-0.00008	-0.00008	-0.00006
	(!A0 * !A1 * !C0 * !Y)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X6H7H	(A1 * !B0 * !Y)	-0.00040	-0.00040	-0.00039
	(A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !Y)	0.00003	0.00004	0.00004
	(A1 * !B0 * !Y)	0.00006	0.00006	0.00007
	(!A1 * !B0 * !Y)	-0.00040	-0.00040	-0.00039
	(!A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !Y)	0.00004	0.00005	0.00005
	(!A1 * !B0 * !Y)	0.00005	0.00006	0.00006
	(!A0 * !A1 * B0 * !Y)	-0.00040	-0.00040	-0.00039
	(!A0 * !A1 * B0 * !Y)	-0.00001	-0.00002	-0.00001
	(!A0 * !A1 * B0 * !Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * B0 * !Y)	0.00006	0.00006	0.00006

Passive power(pJ) for C0 falling (conditional):

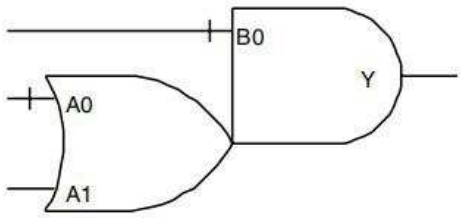
Cell Name	When	Power(pJ)		
		min	avg	max
OA211X6H7H	(A1 * !B0 * !Y)	0.00039	0.00040	0.00040
	(A1 * !B0 * !Y)	0.00001	0.00002	0.00001
	(A1 * !B0 * !Y)	-0.00004	-0.00004	-0.00003
	(A1 * !B0 * !Y)	-0.00006	-0.00006	-0.00006
	(!A1 * !B0 * !Y)	0.00039	0.00040	0.00040
	(!A1 * !B0 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !Y)	-0.00004	-0.00004	-0.00002
	(!A1 * !B0 * !Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !A1 * B0 * !Y)	0.00039	0.00040	0.00040
	(!A0 * !A1 * B0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * B0 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * B0 * !Y)	-0.00006	-0.00006	-0.00006

OA21X0P5H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OA21 cell provides the logical AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0	Y
0	0	x	0
x	1	0	0
x	1	1	1
1	x	0	0
1	x	1	1

Footprint

Cell Name	Area
OA21X0P5H7H	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	Y
OA21X0P5H7H	0.00077	0.00084	0.00094	0.03034

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OA21X0P5H7H	0.00000	0.01518	0.01844

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA21X0P5H7H	A0->Y (RR)	0.07904	0.25204	0.67636
	A1->Y (RR)	0.07619	0.24697	0.66544
	B0->Y (RR)	0.07578	0.24322	0.65153

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA21X0P5H7H	A0->Y (FF)	0.10385	0.24710	0.59369
	A1->Y (FF)	0.10164	0.24153	0.58030
	B0->Y (FF)	0.05880	0.19448	0.51930

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA21X0P5H7H	A0	0.00044	0.00049	0.00054
	A0	0.00008	0.00008	0.00008
	A0	-0.00005	-0.00005	-0.00005
	A0	0.00159	0.00164	0.00168
	A1	0.00042	0.00049	0.00054
	A1	0.00003	0.00003	0.00003
	A1	-0.00005	-0.00005	-0.00005
	A1	0.00141	0.00147	0.00152
	B0	0.00040	0.00046	0.00053
	B0	0.00007	0.00007	0.00008
	B0	-0.00000	0.00000	0.00001
	B0	0.00125	0.00132	0.00139

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA21X0P5H7H	A0	0.00153	0.00158	0.00164
	A0	-0.00008	-0.00008	-0.00008
	A0	0.00005	0.00005	0.00005
	A0	0.00042	0.00047	0.00052
	A1	0.00140	0.00146	0.00152
	A1	-0.00003	-0.00003	-0.00003
	A1	0.00005	0.00005	0.00005
	A1	0.00048	0.00053	0.00059
	B0	0.00132	0.00138	0.00144
	B0	-0.00003	-0.00003	-0.00003
	B0	-0.00000	0.00000	0.00000
	B0	0.00044	0.00051	0.00057

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X0P5H7H	(A1 * B0 * Y)	-0.00009	-0.00008	-0.00007
	(A1 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00031	0.00031	0.00032
	(A1 * !B0 * !Y)	-0.00009	-0.00008	-0.00007
	(A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !Y)	0.00031	0.00031	0.00031
	(!A1 * !B0 * !Y)	-0.00011	-0.00011	-0.00011
	(!A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !Y)	0.00026	0.00026	0.00027

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X0P5H7H	(A1 * B0 * Y)	0.00009	0.00009	0.00009
	(A1 * B0 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * Y)	-0.00031	-0.00031	-0.00031
	(A1 * !B0 * !Y)	0.00009	0.00009	0.00009
	(A1 * !B0 * !Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !Y)	-0.00031	-0.00031	-0.00031
	(!A1 * !B0 * !Y)	0.00011	0.00011	0.00011
	(!A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !Y)	-0.00027	-0.00025	-0.00023

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X0P5H7H	(A0 * B0 * Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * Y)	0.00030	0.00030	0.00031
	(A0 * !B0 * !Y)	-0.00013	-0.00012	-0.00011
	(A0 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !Y)	0.00023	0.00023	0.00023
	(!A0 * !B0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !Y)	0.00018	0.00018	0.00019

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X0P5H7H	(A0 * B0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * Y)	0.00003	0.00003	0.00004
	(A0 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * Y)	-0.00031	-0.00030	-0.00030
	(A0 * !B0 * !Y)	0.00012	0.00013	0.00013
	(A0 * !B0 * !Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !Y)	-0.00023	-0.00023	-0.00023
	(!A0 * !B0 * !Y)	0.00015	0.00015	0.00015
	(!A0 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !Y)	-0.00019	-0.00017	-0.00015

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X0P5H7H	(!A0 * !A1 * !Y)	-0.00027	-0.00027	-0.00026
	(!A0 * !A1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !A1 * !Y)	0.00005	0.00006	0.00006

Passive power(pJ) for B0 falling (conditional):

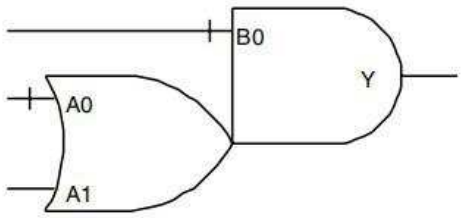
Cell Name	When	Power(pJ)		
		min	avg	max
OA21X0P5H7H	(!A0 * !A1 * !Y)	0.00027	0.00027	0.00027
	(!A0 * !A1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !Y)	-0.00006	-0.00006	-0.00005

OA21X0P7H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OA21 cell provides the logical AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0	Y
0	0	x	0
x	1	0	0
x	1	1	1
1	x	0	0
1	x	1	1

Footprint

Cell Name	Area
OA21X0P7H7H	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	Y
OA21X0P7H7H	0.00077	0.00084	0.00092	0.03447

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OA21X0P7H7H	0.00000	0.01575	0.02049

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA21X0P7H7H	A0->Y (RR)	0.07801	0.25161	0.67728
	A1->Y (RR)	0.07514	0.24657	0.66712
	B0->Y (RR)	0.07457	0.24284	0.65278

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA21X0P7H7H	A0->Y (FF)	0.10404	0.24887	0.59809
	A1->Y (FF)	0.10183	0.24335	0.58601
	B0->Y (FF)	0.05818	0.19535	0.52366

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA21X0P7H7H	A0	0.00046	0.00052	0.00056
	A0	0.00007	0.00007	0.00007
	A0	-0.00005	-0.00005	-0.00005
	A0	0.00160	0.00165	0.00169
	A1	0.00045	0.00051	0.00057
	A1	0.00002	0.00003	0.00003
	A1	-0.00005	-0.00005	-0.00005
	A1	0.00142	0.00148	0.00153
	B0	0.00042	0.00049	0.00056
	B0	0.00007	0.00007	0.00007
	B0	0.00000	0.00000	0.00001
	B0	0.00126	0.00132	0.00139

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA21X0P7H7H	A0	0.00155	0.00160	0.00166
	A0	-0.00007	-0.00007	-0.00007
	A0	0.00005	0.00005	0.00005
	A0	0.00045	0.00050	0.00056
	A1	0.00142	0.00148	0.00154
	A1	-0.00003	-0.00003	-0.00002
	A1	0.00005	0.00005	0.00005
	A1	0.00051	0.00056	0.00063
	B0	0.00134	0.00140	0.00146
	B0	-0.00003	-0.00003	-0.00002
	B0	-0.00000	-0.00000	0.00000
	B0	0.00048	0.00055	0.00061

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X0P7H7H	(A1 * B0 * Y)	-0.00009	-0.00008	-0.00007
	(A1 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00031	0.00031	0.00032
	(A1 * !B0 * !Y)	-0.00009	-0.00008	-0.00007
	(A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !Y)	0.00031	0.00031	0.00031
	(!A1 * !B0 * !Y)	-0.00011	-0.00011	-0.00011
	(!A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * !Y)	0.00026	0.00027	0.00027

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X0P7H7H	(A1 * B0 * Y)	0.00009	0.00009	0.00009
	(A1 * B0 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * Y)	-0.00031	-0.00031	-0.00031
	(A1 * !B0 * !Y)	0.00009	0.00009	0.00009
	(A1 * !B0 * !Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !Y)	-0.00031	-0.00031	-0.00031
	(!A1 * !B0 * !Y)	0.00011	0.00011	0.00012
	(!A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A1 * !B0 * !Y)	-0.00027	-0.00025	-0.00023

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X0P7H7H	(A0 * B0 * Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * Y)	0.00030	0.00030	0.00031
	(A0 * !B0 * !Y)	-0.00013	-0.00012	-0.00011
	(A0 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !Y)	0.00023	0.00023	0.00023
	(!A0 * !B0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !Y)	0.00018	0.00018	0.00019

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X0P7H7H	(A0 * B0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * Y)	0.00003	0.00003	0.00004
	(A0 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * Y)	-0.00030	-0.00030	-0.00030
	(A0 * !B0 * !Y)	0.00012	0.00013	0.00013
	(A0 * !B0 * !Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !Y)	-0.00023	-0.00023	-0.00023
	(!A0 * !B0 * !Y)	0.00015	0.00015	0.00015
	(!A0 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !Y)	-0.00019	-0.00017	-0.00015

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X0P7H7H	(!A0 * !A1 * !Y)	-0.00026	-0.00026	-0.00026
	(!A0 * !A1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * !Y)	0.00005	0.00006	0.00006

Passive power(pJ) for B0 falling (conditional):

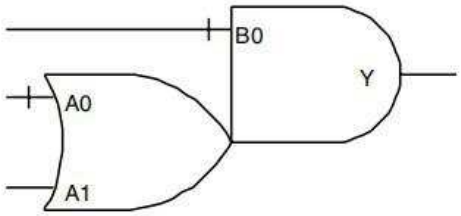
Cell Name	When	Power(pJ)		
		min	avg	max
OA21X0P7H7H	(!A0 * !A1 * !Y)	0.00026	0.00026	0.00026
	(!A0 * !A1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * !Y)	-0.00005	-0.00005	-0.00005

OA21X1H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OA21 cell provides the logical AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	**A1**	**B0**	**Y**
0	**0**	**x**	**0**
x	**1**	**0**	**0**
x	**1**	**1**	**1**
1	**x**	**0**	**0**
1	**x**	**1**	**1**

Footprint

Cell Name	Area
OA21X1H7H	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	Y
OA21X1H7H	0.00077	0.00084	0.00095	0.04126

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OA21X1H7H	0.00000	0.01723	0.02489

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA21X1H7H	A0->Y (RR)	0.07775	0.25304	0.68233
	A1->Y (RR)	0.07490	0.24805	0.67196
	B0->Y (RR)	0.07479	0.24505	0.66023

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA21X1H7H	A0->Y (FF)	0.10602	0.25576	0.61633
	A1->Y (FF)	0.10386	0.25039	0.60490
	B0->Y (FF)	0.05897	0.20094	0.54130

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA21X1H7H	A0	0.00051	0.00056	0.00061
	A0	0.00006	0.00007	0.00007
	A0	-0.00005	-0.00005	-0.00004
	A0	0.00164	0.00170	0.00175
	A1	0.00049	0.00056	0.00062
	A1	0.00002	0.00002	0.00002
	A1	-0.00005	-0.00005	-0.00004
	A1	0.00146	0.00153	0.00159
	B0	0.00047	0.00053	0.00061
	B0	0.00006	0.00006	0.00007
	B0	0.00000	0.00001	0.00002
	B0	0.00131	0.00138	0.00146

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA21X1H7H	A0	0.00160	0.00166	0.00172
	A0	-0.00007	-0.00007	-0.00006
	A0	0.00004	0.00005	0.00005
	A0	0.00050	0.00056	0.00061
	A1	0.00147	0.00153	0.00160
	A1	-0.00002	-0.00002	-0.00002
	A1	0.00004	0.00005	0.00005
	A1	0.00056	0.00062	0.00068
	B0	0.00139	0.00146	0.00153
	B0	-0.00002	-0.00002	-0.00002
	B0	-0.00001	-0.00001	-0.00000
	B0	0.00052	0.00060	0.00066

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X1H7H	(A1 * B0 * Y)	-0.00009	-0.00008	-0.00007
	(A1 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00031	0.00031	0.00032
	(A1 * !B0 * !Y)	-0.00009	-0.00008	-0.00007
	(A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !Y)	0.00031	0.00031	0.00031
	(!A1 * !B0 * !Y)	-0.00011	-0.00011	-0.00011
	(!A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !Y)	0.00027	0.00027	0.00027

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X1H7H	(A1 * B0 * Y)	0.00009	0.00009	0.00009
	(A1 * B0 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * Y)	-0.00000	-0.00000	0.00001
	(A1 * B0 * Y)	-0.00031	-0.00031	-0.00031
	(A1 * !B0 * !Y)	0.00009	0.00009	0.00009
	(A1 * !B0 * !Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !Y)	-0.00031	-0.00031	-0.00031
	(!A1 * !B0 * !Y)	0.00011	0.00011	0.00012
	(!A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !Y)	-0.00027	-0.00025	-0.00023

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X1H7H	(A0 * B0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * Y)	0.00030	0.00030	0.00031
	(A0 * !B0 * !Y)	-0.00013	-0.00012	-0.00011
	(A0 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !Y)	0.00022	0.00023	0.00023
	(!A0 * !B0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !B0 * !Y)	0.00018	0.00019	0.00019

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X1H7H	(A0 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * Y)	0.00003	0.00003	0.00004
	(A0 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * Y)	-0.00030	-0.00030	-0.00030
	(A0 * !B0 * !Y)	0.00012	0.00013	0.00013
	(A0 * !B0 * !Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !Y)	-0.00023	-0.00023	-0.00022
	(!A0 * !B0 * !Y)	0.00015	0.00015	0.00015
	(!A0 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !B0 * !Y)	-0.00019	-0.00017	-0.00015

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X1H7H	(!A0 * !A1 * !Y)	-0.00027	-0.00027	-0.00027
	(!A0 * !A1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !A1 * !Y)	0.00005	0.00005	0.00006

Passive power(pJ) for B0 falling (conditional):

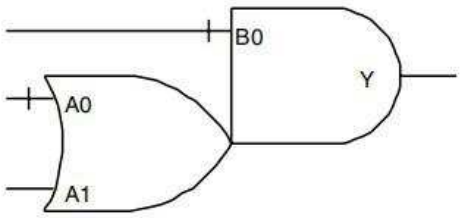
Cell Name	When	Power(pJ)		
		min	avg	max
OA21X1H7H	(!A0 * !A1 * !Y)	0.00027	0.00027	0.00028
	(!A0 * !A1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !Y)	-0.00006	-0.00005	-0.00005

OA21X1P4H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OA21 cell provides the logical AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0	Y
0	0	x	0
x	1	0	0
x	1	1	1
1	x	0	0
1	x	1	1

Footprint

Cell Name	Area
OA21X1P4H7H	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	Y
OA21X1P4H7H	0.00077	0.00085	0.00094	0.04699

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OA21X1P4H7H	0.00000	0.01936	0.03031

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA21X1P4H7H	A0->Y (RR)	0.07724	0.25385	0.68568
	A1->Y (RR)	0.07398	0.24834	0.67429
	B0->Y (RR)	0.07270	0.24389	0.66097

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA21X1P4H7H	A0->Y (FF)	0.10693	0.25869	0.62342
	A1->Y (FF)	0.10380	0.25259	0.61135
	B0->Y (FF)	0.05756	0.20109	0.54459

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA21X1P4H7H	A0	0.00053	0.00059	0.00064
	A0	0.00006	0.00006	0.00006
	A0	-0.00004	-0.00004	-0.00004
	A0	0.00163	0.00169	0.00174
	A1	0.00051	0.00059	0.00065
	A1	0.00001	0.00001	0.00001
	A1	-0.00004	-0.00004	-0.00004
	A1	0.00147	0.00154	0.00160
	B0	0.00049	0.00057	0.00064
	B0	0.00006	0.00006	0.00006
	B0	0.00000	0.00001	0.00003
	B0	0.00132	0.00139	0.00147

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA21X1P4H7H	A0	0.00163	0.00169	0.00176
	A0	-0.00006	-0.00006	-0.00005
	A0	0.00004	0.00004	0.00004
	A0	0.00056	0.00063	0.00069
	A1	0.00150	0.00156	0.00163
	A1	-0.00001	-0.00001	-0.00001
	A1	0.00004	0.00004	0.00004
	A1	0.00060	0.00067	0.00073
	B0	0.00139	0.00146	0.00153
	B0	-0.00001	-0.00001	-0.00001
	B0	-0.00001	-0.00001	0.00000
	B0	0.00053	0.00061	0.00068

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X1P4H7H	(A1 * B0 * Y)	-0.00009	-0.00008	-0.00007
	(A1 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00030	0.00030	0.00031
	(A1 * !B0 * !Y)	-0.00009	-0.00008	-0.00007
	(A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !Y)	0.00030	0.00030	0.00030
	(!A1 * !B0 * !Y)	-0.00011	-0.00011	-0.00011
	(!A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !Y)	0.00025	0.00026	0.00026

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X1P4H7H	(A1 * B0 * Y)	0.00008	0.00009	0.00009
	(A1 * B0 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * Y)	-0.00030	-0.00030	-0.00030
	(A1 * !B0 * !Y)	0.00009	0.00009	0.00009
	(A1 * !B0 * !Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !Y)	-0.00030	-0.00030	-0.00030
	(!A1 * !B0 * !Y)	0.00011	0.00011	0.00011
	(!A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !Y)	-0.00026	-0.00024	-0.00022

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X1P4H7H	(A0 * B0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * Y)	0.00031	0.00031	0.00031
	(A0 * !B0 * !Y)	-0.00013	-0.00012	-0.00011
	(A0 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !Y)	0.00023	0.00023	0.00024
	(!A0 * !B0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !Y)	0.00020	0.00020	0.00020

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X1P4H7H	(A0 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * Y)	0.00003	0.00003	0.00004
	(A0 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * Y)	-0.00031	-0.00031	-0.00030
	(A0 * !B0 * !Y)	0.00012	0.00013	0.00013
	(A0 * !B0 * !Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !Y)	-0.00024	-0.00023	-0.00023
	(!A0 * !B0 * !Y)	0.00015	0.00015	0.00015
	(!A0 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !Y)	-0.00020	-0.00018	-0.00016

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X1P4H7H	(!A0 * !A1 * !Y)	-0.00026	-0.00026	-0.00025
	(!A0 * !A1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !A1 * !Y)	0.00008	0.00008	0.00008

Passive power(pJ) for B0 falling (conditional):

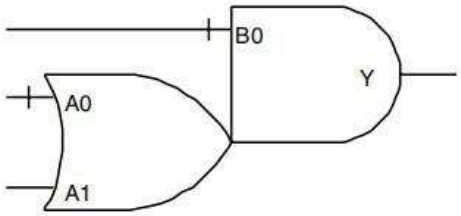
Cell Name	When	Power(pJ)		
		min	avg	max
OA21X1P4H7H	(!A0 * !A1 * !Y)	0.00026	0.00026	0.00026
	(!A0 * !A1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !Y)	-0.00008	-0.00008	-0.00008

OA21X2H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OA21 cell provides the logical AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	**A1**	**B0**	**Y**
0	**0**	**x**	**0**
x	**1**	**0**	**0**
x	**1**	**1**	**1**
1	**x**	**0**	**0**
1	**x**	**1**	**1**

Footprint

Cell Name	Area
OA21X2H7H	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	Y
OA21X2H7H	0.00078	0.00085	0.00094	0.06057

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OA21X2H7H	0.00000	0.02168	0.02168

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA21X2H7H	A0->Y (RR)	0.08717	0.26794	0.70911
	A1->Y (RR)	0.08390	0.26295	0.69962
	B0->Y (RR)	0.08399	0.26106	0.69031

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA21X2H7H	A0->Y (FF)	0.11996	0.27309	0.63745
	A1->Y (FF)	0.11741	0.26795	0.62870
	B0->Y (FF)	0.06527	0.21040	0.55628

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA21X2H7H	A0	0.00082	0.00090	0.00097
	A0	0.00006	0.00006	0.00006
	A0	-0.00003	-0.00003	-0.00003
	A0	0.00190	0.00198	0.00205
	A1	0.00081	0.00090	0.00098
	A1	0.00001	0.00001	0.00001
	A1	-0.00003	-0.00003	-0.00003
	A1	0.00172	0.00181	0.00189
	B0	0.00078	0.00087	0.00098
	B0	0.00005	0.00006	0.00006
	B0	0.00002	0.00002	0.00002
	B0	0.00158	0.00167	0.00177

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA21X2H7H	A0	0.00193	0.00201	0.00209
	A0	-0.00006	-0.00006	-0.00006
	A0	0.00003	0.00003	0.00003
	A0	0.00088	0.00096	0.00104
	A1	0.00180	0.00188	0.00197
	A1	-0.00001	-0.00001	-0.00001
	A1	0.00003	0.00003	0.00003
	A1	0.00094	0.00102	0.00111
	B0	0.00172	0.00182	0.00190
	B0	-0.00001	-0.00001	-0.00001
	B0	-0.00002	-0.00002	-0.00001
	B0	0.00090	0.00100	0.00108

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X2H7H	(A1 * B0 * Y)	-0.00009	-0.00008	-0.00007
	(A1 * B0 * Y)	-0.00002	-0.00002	-0.00001
	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00031	0.00031	0.00032
	(A1 * !B0 * !Y)	-0.00009	-0.00008	-0.00007
	(A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !Y)	0.00031	0.00031	0.00031
	(!A1 * !B0 * !Y)	-0.00011	-0.00011	-0.00011
	(!A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !Y)	0.00027	0.00027	0.00027

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X2H7H	(A1 * B0 * Y)	0.00009	0.00009	0.00009
	(A1 * B0 * Y)	0.00001	0.00002	0.00002
	(A1 * B0 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * Y)	-0.00031	-0.00031	-0.00031
	(A1 * !B0 * !Y)	0.00009	0.00009	0.00009
	(A1 * !B0 * !Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !Y)	-0.00031	-0.00031	-0.00031
	(!A1 * !B0 * !Y)	0.00011	0.00011	0.00011
	(!A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !Y)	-0.00027	-0.00026	-0.00023

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X2H7H	(A0 * B0 * Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * Y)	0.00030	0.00030	0.00030
	(A0 * !B0 * !Y)	-0.00011	-0.00011	-0.00009
	(A0 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !Y)	0.00023	0.00024	0.00024
	(!A0 * !B0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !B0 * !Y)	0.00020	0.00020	0.00020

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X2H7H	(A0 * B0 * Y)	0.00000	0.00000	0.00001
	(A0 * B0 * Y)	0.00003	0.00003	0.00003
	(A0 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * Y)	-0.00030	-0.00030	-0.00030
	(A0 * !B0 * !Y)	0.00011	0.00011	0.00011
	(A0 * !B0 * !Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !B0 * !Y)	-0.00024	-0.00024	-0.00023
	(!A0 * !B0 * !Y)	0.00014	0.00014	0.00014
	(!A0 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !B0 * !Y)	-0.00020	-0.00018	-0.00015

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X2H7H	(!A0 * !A1 * !Y)	-0.00026	-0.00026	-0.00025
	(!A0 * !A1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !Y)	0.00002	0.00003	0.00004
	(!A0 * !A1 * !Y)	0.00006	0.00007	0.00007

Passive power(pJ) for B0 falling (conditional):

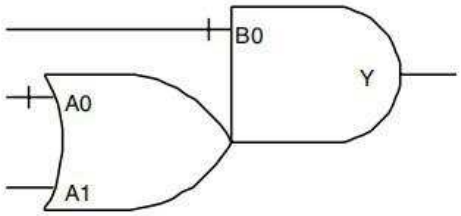
Cell Name	When	Power(pJ)		
		min	avg	max
OA21X2H7H	(!A0 * !A1 * !Y)	0.00026	0.00026	0.00026
	(!A0 * !A1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !Y)	-0.00007	-0.00007	-0.00006

OA21X3H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OA21 cell provides the logical AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	**A1**	**B0**	**Y**
0	**0**	**x**	**0**
x	**1**	**0**	**0**
x	**1**	**1**	**1**
1	**x**	**0**	**0**
1	**x**	**1**	**1**

Footprint

Cell Name	Area
OA21X3H7H	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	Y
OA21X3H7H	0.00089	0.00097	0.00111	0.08640

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OA21X3H7H	0.00000	0.03119	0.03709

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA21X3H7H	A0->Y (RR)	0.08037	0.26359	0.70992
	A1->Y (RR)	0.07668	0.25801	0.69943
	B0->Y (RR)	0.07691	0.25510	0.68736

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA21X3H7H	A0->Y (FF)	0.10660	0.26299	0.63406
	A1->Y (FF)	0.10388	0.25734	0.62301
	B0->Y (FF)	0.05789	0.20586	0.55761

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA21X3H7H	A0	0.00097	0.00106	0.00116
	A0	0.00007	0.00007	0.00007
	A0	-0.00004	-0.00004	-0.00003
	A0	0.00225	0.00235	0.00244
	A1	0.00095	0.00106	0.00117
	A1	0.00001	0.00001	0.00001
	A1	-0.00004	-0.00004	-0.00004
	A1	0.00204	0.00216	0.00225
	B0	0.00092	0.00103	0.00116
	B0	0.00006	0.00007	0.00007
	B0	0.00003	0.00003	0.00007
	B0	0.00189	0.00200	0.00212

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA21X3H7H	A0	0.00233	0.00243	0.00252
	A0	-0.00007	-0.00007	-0.00005
	A0	0.00004	0.00004	0.00004
	A0	0.00108	0.00118	0.00127
	A1	0.00215	0.00225	0.00236
	A1	-0.00001	-0.00001	-0.00001
	A1	0.00004	0.00004	0.00004
	A1	0.00113	0.00123	0.00133
	B0	0.00206	0.00219	0.00230
	B0	-0.00001	-0.00001	-0.00000
	B0	-0.00003	-0.00003	-0.00003
	B0	0.00106	0.00119	0.00130

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X3H7H	(A1 * B0 * Y)	-0.00012	-0.00011	-0.00010
	(A1 * B0 * Y)	-0.00003	-0.00003	-0.00002
	(A1 * B0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * Y)	0.00033	0.00033	0.00033
	(A1 * !B0 * !Y)	-0.00012	-0.00011	-0.00009
	(A1 * !B0 * !Y)	-0.00003	-0.00003	-0.00002
	(A1 * !B0 * !Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * !Y)	0.00032	0.00033	0.00033
	(!A1 * !B0 * !Y)	-0.00015	-0.00015	-0.00014
	(!A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !Y)	0.00002	0.00002	0.00003
	(!A1 * !B0 * !Y)	0.00027	0.00028	0.00028

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X3H7H	(A1 * B0 * Y)	0.00011	0.00012	0.00012
	(A1 * B0 * Y)	0.00003	0.00003	0.00003
	(A1 * B0 * Y)	-0.00001	-0.00000	0.00001
	(A1 * B0 * Y)	-0.00033	-0.00033	-0.00032
	(A1 * !B0 * !Y)	0.00012	0.00012	0.00012
	(A1 * !B0 * !Y)	0.00003	0.00003	0.00003
	(A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * !Y)	-0.00033	-0.00033	-0.00032
	(!A1 * !B0 * !Y)	0.00015	0.00015	0.00015
	(!A1 * !B0 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * !Y)	-0.00003	-0.00002	-0.00002
	(!A1 * !B0 * !Y)	-0.00028	-0.00027	-0.00024

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X3H7H	(A0 * B0 * Y)	-0.00001	-0.00000	0.00000
	(A0 * B0 * Y)	-0.00004	-0.00004	-0.00003
	(A0 * B0 * Y)	0.00000	0.00001	0.00001
	(A0 * B0 * Y)	0.00034	0.00034	0.00034
	(A0 * !B0 * !Y)	-0.00015	-0.00014	-0.00012
	(A0 * !B0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * !B0 * !Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * !Y)	0.00026	0.00026	0.00027
	(!A0 * !B0 * !Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * !Y)	0.00022	0.00022	0.00022

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X3H7H	(A0 * B0 * Y)	0.00000	0.00000	0.00001
	(A0 * B0 * Y)	0.00003	0.00004	0.00004
	(A0 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * Y)	-0.00034	-0.00034	-0.00034
	(A0 * !B0 * !Y)	0.00014	0.00015	0.00015
	(A0 * !B0 * !Y)	0.00003	0.00003	0.00003
	(A0 * !B0 * !Y)	-0.00001	-0.00000	-0.00000
	(A0 * !B0 * !Y)	-0.00027	-0.00026	-0.00026
	(!A0 * !B0 * !Y)	0.00018	0.00018	0.00018
	(!A0 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * !Y)	-0.00022	-0.00020	-0.00018

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X3H7H	(!A0 * !A1 * !Y)	-0.00033	-0.00032	-0.00032
	(!A0 * !A1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !Y)	0.00006	0.00007	0.00007

Passive power(pJ) for B0 falling (conditional):

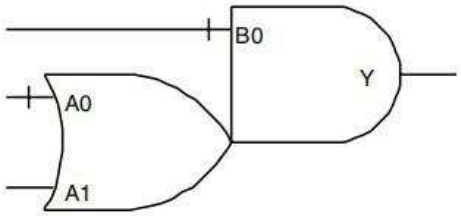
Cell Name	When	Power(pJ)		
		min	avg	max
OA21X3H7H	(!A0 * !A1 * !Y)	0.00032	0.00033	0.00033
	(!A0 * !A1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !Y)	-0.00007	-0.00007	-0.00006

OA21X4H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OA21 cell provides the logical AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0	Y
0	0	x	0
x	1	0	0
x	1	1	1
1	x	0	0
1	x	1	1

Footprint

Cell Name	Area
OA21X4H7H	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	Y
OA21X4H7H	0.00096	0.00104	0.00116	0.10880

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OA21X4H7H	0.00000	0.04594	0.06243

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA21X4H7H	A0->Y (RR)	0.07732	0.26082	0.70708
	A1->Y (RR)	0.07344	0.25504	0.69604
	B0->Y (RR)	0.07354	0.25184	0.68333

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA21X4H7H	A0->Y (FF)	0.10456	0.26233	0.63565
	A1->Y (FF)	0.10148	0.25638	0.62383
	B0->Y (FF)	0.05602	0.20529	0.55930

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA21X4H7H	A0	0.00114	0.00126	0.00136
	A0	0.00007	0.00007	0.00007
	A0	-0.00004	-0.00004	-0.00004
	A0	0.00251	0.00263	0.00273
	A1	0.00113	0.00126	0.00137
	A1	-0.00001	-0.00001	-0.00000
	A1	-0.00004	-0.00004	-0.00004
	A1	0.00228	0.00241	0.00252
	B0	0.00109	0.00123	0.00136
	B0	0.00006	0.00007	0.00007
	B0	0.00005	0.00005	0.00006
	B0	0.00211	0.00224	0.00237

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA21X4H7H	A0	0.00257	0.00269	0.00280
	A0	-0.00007	-0.00007	-0.00007
	A0	0.00004	0.00004	0.00004
	A0	0.00124	0.00135	0.00147
	A1	0.00236	0.00248	0.00260
	A1	0.00000	0.00001	0.00001
	A1	0.00004	0.00004	0.00004
	A1	0.00129	0.00140	0.00153
	B0	0.00227	0.00242	0.00254
	B0	0.00000	0.00001	0.00001
	B0	-0.00005	-0.00005	-0.00002
	B0	0.00122	0.00137	0.00149

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X4H7H	(A1 * B0 * Y)	-0.00014	-0.00012	-0.00010
	(A1 * B0 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * Y)	0.00034	0.00035	0.00035
	(A1 * !B0 * !Y)	-0.00013	-0.00012	-0.00010
	(A1 * !B0 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !Y)	0.00034	0.00034	0.00035
	(!A1 * !B0 * !Y)	-0.00017	-0.00017	-0.00016
	(!A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !Y)	0.00029	0.00030	0.00030

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X4H7H	(A1 * B0 * Y)	0.00013	0.00013	0.00014
	(A1 * B0 * Y)	0.00003	0.00003	0.00003
	(A1 * B0 * Y)	-0.00001	-0.00001	0.00000
	(A1 * B0 * Y)	-0.00035	-0.00034	-0.00034
	(A1 * !B0 * !Y)	0.00013	0.00013	0.00013
	(A1 * !B0 * !Y)	0.00003	0.00003	0.00003
	(A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !Y)	-0.00035	-0.00034	-0.00034
	(!A1 * !B0 * !Y)	0.00017	0.00017	0.00017
	(!A1 * !B0 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !Y)	-0.00030	-0.00028	-0.00024

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X4H7H	(A0 * B0 * Y)	-0.00001	-0.00000	0.00000
	(A0 * B0 * Y)	-0.00005	-0.00005	-0.00004
	(A0 * B0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * Y)	0.00036	0.00036	0.00037
	(A0 * !B0 * !Y)	-0.00016	-0.00015	-0.00013
	(A0 * !B0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !Y)	0.00028	0.00028	0.00028
	(!A0 * !B0 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * !Y)	0.00023	0.00023	0.00023

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X4H7H	(A0 * B0 * Y)	0.00000	0.00000	0.00001
	(A0 * B0 * Y)	0.00004	0.00005	0.00005
	(A0 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * Y)	-0.00037	-0.00036	-0.00036
	(A0 * !B0 * !Y)	0.00016	0.00016	0.00016
	(A0 * !B0 * !Y)	0.00003	0.00003	0.00003
	(A0 * !B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * !Y)	-0.00028	-0.00028	-0.00028
	(!A0 * !B0 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * !Y)	-0.00023	-0.00021	-0.00018

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X4H7H	(!A0 * !A1 * !Y)	-0.00034	-0.00034	-0.00034
	(!A0 * !A1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !Y)	0.00003	0.00003	0.00004
	(!A0 * !A1 * !Y)	0.00007	0.00007	0.00007

Passive power(pJ) for B0 falling (conditional):

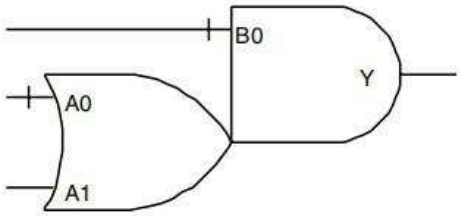
Cell Name	When	Power(pJ)		
		min	avg	max
OA21X4H7H	(!A0 * !A1 * !Y)	0.00034	0.00034	0.00035
	(!A0 * !A1 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !A1 * !Y)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * !Y)	-0.00007	-0.00007	-0.00007

OA21X6H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OA21 cell provides the logical AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0	Y
0	0	x	0
x	1	0	0
x	1	1	1
1	x	0	0
1	x	1	1

Footprint

Cell Name	Area
OA21X6H7H	3.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	Y
OA21X6H7H	0.00106	0.00120	0.00133	0.16343

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OA21X6H7H	0.00000	0.06670	0.08808

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA21X6H7H	A0->Y (RR)	0.08791	0.27653	0.73445
	A1->Y (RR)	0.08393	0.27085	0.72407
	B0->Y (RR)	0.08467	0.26904	0.71508

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA21X6H7H	A0->Y (FF)	0.11904	0.28346	0.66975
	A1->Y (FF)	0.11620	0.27797	0.66038
	B0->Y (FF)	0.06358	0.21951	0.58891

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA21X6H7H	A0	0.00191	0.00209	0.00226
	A0	0.00006	0.00006	0.00006
	A0	-0.00002	-0.00002	-0.00002
	A0	0.00344	0.00362	0.00379
	A1	0.00190	0.00209	0.00228
	A1	-0.00003	-0.00003	-0.00002
	A1	-0.00002	-0.00002	-0.00002
	A1	0.00319	0.00338	0.00356
	B0	0.00186	0.00206	0.00227
	B0	0.00006	0.00006	0.00006
	B0	0.00008	0.00008	0.00009
	B0	0.00300	0.00319	0.00340

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA21X6H7H	A0	0.00352	0.00369	0.00386
	A0	-0.00006	-0.00006	-0.00004
	A0	0.00002	0.00002	0.00002
	A0	0.00203	0.00219	0.00237
	A1	0.00327	0.00344	0.00363
	A1	0.00003	0.00003	0.00008
	A1	0.00002	0.00002	0.00002
	A1	0.00206	0.00223	0.00242
	B0	0.00319	0.00341	0.00359
	B0	0.00002	0.00003	0.00004
	B0	-0.00008	-0.00008	-0.00007
	B0	0.00201	0.00223	0.00242

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X6H7H	(A1 * B0 * Y)	-0.00016	-0.00015	-0.00013
	(A1 * B0 * Y)	-0.00004	-0.00003	-0.00003
	(A1 * B0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * Y)	0.00037	0.00037	0.00037
	(A1 * !B0 * !Y)	-0.00016	-0.00015	-0.00012
	(A1 * !B0 * !Y)	-0.00004	-0.00003	-0.00003
	(A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !Y)	0.00037	0.00037	0.00037
	(!A1 * !B0 * !Y)	-0.00020	-0.00020	-0.00020
	(!A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !Y)	0.00002	0.00003	0.00004
	(!A1 * !B0 * !Y)	0.00030	0.00031	0.00031

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X6H7H	(A1 * B0 * Y)	0.00016	0.00016	0.00016
	(A1 * B0 * Y)	0.00003	0.00003	0.00004
	(A1 * B0 * Y)	-0.00001	-0.00001	0.00000
	(A1 * B0 * Y)	-0.00037	-0.00037	-0.00037
	(A1 * !B0 * !Y)	0.00016	0.00016	0.00016
	(A1 * !B0 * !Y)	0.00003	0.00003	0.00004
	(A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !Y)	-0.00037	-0.00037	-0.00037
	(!A1 * !B0 * !Y)	0.00020	0.00020	0.00020
	(!A1 * !B0 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * !Y)	-0.00004	-0.00003	-0.00002
	(!A1 * !B0 * !Y)	-0.00031	-0.00029	-0.00026

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X6H7H	(A0 * B0 * Y)	-0.00000	0.00000	0.00001
	(A0 * B0 * Y)	-0.00006	-0.00006	-0.00005
	(A0 * B0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * Y)	0.00041	0.00042	0.00042
	(A0 * !B0 * !Y)	-0.00020	-0.00019	-0.00017
	(A0 * !B0 * !Y)	-0.00004	-0.00004	-0.00003
	(A0 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !Y)	0.00030	0.00031	0.00031
	(!A0 * !B0 * !Y)	-0.00025	-0.00025	-0.00025
	(!A0 * !B0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B0 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !B0 * !Y)	0.00025	0.00025	0.00025

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X6H7H	(A0 * B0 * Y)	-0.00000	0.00000	0.00001
	(A0 * B0 * Y)	0.00005	0.00006	0.00006
	(A0 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * Y)	-0.00042	-0.00042	-0.00041
	(A0 * !B0 * !Y)	0.00020	0.00020	0.00020
	(A0 * !B0 * !Y)	0.00004	0.00004	0.00004
	(A0 * !B0 * !Y)	-0.00001	-0.00001	0.00000
	(A0 * !B0 * !Y)	-0.00031	-0.00031	-0.00030
	(!A0 * !B0 * !Y)	0.00025	0.00025	0.00025
	(!A0 * !B0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !B0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !B0 * !Y)	-0.00025	-0.00023	-0.00019

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X6H7H	(!A0 * !A1 * !Y)	-0.00041	-0.00040	-0.00040
	(!A0 * !A1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * !Y)	0.00003	0.00004	0.00005
	(!A0 * !A1 * !Y)	0.00006	0.00006	0.00007

Passive power(pJ) for B0 falling (conditional):

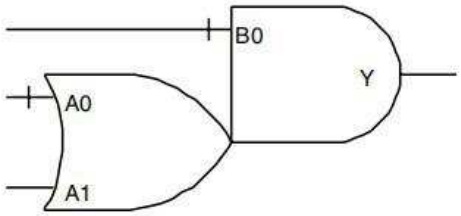
Cell Name	When	Power(pJ)		
		min	avg	max
OA21X6H7H	(!A0 * !A1 * !Y)	0.00040	0.00040	0.00041
	(!A0 * !A1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * !Y)	-0.00004	-0.00004	-0.00003
	(!A0 * !A1 * !Y)	-0.00007	-0.00006	-0.00006

OA21X8H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OA21 cell provides the logical AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0	Y
0	0	x	0
x	1	0	0
x	1	1	1
1	x	0	0
1	x	1	1

Footprint

Cell Name	Area
OA21X8H7H	4.76000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	Y
OA21X8H7H	0.00187	0.00200	0.00212	0.21777

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OA21X8H7H	0.00000	0.09208	0.12485

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA21X8H7H	A0->Y (RR)	0.07852	0.26308	0.71106
	A1->Y (RR)	0.07328	0.25572	0.69761
	B0->Y (RR)	0.07309	0.25272	0.68563

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA21X8H7H	A0->Y (FF)	0.10637	0.26602	0.64181
	A1->Y (FF)	0.10116	0.25707	0.62570
	B0->Y (FF)	0.05483	0.20625	0.56347

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA21X8H7H	A0	0.00247	0.00273	0.00297
	A0	0.00013	0.00013	0.00014
	A0	-0.00008	-0.00007	-0.00002
	A0	0.00521	0.00548	0.00572
	A1	0.00248	0.00276	0.00302
	A1	-0.00001	-0.00001	-0.00000
	A1	-0.00008	-0.00007	-0.00007
	A1	0.00478	0.00507	0.00532
	B0	0.00246	0.00274	0.00303
	B0	0.00012	0.00013	0.00014
	B0	0.00002	0.00010	0.00018
	B0	0.00443	0.00471	0.00500

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA21X8H7H	A0	0.00539	0.00564	0.00588
	A0	-0.00014	-0.00013	-0.00013
	A0	0.00007	0.00007	0.00008
	A0	0.00269	0.00293	0.00318
	A1	0.00476	0.00502	0.00529
	A1	0.00001	0.00001	0.00001
	A1	0.00007	0.00007	0.00008
	A1	0.00261	0.00286	0.00313
	B0	0.00469	0.00500	0.00525
	B0	0.00000	0.00001	0.00002
	B0	-0.00009	-0.00009	-0.00002
	B0	0.00258	0.00289	0.00314

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X8H7H	(A1 * B0 * Y)	-0.00030	-0.00027	-0.00023
	(A1 * B0 * Y)	-0.00006	-0.00006	-0.00004
	(A1 * B0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * Y)	0.00063	0.00064	0.00065
	(A1 * !B0 * !Y)	-0.00031	-0.00027	-0.00022
	(A1 * !B0 * !Y)	-0.00006	-0.00006	-0.00006
	(A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !Y)	0.00062	0.00063	0.00063
	(!A1 * !B0 * !Y)	-0.00041	-0.00040	-0.00040
	(!A1 * !B0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A1 * !B0 * !Y)	0.00002	0.00004	0.00004
	(!A1 * !B0 * !Y)	0.00051	0.00052	0.00052

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X8H7H	(A1 * B0 * Y)	0.00030	0.00030	0.00031
	(A1 * B0 * Y)	0.00004	0.00006	0.00006
	(A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * Y)	-0.00063	-0.00063	-0.00062
	(A1 * !B0 * !Y)	0.00030	0.00030	0.00031
	(A1 * !B0 * !Y)	0.00006	0.00006	0.00006
	(A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !Y)	-0.00062	-0.00062	-0.00062
	(!A1 * !B0 * !Y)	0.00041	0.00041	0.00042
	(!A1 * !B0 * !Y)	0.00002	0.00003	0.00003
	(!A1 * !B0 * !Y)	-0.00004	-0.00004	-0.00002
	(!A1 * !B0 * !Y)	-0.00051	-0.00048	-0.00045

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X8H7H	(A0 * B0 * Y)	-0.00001	-0.00000	0.00000
	(A0 * B0 * Y)	-0.00008	-0.00008	-0.00007
	(A0 * B0 * Y)	0.00001	0.00001	0.00002
	(A0 * B0 * Y)	0.00077	0.00077	0.00078
	(A0 * !B0 * !Y)	-0.00036	-0.00033	-0.00028
	(A0 * !B0 * !Y)	-0.00006	-0.00006	-0.00005
	(A0 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !Y)	0.00056	0.00056	0.00056
	(!A0 * !B0 * !Y)	-0.00046	-0.00046	-0.00046
	(!A0 * !B0 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * !B0 * !Y)	0.00004	0.00004	0.00004
	(!A0 * !B0 * !Y)	0.00045	0.00045	0.00045

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X8H7H	(A0 * B0 * Y)	0.00000	0.00000	0.00001
	(A0 * B0 * Y)	0.00007	0.00008	0.00009
	(A0 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * Y)	-0.00077	-0.00077	-0.00076
	(A0 * !B0 * !Y)	0.00036	0.00036	0.00036
	(A0 * !B0 * !Y)	0.00006	0.00006	0.00006
	(A0 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !Y)	-0.00056	-0.00056	-0.00055
	(!A0 * !B0 * !Y)	0.00046	0.00046	0.00047
	(!A0 * !B0 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !B0 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !B0 * !Y)	-0.00045	-0.00042	-0.00039

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X8H7H	(!A0 * !A1 * !Y)	-0.00065	-0.00064	-0.00064
	(!A0 * !A1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * !Y)	0.00006	0.00007	0.00007
	(!A0 * !A1 * !Y)	0.00014	0.00015	0.00016

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X8H7H	(!A0 * !A1 * !Y)	0.00064	0.00064	0.00065
	(!A0 * !A1 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * !Y)	-0.00007	-0.00006	-0.00006
	(!A0 * !A1 * !Y)	-0.00015	-0.00015	-0.00014

OA221X0P5H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

OA221 (Y = (A0 + A1) • (B0 + B1) • C0)

Truth Table

INPUT					OUTPUT
A0	A1	B0	B1	C0	Y
0	0	x	x	x	0
x	1	0	0	x	0
x	1	x	1	0	0
x	1	x	1	1	1
x	1	1	x	0	0
x	1	1	x	1	1
1	x	0	0	x	0
1	x	x	1	0	0
1	x	x	1	1	1
1	x	1	x	0	0
1	x	1	x	1	1

Footprint

Cell Name	Area
OA221X0P5H7H	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	A1	B0	B1	C0	Y
OA221X0P5H7H	0.00090	0.00086	0.00085	0.00081	0.00095	0.03034

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OA221X0P5H7H	0.00000	0.01755	0.02636

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA221X0P5H7H	A0->Y (RR)	0.13392	0.31390	0.75444
	A1->Y (RR)	0.13932	0.32051	0.76400
	B0->Y (RR)	0.12466	0.30621	0.75226
	B1->Y (RR)	0.12951	0.31273	0.76327
	C0->Y (RR)	0.11733	0.29483	0.73031

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA221X0P5H7H	A0->Y (FF)	0.13885	0.29221	0.66413
	A1->Y (FF)	0.14248	0.29790	0.67193
	B0->Y (FF)	0.12215	0.27192	0.63323
	B1->Y (FF)	0.12560	0.27769	0.64187
	C0->Y (FF)	0.06857	0.21190	0.55682

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA221X0P5H7H	A0	0.00039	0.00046	0.00052
	A0	0.00011	0.00011	0.00011
	A0	-0.00012	-0.00012	-0.00011
	A0	0.00208	0.00215	0.00221
	A1	0.00039	0.00045	0.00050
	A1	0.00015	0.00015	0.00016
	A1	-0.00012	-0.00012	-0.00011
	A1	0.00222	0.00228	0.00233
	B0	0.00040	0.00046	0.00051
	B0	0.00010	0.00011	0.00011
	B0	-0.00005	-0.00005	-0.00005
	B0	0.00172	0.00177	0.00183
	B1	0.00040	0.00045	0.00050
	B1	0.00015	0.00015	0.00015
	B1	-0.00005	-0.00005	-0.00005
	B1	0.00182	0.00186	0.00191
	C0	0.00038	0.00043	0.00050
	C0	0.00015	0.00015	0.00015
	C0	-0.00000	0.00000	0.00002
	C0	0.00157	0.00162	0.00169

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA221X0P5H7H	A0	0.00216	0.00222	0.00229
	A0	-0.00006	-0.00006	-0.00005
	A0	0.00012	0.00012	0.00012
	A0	0.00058	0.00064	0.00071
	A1	0.00230	0.00237	0.00243
	A1	-0.00011	-0.00011	-0.00011
	A1	0.00012	0.00012	0.00012
	A1	0.00057	0.00063	0.00069
	B0	0.00184	0.00190	0.00196
	B0	-0.00006	-0.00006	-0.00006
	B0	0.00005	0.00005	0.00006
	B0	0.00056	0.00062	0.00068
	B1	0.00198	0.00204	0.00210
	B1	-0.00011	-0.00011	-0.00009
	B1	0.00005	0.00005	0.00007
	B1	0.00058	0.00063	0.00069
	C0	0.00171	0.00178	0.00183
	C0	-0.00006	-0.00006	-0.00006
	C0	-0.00000	0.00000	0.00001
	C0	0.00048	0.00055	0.00060

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X0P5H7H	**(A1 * B0 * C0 * Y)**	-0.00000	0.00000	0.00000
	(A1 * B0 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * Y)	0.00034	0.00034	0.00035
	(A1 * B0 * !C0 * !Y)	-0.00016	-0.00015	-0.00014
	(A1 * B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00001
	(A1 * B0 * !C0 * !Y)	0.00024	0.00024	0.00024
	(A1 * !B0 * B1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * B1 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00001
	(A1 * !B0 * B1 * C0 * Y)	0.00034	0.00035	0.00035
	(A1 * !B0 * B1 * !C0 * !Y)	-0.00016	-0.00015	-0.00014
	(A1 * !B0 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00001
	(A1 * !B0 * B1 * !C0 * !Y)	0.00024	0.00024	0.00024
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00016	-0.00015	-0.00014
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00001
	(A1 * !B0 * !B1 * C0 * !Y)	0.00023	0.00024	0.00024
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00016	-0.00015	-0.00014
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00024	0.00024	0.00024
	(!A1 * B0 * !C0 * !Y)	-0.00018	-0.00018	-0.00018
	(!A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * !C0 * !Y)	0.00019	0.00019	0.00020
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00018	-0.00018	-0.00018
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00019	0.00019	0.00020
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00018	-0.00017	-0.00017
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00020	0.00020	0.00020
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00018	-0.00018	-0.00017
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00019	0.00020	0.00020

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X0P5H7H	**(A1 * B0 * C0 * Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * Y)	0.00003	0.00003	0.00004
	(A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * Y)	-0.00035	-0.00034	-0.00034
	(A1 * B0 * !C0 * !Y)	0.00015	0.00015	0.00016
	(A1 * B0 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !C0 * !Y)	-0.00024	-0.00024	-0.00024
	(A1 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * C0 * Y)	0.00003	0.00003	0.00004
	(A1 * !B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * B1 * C0 * Y)	-0.00035	-0.00034	-0.00034
	(A1 * !B0 * B1 * !C0 * !Y)	0.00015	0.00015	0.00016
	(A1 * !B0 * B1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * B1 * !C0 * !Y)	-0.00024	-0.00024	-0.00024
	(A1 * !B0 * !B1 * C0 * !Y)	0.00015	0.00015	0.00016
	(A1 * !B0 * !B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00001	-0.00000	0.00000
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00024	-0.00024	-0.00023
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00015	0.00015	0.00016
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00024	-0.00024	-0.00024
	(!A1 * B0 * !C0 * !Y)	0.00018	0.00018	0.00018
	(!A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * !C0 * !Y)	-0.00019	-0.00018	-0.00015
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00018	0.00018	0.00018
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00019	-0.00018	-0.00015
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00017	0.00018	0.00018
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00020	-0.00018	-0.00016
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00017	0.00018	0.00018
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00020	-0.00018	-0.00017

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X0P5H7H	**(A0 * B0 * C0 * Y)**	-0.00009	-0.00009	-0.00008
	(A0 * B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * Y)	0.00032	0.00032	0.00032
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	-0.00015	-0.00014	-0.00013
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	0.00027	0.00027	0.00027
	(A0 * !B0 * B1 * C0 * Y)	-0.00009	-0.00009	-0.00007
	(A0 * !B0 * B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * B1 * C0 * Y)	0.00032	0.00032	0.00032
	(A0 * !B0 * !B1 * !Y)	-0.00015	-0.00014	-0.00013
	(A0 * !B0 * !B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * !B1 * !Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * !B1 * !Y)	0.00026	0.00026	0.00027
	(!A0 * B0 * !C0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * !C0 * !Y)	0.00001	0.00002	0.00003
	(!A0 * B0 * !C0 * !Y)	0.00021	0.00022	0.00022
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	0.00000
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00022	0.00022	0.00022
	(!A0 * !B0 * !B1 * C0 * !Y)	-0.00017	-0.00017	-0.00016
	(!A0 * !B0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !B0 * !B1 * C0 * !Y)	0.00022	0.00022	0.00023
	(!A0 * !B0 * !B1 * !C0 * !Y)	-0.00017	-0.00017	-0.00016
	(!A0 * !B0 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !B0 * !B1 * !C0 * !Y)	0.00022	0.00022	0.00022

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X0P5H7H	**(A0 * B0 * C0 * Y)**	0.00009	0.00010	0.00010
	(A0 * B0 * C0 * Y)	0.00002	0.00002	0.00002
	(A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * Y)	-0.00032	-0.00032	-0.00032
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	0.00014	0.00015	0.00015
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	-0.00027	-0.00027	-0.00026
	(A0 * !B0 * B1 * C0 * Y)	0.00009	0.00010	0.00010
	(A0 * !B0 * B1 * C0 * Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * B1 * C0 * Y)	-0.00032	-0.00032	-0.00032
	(A0 * !B0 * !B1 * !Y)	0.00014	0.00015	0.00015
	(A0 * !B0 * !B1 * !Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * !B1 * !Y)	-0.00001	-0.00000	-0.00000
	(A0 * !B0 * !B1 * !Y)	-0.00027	-0.00026	-0.00026
	(!A0 * B0 * !C0 * !Y)	0.00017	0.00017	0.00017
	(!A0 * B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * B0 * !C0 * !Y)	-0.00022	-0.00020	-0.00019
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00017	0.00017	0.00017
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00022	-0.00021	-0.00019
	(!A0 * !B0 * !B1 * C0 * !Y)	0.00016	0.00017	0.00017
	(!A0 * !B0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B0 * !B1 * C0 * !Y)	-0.00022	-0.00021	-0.00019
	(!A0 * !B0 * !B1 * !C0 * !Y)	0.00016	0.00017	0.00017
	(!A0 * !B0 * !B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * !B1 * !C0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * !C0 * !Y)	-0.00022	-0.00021	-0.00019

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X0P5H7H	**(A0 * B1 * C0 * Y)**	-0.00000	0.00000	0.00000
	(A0 * B1 * C0 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B1 * C0 * Y)	0.00033	0.00034	0.00034
	(A0 * B1 * !C0 * !Y)	-0.00012	-0.00012	-0.00010
	(A0 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B1 * !C0 * !Y)	0.00026	0.00026	0.00026
	(A0 * !B1 * !C0 * !Y)	-0.00015	-0.00015	-0.00014
	(A0 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B1 * !C0 * !Y)	0.00023	0.00023	0.00023
	(!A0 * A1 * B1 * C0 * Y)	-0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * Y)	0.00033	0.00034	0.00034
	(!A0 * A1 * B1 * !C0 * !Y)	-0.00012	-0.00012	-0.00010
	(!A0 * A1 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * !C0 * !Y)	0.00026	0.00026	0.00026
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00015	-0.00015	-0.00014
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00022	0.00023	0.00023
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00013	-0.00012	-0.00011
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * C0 * !Y)	0.00004	0.00004	0.00005
	(!A0 * !A1 * B1 * C0 * !Y)	0.00007	0.00007	0.00008
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00013	-0.00012	-0.00011
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * !B1 * C0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !A1 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B1 * C0 * !Y)	0.00004	0.00004	0.00005
	(!A0 * !A1 * !B1 * C0 * !Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * !B1 * !C0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !A1 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B1 * !C0 * !Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !B1 * !C0 * !Y)	0.00007	0.00007	0.00008

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X0P5H7H	**(A0 * B1 * C0 * Y)**	0.00000	0.00000	0.00000
	(A0 * B1 * C0 * Y)	0.00002	0.00003	0.00003
	(A0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * C0 * Y)	-0.00034	-0.00033	-0.00033
	(A0 * B1 * !C0 * !Y)	0.00012	0.00012	0.00012
	(A0 * B1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * B1 * !C0 * !Y)	-0.00026	-0.00026	-0.00026
	(A0 * !B1 * !C0 * !Y)	0.00014	0.00015	0.00015
	(A0 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B1 * !C0 * !Y)	-0.00023	-0.00022	-0.00020
	(!A0 * A1 * B1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * B1 * C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B1 * C0 * Y)	-0.00034	-0.00033	-0.00033
	(!A0 * A1 * B1 * !C0 * !Y)	0.00012	0.00012	0.00012
	(!A0 * A1 * B1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B1 * !C0 * !Y)	-0.00026	-0.00026	-0.00026
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00015	0.00015	0.00015
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00023	-0.00021	-0.00019
	(!A0 * !A1 * B1 * C0 * !Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00004	-0.00004	-0.00003
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00008	-0.00007	-0.00007
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * !B1 * C0 * !Y)	0.00015	0.00015	0.00015
	(!A0 * !A1 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B1 * C0 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !B1 * C0 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * !B1 * !C0 * !Y)	0.00015	0.00015	0.00015
	(!A0 * !A1 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B1 * !C0 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !B1 * !C0 * !Y)	-0.00008	-0.00007	-0.00007

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X0P5H7H	**(A0 * B0 * C0 * Y)**	-0.00009	-0.00008	-0.00007
	(A0 * B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * Y)	0.00028	0.00028	0.00028
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	-0.00011	-0.00011	-0.00010
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	0.00025	0.00025	0.00025
	(A0 * !B0 * !C0 * !Y)	-0.00014	-0.00014	-0.00013
	(A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00002
	(A0 * !B0 * !C0 * !Y)	0.00021	0.00022	0.00022
	(!A0 * A1 * B0 * C0 * Y)	-0.00009	-0.00008	-0.00007
	(!A0 * A1 * B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * B0 * C0 * Y)	-0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * C0 * Y)	0.00028	0.00028	0.00028
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00014	-0.00014	-0.00013
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00021	0.00022	0.00022
	(!A0 * !A1 * B0 * C0 * !Y)	-0.00012	-0.00011	-0.00010
	(!A0 * !A1 * B0 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * C0 * !Y)	0.00003	0.00004	0.00004
	(!A0 * !A1 * B0 * C0 * !Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * B0 * !C0 * !Y)	-0.00012	-0.00011	-0.00010
	(!A0 * !A1 * B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !C0 * !Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * B0 * !C0 * !Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * !B0 * C0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !A1 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * C0 * !Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !B0 * C0 * !Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * !B0 * !C0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * !C0 * !Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !B0 * !C0 * !Y)	0.00008	0.00008	0.00009

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X0P5H7H	**(A0 * B0 * C0 * Y)**	0.00009	0.00009	0.00009
	(A0 * B0 * C0 * Y)	0.00002	0.00002	0.00002
	(A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * Y)	-0.00028	-0.00028	-0.00028
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	0.00011	0.00011	0.00011
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	-0.00025	-0.00025	-0.00025
	(A0 * !B0 * !C0 * !Y)	0.00014	0.00014	0.00014
	(A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !C0 * !Y)	-0.00002	-0.00001	-0.00001
	(A0 * !B0 * !C0 * !Y)	-0.00022	-0.00021	-0.00019
	(!A0 * A1 * B0 * C0 * Y)	0.00009	0.00009	0.00009
	(!A0 * A1 * B0 * C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * B0 * C0 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * B0 * C0 * Y)	-0.00028	-0.00028	-0.00028
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00014	0.00014	0.00014
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00022	-0.00021	-0.00019
	(!A0 * !A1 * B0 * C0 * !Y)	0.00012	0.00012	0.00012
	(!A0 * !A1 * B0 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * C0 * !Y)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * B0 * C0 * !Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * B0 * !C0 * !Y)	0.00012	0.00012	0.00012
	(!A0 * !A1 * B0 * !C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * !C0 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * B0 * !C0 * !Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * !B0 * C0 * !Y)	0.00014	0.00014	0.00014
	(!A0 * !A1 * !B0 * C0 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !A1 * !B0 * C0 * !Y)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * !B0 * C0 * !Y)	-0.00008	-0.00008	-0.00007
	(!A0 * !A1 * !B0 * !C0 * !Y)	0.00014	0.00014	0.00014
	(!A0 * !A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * !C0 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !B0 * !C0 * !Y)	-0.00009	-0.00008	-0.00008

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA221X0P5H7H	(A0 * !B0 * !B1 * !Y)	-0.00025	-0.00025	-0.00025
	(A0 * !B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * !Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * !B1 * !Y)	0.00010	0.00010	0.00010
	(!A0 * !B0 * !B1 * !Y)	-0.00025	-0.00025	-0.00025
	(!A0 * !B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * !B1 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !B0 * !B1 * !Y)	0.00009	0.00010	0.00010
	(!A0 * !A1 * B0 * !Y)	-0.00025	-0.00025	-0.00025
	(!A0 * !A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * B0 * !Y)	0.00009	0.00009	0.00009
	(!A0 * !A1 * !B0 * B1 * !Y)	-0.00025	-0.00025	-0.00025
	(!A0 * !A1 * !B0 * B1 * !Y)	-0.00001	-0.00001	0.00000
	(!A0 * !A1 * !B0 * B1 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * !B0 * B1 * !Y)	0.00008	0.00009	0.00009

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA221X0P5H7H	(A0 * !B0 * !B1 * !Y)	0.00025	0.00025	0.00025
	(A0 * !B0 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * !B1 * !Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !B0 * !B1 * !Y)	0.00025	0.00025	0.00025
	(!A0 * !B0 * !B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * !B1 * !Y)	-0.00010	-0.00010	-0.00009
	(!A0 * !A1 * B0 * !Y)	0.00025	0.00025	0.00025
	(!A0 * !A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B0 * !Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * !B0 * B1 * !Y)	0.00025	0.00025	0.00025
	(!A0 * !A1 * !B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !B0 * B1 * !Y)	-0.00009	-0.00009	-0.00008

OA221X0P7H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

OA221 (Y = (A0 + A1) • (B0 + B1) • C0)

Truth Table

INPUT					OUTPUT
A0	A1	B0	B1	C0	Y
0	0	x	x	x	0
x	1	0	0	x	0
x	1	x	1	0	0
x	1	x	1	1	1
x	1	1	x	0	0
x	1	1	x	1	1
1	x	0	0	x	0
1	x	x	1	0	0
1	x	x	1	1	1
1	x	1	x	0	0
1	x	1	x	1	1

Footprint

Cell Name	Area
OA221X0P7H7H	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	A1	B0	B1	C0	Y
OA221X0P7H7H	0.00090	0.00087	0.00085	0.00081	0.00095	0.03453

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OA221X0P7H7H	0.00000	0.01790	0.02841

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA221X0P7H7H	A0->Y (RR)	0.13327	0.31437	0.75640
	A1->Y (RR)	0.13887	0.32115	0.76605
	B0->Y (RR)	0.12402	0.30678	0.75492
	B1->Y (RR)	0.12882	0.31330	0.76584
	C0->Y (RR)	0.11671	0.29551	0.73315

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA221X0P7H7H	A0->Y (FF)	0.13892	0.29437	0.66993
	A1->Y (FF)	0.14277	0.30030	0.67757
	B0->Y (FF)	0.12228	0.27409	0.63952
	B1->Y (FF)	0.12571	0.27986	0.64750
	C0->Y (FF)	0.06815	0.21322	0.56182

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA221X0P7H7H	A0	0.00042	0.00049	0.00055
	A0	0.00010	0.00010	0.00010
	A0	-0.00011	-0.00011	-0.00011
	A0	0.00211	0.00218	0.00224
	A1	0.00042	0.00048	0.00054
	A1	0.00015	0.00015	0.00015
	A1	-0.00011	-0.00011	-0.00011
	A1	0.00226	0.00232	0.00237
	B0	0.00044	0.00049	0.00055
	B0	0.00010	0.00010	0.00010
	B0	-0.00005	-0.00005	-0.00004
	B0	0.00175	0.00181	0.00186
	B1	0.00044	0.00049	0.00054
	B1	0.00015	0.00015	0.00015
	B1	-0.00005	-0.00005	-0.00004
	B1	0.00185	0.00190	0.00195
	C0	0.00041	0.00047	0.00054
	C0	0.00015	0.00015	0.00015
	C0	0.00000	0.00000	0.00002
	C0	0.00160	0.00166	0.00173

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA221X0P7H7H	A0	0.00219	0.00225	0.00232
	A0	-0.00006	-0.00006	-0.00005
	A0	0.00012	0.00012	0.00012
	A0	0.00061	0.00067	0.00074
	A1	0.00233	0.00239	0.00246
	A1	-0.00010	-0.00010	-0.00010
	A1	0.00012	0.00012	0.00012
	A1	0.00058	0.00065	0.00071
	B0	0.00187	0.00193	0.00199
	B0	-0.00006	-0.00006	-0.00005
	B0	0.00004	0.00005	0.00006
	B0	0.00059	0.00065	0.00071
	B1	0.00201	0.00207	0.00213
	B1	-0.00010	-0.00010	-0.00010
	B1	0.00004	0.00005	0.00006
	B1	0.00060	0.00066	0.00072
	C0	0.00174	0.00181	0.00187
	C0	-0.00006	-0.00006	-0.00005
	C0	-0.00000	-0.00000	0.00002
	C0	0.00051	0.00057	0.00063

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X0P7H7H	**(A1 * B0 * C0 * Y)**	-0.00000	-0.00000	0.00000
	(A1 * B0 * C0 * Y)	-0.00003	-0.00003	-0.00002
	(A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * Y)	0.00034	0.00034	0.00035
	(A1 * B0 * !C0 * !Y)	-0.00016	-0.00015	-0.00014
	(A1 * B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00001
	(A1 * B0 * !C0 * !Y)	0.00024	0.00024	0.00024
	(A1 * !B0 * B1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * B1 * C0 * Y)	-0.00003	-0.00003	-0.00002
	(A1 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00001
	(A1 * !B0 * B1 * C0 * Y)	0.00034	0.00034	0.00035
	(A1 * !B0 * B1 * !C0 * !Y)	-0.00015	-0.00015	-0.00014
	(A1 * !B0 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * B1 * !C0 * !Y)	0.00023	0.00024	0.00024
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00016	-0.00015	-0.00013
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !B1 * C0 * !Y)	0.00000	0.00001	0.00002
	(A1 * !B0 * !B1 * C0 * !Y)	0.00023	0.00024	0.00024
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00016	-0.00015	-0.00014
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00024	0.00024	0.00024
	(!A1 * B0 * !C0 * !Y)	-0.00018	-0.00017	-0.00017
	(!A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * !C0 * !Y)	0.00019	0.00019	0.00019
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00018	-0.00018	-0.00017
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00019	0.00019	0.00020
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00018	-0.00017	-0.00017
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00000	0.00001	0.00002
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00019	0.00020	0.00020
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00018	-0.00017	-0.00017
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00019	0.00020	0.00020

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X0P7H7H	**(A1 * B0 * C0 * Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * Y)	0.00002	0.00003	0.00004
	(A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * Y)	-0.00035	-0.00034	-0.00034
	(A1 * B0 * !C0 * !Y)	0.00015	0.00015	0.00016
	(A1 * B0 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !C0 * !Y)	-0.00024	-0.00024	-0.00024
	(A1 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * C0 * Y)	0.00003	0.00003	0.00004
	(A1 * !B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * B1 * C0 * Y)	-0.00035	-0.00034	-0.00034
	(A1 * !B0 * B1 * !C0 * !Y)	0.00015	0.00015	0.00015
	(A1 * !B0 * B1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00000	0.00000
	(A1 * !B0 * B1 * !C0 * !Y)	-0.00024	-0.00024	-0.00023
	(A1 * !B0 * !B1 * C0 * !Y)	0.00015	0.00015	0.00016
	(A1 * !B0 * !B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00001	-0.00000	0.00000
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00024	-0.00024	-0.00023
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00015	0.00015	0.00016
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00024	-0.00024	-0.00024
	(!A1 * B0 * !C0 * !Y)	0.00017	0.00017	0.00018
	(!A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * !C0 * !Y)	-0.00019	-0.00018	-0.00016
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00018	0.00018	0.00018
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00019	-0.00018	-0.00016
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00017	0.00017	0.00018
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00002	-0.00001	-0.00000
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00020	-0.00018	-0.00016
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00017	0.00017	0.00018
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00020	-0.00018	-0.00016

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X0P7H7H	**(A0 * B0 * C0 * Y)**	-0.00009	-0.00008	-0.00007
	(A0 * B0 * C0 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * Y)	0.00033	0.00033	0.00034
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	-0.00015	-0.00014	-0.00013
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	0.00027	0.00027	0.00027
	(A0 * !B0 * B1 * C0 * Y)	-0.00009	-0.00008	-0.00007
	(A0 * !B0 * B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * B1 * C0 * Y)	0.00033	0.00033	0.00034
	(A0 * !B0 * !B1 * !Y)	-0.00015	-0.00014	-0.00013
	(A0 * !B0 * !B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00001
	(A0 * !B0 * !B1 * !Y)	0.00026	0.00027	0.00027
	(!A0 * B0 * !C0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !C0 * !Y)	0.00000	0.00001	0.00002
	(!A0 * B0 * !C0 * !Y)	0.00022	0.00022	0.00023
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00001	0.00002	0.00003
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00022	0.00022	0.00022
	(!A0 * !B0 * !B1 * C0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !B0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !B0 * !B1 * C0 * !Y)	0.00022	0.00023	0.00023
	(!A0 * !B0 * !B1 * !C0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !B0 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * !C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !B0 * !B1 * !C0 * !Y)	0.00022	0.00022	0.00023

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X0P7H7H	**(A0 * B0 * C0 * Y)**	0.00009	0.00009	0.00009
	(A0 * B0 * C0 * Y)	0.00001	0.00002	0.00002
	(A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * Y)	-0.00033	-0.00033	-0.00033
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	0.00015	0.00015	0.00015
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	-0.00027	-0.00027	-0.00027
	(A0 * !B0 * B1 * C0 * Y)	0.00009	0.00009	0.00009
	(A0 * !B0 * B1 * C0 * Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * B1 * C0 * Y)	-0.00033	-0.00033	-0.00033
	(A0 * !B0 * !B1 * !Y)	0.00015	0.00015	0.00015
	(A0 * !B0 * !B1 * !Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * !B1 * !Y)	-0.00001	-0.00000	-0.00000
	(A0 * !B0 * !B1 * !Y)	-0.00027	-0.00027	-0.00026
	(!A0 * B0 * !C0 * !Y)	0.00017	0.00017	0.00017
	(!A0 * B0 * !C0 * !Y)	0.00001	0.00001	0.00002
	(!A0 * B0 * !C0 * !Y)	-0.00002	-0.00001	-0.00000
	(!A0 * B0 * !C0 * !Y)	-0.00022	-0.00020	-0.00018
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00017	0.00017	0.00017
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00003	-0.00002	-0.00001
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00022	-0.00021	-0.00018
	(!A0 * !B0 * !B1 * C0 * !Y)	0.00017	0.00017	0.00017
	(!A0 * !B0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * C0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * C0 * !Y)	-0.00023	-0.00021	-0.00018
	(!A0 * !B0 * !B1 * !C0 * !Y)	0.00017	0.00017	0.00017
	(!A0 * !B0 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B0 * !B1 * !C0 * !Y)	-0.00023	-0.00021	-0.00019

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X0P7H7H	**(A0 * B1 * C0 * Y)**	-0.00000	-0.00000	0.00000
	(A0 * B1 * C0 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * B1 * C0 * Y)	0.00000	0.00000	0.00001
	(A0 * B1 * C0 * Y)	0.00033	0.00034	0.00034
	(A0 * B1 * !C0 * !Y)	-0.00012	-0.00012	-0.00010
	(A0 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00001
	(A0 * B1 * !C0 * !Y)	0.00026	0.00026	0.00026
	(A0 * !B1 * !C0 * !Y)	-0.00015	-0.00015	-0.00014
	(A0 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * !B1 * !C0 * !Y)	0.00023	0.00023	0.00024
	(!A0 * A1 * B1 * C0 * Y)	-0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * Y)	0.00033	0.00033	0.00034
	(!A0 * A1 * B1 * !C0 * !Y)	-0.00012	-0.00012	-0.00011
	(!A0 * A1 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * B1 * !C0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * B1 * !C0 * !Y)	0.00026	0.00026	0.00026
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00015	-0.00015	-0.00014
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00022	0.00023	0.00023
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00013	-0.00012	-0.00011
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * C0 * !Y)	0.00004	0.00004	0.00005
	(!A0 * !A1 * B1 * C0 * !Y)	0.00007	0.00007	0.00008
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00013	-0.00012	-0.00011
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00004	0.00005	0.00005
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00007	0.00007	0.00008
	(!A0 * !A1 * !B1 * C0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !A1 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B1 * C0 * !Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !B1 * C0 * !Y)	0.00007	0.00007	0.00008
	(!A0 * !A1 * !B1 * !C0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !A1 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B1 * !C0 * !Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !B1 * !C0 * !Y)	0.00007	0.00007	0.00008

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X0P7H7H	**(A0 * B1 * C0 * Y)**	0.00000	0.00000	0.00000
	(A0 * B1 * C0 * Y)	0.00003	0.00003	0.00003
	(A0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * C0 * Y)	-0.00034	-0.00033	-0.00033
	(A0 * B1 * !C0 * !Y)	0.00012	0.00012	0.00012
	(A0 * B1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * B1 * !C0 * !Y)	-0.00026	-0.00026	-0.00026
	(A0 * !B1 * !C0 * !Y)	0.00014	0.00015	0.00015
	(A0 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B1 * !C0 * !Y)	-0.00023	-0.00022	-0.00019
	(!A0 * A1 * B1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * B1 * C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B1 * C0 * Y)	-0.00034	-0.00033	-0.00033
	(!A0 * A1 * B1 * !C0 * !Y)	0.00012	0.00012	0.00012
	(!A0 * A1 * B1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * B1 * !C0 * !Y)	-0.00001	-0.00000	-0.00000
	(!A0 * A1 * B1 * !C0 * !Y)	-0.00026	-0.00026	-0.00026
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00014	0.00015	0.00015
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00023	-0.00021	-0.00019
	(!A0 * !A1 * B1 * C0 * !Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00004	-0.00004	-0.00003
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00008	-0.00007	-0.00007
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * !B1 * C0 * !Y)	0.00015	0.00015	0.00015
	(!A0 * !A1 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B1 * C0 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !B1 * C0 * !Y)	-0.00008	-0.00007	-0.00007
	(!A0 * !A1 * !B1 * !C0 * !Y)	0.00015	0.00015	0.00015
	(!A0 * !A1 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B1 * !C0 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !B1 * !C0 * !Y)	-0.00008	-0.00007	-0.00007

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X0P7H7H	**(A0 * B0 * C0 * Y)**	-0.00009	-0.00008	-0.00007
	(A0 * B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * Y)	0.00028	0.00028	0.00028
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	-0.00011	-0.00011	-0.00010
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00001
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	0.00025	0.00025	0.00025
	(A0 * !B0 * !C0 * !Y)	-0.00014	-0.00014	-0.00013
	(A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00002
	(A0 * !B0 * !C0 * !Y)	0.00021	0.00022	0.00022
	(!A0 * A1 * B0 * C0 * Y)	-0.00009	-0.00008	-0.00007
	(!A0 * A1 * B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * C0 * Y)	0.00028	0.00028	0.00028
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00014	-0.00014	-0.00013
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00021	0.00022	0.00022
	(!A0 * !A1 * B0 * C0 * !Y)	-0.00012	-0.00011	-0.00010
	(!A0 * !A1 * B0 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * C0 * !Y)	0.00003	0.00003	0.00004
	(!A0 * !A1 * B0 * C0 * !Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * B0 * !C0 * !Y)	-0.00012	-0.00011	-0.00010
	(!A0 * !A1 * B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !C0 * !Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * B0 * !C0 * !Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * !B0 * C0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !A1 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * C0 * !Y)	0.00003	0.00004	0.00004
	(!A0 * !A1 * !B0 * C0 * !Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * !B0 * !C0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * !C0 * !Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !B0 * !C0 * !Y)	0.00008	0.00008	0.00009

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X0P7H7H	**(A0 * B0 * C0 * Y)**	0.00009	0.00009	0.00009
	(A0 * B0 * C0 * Y)	0.00002	0.00002	0.00002
	(A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * Y)	-0.00028	-0.00028	-0.00028
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	0.00011	0.00011	0.00011
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	-0.00001	-0.00000	-0.00000
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	-0.00025	-0.00025	-0.00024
	(A0 * !B0 * !C0 * !Y)	0.00014	0.00014	0.00014
	(A0 * !B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * !C0 * !Y)	-0.00002	-0.00001	-0.00001
	(A0 * !B0 * !C0 * !Y)	-0.00022	-0.00021	-0.00019
	(!A0 * A1 * B0 * C0 * Y)	0.00009	0.00009	0.00009
	(!A0 * A1 * B0 * C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * B0 * C0 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * B0 * C0 * Y)	-0.00028	-0.00028	-0.00027
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00014	0.00014	0.00014
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00022	-0.00021	-0.00019
	(!A0 * !A1 * B0 * C0 * !Y)	0.00012	0.00012	0.00012
	(!A0 * !A1 * B0 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * C0 * !Y)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * B0 * C0 * !Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * B0 * !C0 * !Y)	0.00012	0.00012	0.00012
	(!A0 * !A1 * B0 * !C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * !C0 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * B0 * !C0 * !Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * !B0 * C0 * !Y)	0.00014	0.00014	0.00014
	(!A0 * !A1 * !B0 * C0 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !A1 * !B0 * C0 * !Y)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * !B0 * C0 * !Y)	-0.00008	-0.00008	-0.00007
	(!A0 * !A1 * !B0 * !C0 * !Y)	0.00014	0.00014	0.00014
	(!A0 * !A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * !C0 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !B0 * !C0 * !Y)	-0.00009	-0.00008	-0.00008

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA221X0P7H7H	(A0 * !B0 * !B1 * !Y)	-0.00025	-0.00025	-0.00025
	(A0 * !B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * !Y)	0.00001	0.00002	0.00002
	(A0 * !B0 * !B1 * !Y)	0.00010	0.00010	0.00010
	(!A0 * !B0 * !B1 * !Y)	-0.00025	-0.00025	-0.00025
	(!A0 * !B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * !B1 * !Y)	0.00001	0.00002	0.00003
	(!A0 * !B0 * !B1 * !Y)	0.00009	0.00010	0.00010
	(!A0 * !A1 * B0 * !Y)	-0.00025	-0.00025	-0.00025
	(!A0 * !A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * !Y)	0.00009	0.00009	0.00009
	(!A0 * !A1 * !B0 * B1 * !Y)	-0.00025	-0.00025	-0.00025
	(!A0 * !A1 * !B0 * B1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !B0 * B1 * !Y)	0.00001	0.00002	0.00003
	(!A0 * !A1 * !B0 * B1 * !Y)	0.00008	0.00009	0.00009

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA221X0P7H7H	(A0 * !B0 * !B1 * !Y)	0.00025	0.00025	0.00025
	(A0 * !B0 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * !B0 * !B1 * !Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !B0 * !B1 * !Y)	0.00025	0.00025	0.00025
	(!A0 * !B0 * !B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B0 * !B1 * !Y)	-0.00010	-0.00010	-0.00009
	(!A0 * !A1 * B0 * !Y)	0.00025	0.00025	0.00025
	(!A0 * !A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * !B0 * B1 * !Y)	0.00025	0.00025	0.00025
	(!A0 * !A1 * !B0 * B1 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !A1 * !B0 * B1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * !B0 * B1 * !Y)	-0.00009	-0.00009	-0.00008

OA221X1H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

OA221 (Y = (A0 + A1) • (B0 + B1) • C0)

Truth Table

INPUT					OUTPUT
A0	A1	B0	B1	C0	Y
0	0	x	x	x	0
x	1	0	0	x	0
x	1	x	1	0	0
x	1	x	1	1	1
x	1	1	x	0	0
x	1	1	x	1	1
1	x	0	0	x	0
1	x	x	1	0	0
1	x	x	1	1	1
1	x	1	x	0	0
1	x	1	x	1	1

Footprint

Cell Name	Area
OA221X1H7H	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	A1	B0	B1	C0	Y
OA221X1H7H	0.00090	0.00088	0.00085	0.00081	0.00095	0.04129

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OA221X1H7H	0.00000	0.01894	0.03280

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA221X1H7H	A0->Y (RR)	0.13206	0.31484	0.75904
	A1->Y (RR)	0.13757	0.32156	0.76897
	B0->Y (RR)	0.12281	0.30739	0.75801
	B1->Y (RR)	0.12763	0.31386	0.76918
	C0->Y (RR)	0.11552	0.29625	0.73719

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA221X1H7H	A0->Y (FF)	0.13904	0.29941	0.68493
	A1->Y (FF)	0.14278	0.30521	0.69226
	B0->Y (FF)	0.12231	0.27910	0.65456
	B1->Y (FF)	0.12578	0.28483	0.66273
	C0->Y (FF)	0.06761	0.21708	0.57590

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA221X1H7H	A0	0.00046	0.00053	0.00060
	A0	0.00009	0.00010	0.00010
	A0	-0.00011	-0.00011	-0.00011
	A0	0.00214	0.00221	0.00227
	A1	0.00046	0.00052	0.00058
	A1	0.00014	0.00014	0.00015
	A1	-0.00011	-0.00011	-0.00011
	A1	0.00229	0.00235	0.00241
	B0	0.00047	0.00053	0.00059
	B0	0.00009	0.00010	0.00010
	B0	-0.00005	-0.00005	-0.00004
	B0	0.00177	0.00184	0.00189
	B1	0.00047	0.00053	0.00058
	B1	0.00014	0.00014	0.00014
	B1	-0.00005	-0.00004	-0.00004
	B1	0.00188	0.00193	0.00198
	C0	0.00045	0.00051	0.00058
	C0	0.00014	0.00014	0.00014
	C0	0.00001	0.00001	0.00003
	C0	0.00163	0.00169	0.00176

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA221X1H7H	A0	0.00222	0.00228	0.00236
	A0	-0.00005	-0.00005	-0.00005
	A0	0.00011	0.00011	0.00011
	A0	0.00065	0.00071	0.00078
	A1	0.00236	0.00243	0.00250
	A1	-0.00010	-0.00010	-0.00009
	A1	0.00011	0.00011	0.00012
	A1	0.00062	0.00069	0.00076
	B0	0.00190	0.00196	0.00203
	B0	-0.00005	-0.00005	-0.00004
	B0	0.00004	0.00005	0.00006
	B0	0.00063	0.00069	0.00075
	B1	0.00204	0.00210	0.00216
	B1	-0.00010	-0.00010	-0.00010
	B1	0.00004	0.00005	0.00005
	B1	0.00064	0.00071	0.00077
	C0	0.00177	0.00184	0.00190
	C0	-0.00005	-0.00005	-0.00004
	C0	-0.00001	-0.00001	0.00001
	C0	0.00055	0.00062	0.00068

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X1H7H	**(A1 * B0 * C0 * Y)**	-0.00000	-0.00000	0.00000
	(A1 * B0 * C0 * Y)	-0.00003	-0.00003	-0.00002
	(A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * Y)	0.00034	0.00034	0.00035
	(A1 * B0 * !C0 * !Y)	-0.00016	-0.00015	-0.00014
	(A1 * B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00001
	(A1 * B0 * !C0 * !Y)	0.00024	0.00024	0.00024
	(A1 * !B0 * B1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * B1 * C0 * Y)	-0.00003	-0.00003	-0.00002
	(A1 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00001
	(A1 * !B0 * B1 * C0 * Y)	0.00034	0.00034	0.00035
	(A1 * !B0 * B1 * !C0 * !Y)	-0.00016	-0.00015	-0.00013
	(A1 * !B0 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * B1 * !C0 * !Y)	0.00023	0.00024	0.00024
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00015	-0.00015	-0.00013
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * C0 * !Y)	0.00024	0.00024	0.00024
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00016	-0.00015	-0.00013
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00024	0.00024	0.00024
	(!A1 * B0 * !C0 * !Y)	-0.00018	-0.00017	-0.00017
	(!A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !C0 * !Y)	0.00019	0.00019	0.00020
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00018	-0.00017	-0.00017
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00019	0.00019	0.00020
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00018	-0.00017	-0.00017
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00019	0.00020	0.00020
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00018	-0.00017	-0.00017
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00019	0.00020	0.00020

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X1H7H	**(A1 * B0 * C0 * Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * Y)	0.00003	0.00003	0.00003
	(A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * Y)	-0.00035	-0.00034	-0.00034
	(A1 * B0 * !C0 * !Y)	0.00015	0.00015	0.00016
	(A1 * B0 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !C0 * !Y)	-0.00024	-0.00024	-0.00024
	(A1 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * C0 * Y)	0.00003	0.00003	0.00004
	(A1 * !B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * B1 * C0 * Y)	-0.00034	-0.00034	-0.00034
	(A1 * !B0 * B1 * !C0 * !Y)	0.00015	0.00015	0.00016
	(A1 * !B0 * B1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00000	0.00000
	(A1 * !B0 * B1 * !C0 * !Y)	-0.00024	-0.00024	-0.00023
	(A1 * !B0 * !B1 * C0 * !Y)	0.00015	0.00015	0.00015
	(A1 * !B0 * !B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00024	-0.00024	-0.00023
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00015	0.00015	0.00016
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00024	-0.00024	-0.00024
	(!A1 * B0 * !C0 * !Y)	0.00017	0.00018	0.00018
	(!A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !C0 * !Y)	-0.00019	-0.00018	-0.00016
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00017	0.00017	0.00018
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00019	-0.00018	-0.00016
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00017	0.00017	0.00018
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00020	-0.00018	-0.00016
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00017	0.00017	0.00018
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00020	-0.00018	-0.00016

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X1H7H	**(A0 * B0 * C0 * Y)**	-0.00009	-0.00008	-0.00007
	(A0 * B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * Y)	0.00033	0.00033	0.00034
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	-0.00015	-0.00014	-0.00013
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	0.00027	0.00027	0.00028
	(A0 * !B0 * B1 * C0 * Y)	-0.00009	-0.00008	-0.00007
	(A0 * !B0 * B1 * C0 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * B1 * C0 * Y)	0.00033	0.00033	0.00034
	(A0 * !B0 * !B1 * !Y)	-0.00015	-0.00014	-0.00013
	(A0 * !B0 * !B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00001
	(A0 * !B0 * !B1 * !Y)	0.00027	0.00027	0.00027
	(!A0 * B0 * !C0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * !C0 * !Y)	0.00001	0.00002	0.00003
	(!A0 * B0 * !C0 * !Y)	0.00022	0.00022	0.00023
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00000	0.00001	0.00002
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00022	0.00023	0.00023
	(!A0 * !B0 * !B1 * C0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !B0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !B0 * !B1 * C0 * !Y)	0.00022	0.00023	0.00024
	(!A0 * !B0 * !B1 * !C0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !B0 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * !C0 * !Y)	0.00023	0.00023	0.00023

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X1H7H	**(A0 * B0 * C0 * Y)**	0.00009	0.00009	0.00009
	(A0 * B0 * C0 * Y)	0.00002	0.00002	0.00002
	(A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * Y)	-0.00033	-0.00033	-0.00033
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	0.00015	0.00015	0.00015
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	-0.00027	-0.00027	-0.00027
	(A0 * !B0 * B1 * C0 * Y)	0.00009	0.00009	0.00009
	(A0 * !B0 * B1 * C0 * Y)	0.00001	0.00002	0.00002
	(A0 * !B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * B1 * C0 * Y)	-0.00033	-0.00033	-0.00033
	(A0 * !B0 * !B1 * !Y)	0.00014	0.00015	0.00015
	(A0 * !B0 * !B1 * !Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * !B1 * !Y)	-0.00001	-0.00000	0.00000
	(A0 * !B0 * !B1 * !Y)	-0.00027	-0.00027	-0.00026
	(!A0 * B0 * !C0 * !Y)	0.00017	0.00017	0.00017
	(!A0 * B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * B0 * !C0 * !Y)	-0.00023	-0.00021	-0.00019
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00017	0.00017	0.00017
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00002	-0.00001	-0.00000
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00023	-0.00021	-0.00019
	(!A0 * !B0 * !B1 * C0 * !Y)	0.00017	0.00017	0.00017
	(!A0 * !B0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * C0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * C0 * !Y)	-0.00023	-0.00022	-0.00020
	(!A0 * !B0 * !B1 * !C0 * !Y)	0.00017	0.00017	0.00017
	(!A0 * !B0 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * !C0 * !Y)	-0.00023	-0.00022	-0.00020

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X1H7H	**(A0 * B1 * C0 * Y)**	-0.00000	0.00000	0.00000
	(A0 * B1 * C0 * Y)	-0.00004	-0.00003	-0.00003
	(A0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B1 * C0 * Y)	0.00033	0.00033	0.00034
	(A0 * B1 * !C0 * !Y)	-0.00012	-0.00012	-0.00010
	(A0 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00001
	(A0 * B1 * !C0 * !Y)	0.00026	0.00026	0.00026
	(A0 * !B1 * !C0 * !Y)	-0.00015	-0.00015	-0.00014
	(A0 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B1 * !C0 * !Y)	0.00023	0.00023	0.00023
	(!A0 * A1 * B1 * C0 * Y)	-0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * Y)	0.00033	0.00034	0.00034
	(!A0 * A1 * B1 * !C0 * !Y)	-0.00012	-0.00012	-0.00011
	(!A0 * A1 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * B1 * !C0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * B1 * !C0 * !Y)	0.00026	0.00026	0.00026
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00015	-0.00015	-0.00014
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00022	0.00023	0.00023
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00013	-0.00012	-0.00011
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * C0 * !Y)	0.00003	0.00004	0.00004
	(!A0 * !A1 * B1 * C0 * !Y)	0.00007	0.00007	0.00008
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00013	-0.00012	-0.00011
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00004	0.00005	0.00005
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * !B1 * C0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !A1 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B1 * C0 * !Y)	0.00004	0.00004	0.00005
	(!A0 * !A1 * !B1 * C0 * !Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * !B1 * !C0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !A1 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B1 * !C0 * !Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !B1 * !C0 * !Y)	0.00007	0.00007	0.00008

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X1H7H	**(A0 * B1 * C0 * Y)**	-0.00000	-0.00000	0.00000
	(A0 * B1 * C0 * Y)	0.00003	0.00003	0.00004
	(A0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * C0 * Y)	-0.00034	-0.00033	-0.00033
	(A0 * B1 * !C0 * !Y)	0.00012	0.00012	0.00012
	(A0 * B1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * B1 * !C0 * !Y)	-0.00026	-0.00026	-0.00026
	(A0 * !B1 * !C0 * !Y)	0.00014	0.00015	0.00015
	(A0 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B1 * !C0 * !Y)	-0.00023	-0.00022	-0.00019
	(!A0 * A1 * B1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * B1 * C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B1 * C0 * Y)	-0.00034	-0.00033	-0.00033
	(!A0 * A1 * B1 * !C0 * !Y)	0.00012	0.00012	0.00012
	(!A0 * A1 * B1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * B1 * !C0 * !Y)	-0.00001	-0.00000	-0.00000
	(!A0 * A1 * B1 * !C0 * !Y)	-0.00026	-0.00026	-0.00026
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00015	0.00015	0.00015
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00023	-0.00021	-0.00019
	(!A0 * !A1 * B1 * C0 * !Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00004	-0.00004	-0.00003
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * !B1 * C0 * !Y)	0.00015	0.00015	0.00015
	(!A0 * !A1 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B1 * C0 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !B1 * C0 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * !B1 * !C0 * !Y)	0.00015	0.00015	0.00015
	(!A0 * !A1 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B1 * !C0 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !B1 * !C0 * !Y)	-0.00008	-0.00007	-0.00007

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X1H7H	**(A0 * B0 * C0 * Y)**	-0.00009	-0.00008	-0.00007
	(A0 * B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * Y)	0.00028	0.00028	0.00029
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	-0.00011	-0.00011	-0.00010
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00001
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	0.00025	0.00025	0.00025
	(A0 * !B0 * !C0 * !Y)	-0.00014	-0.00014	-0.00013
	(A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !C0 * !Y)	0.00022	0.00022	0.00023
	(!A0 * A1 * B0 * C0 * Y)	-0.00009	-0.00008	-0.00007
	(!A0 * A1 * B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * C0 * Y)	0.00028	0.00028	0.00028
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00014	-0.00014	-0.00013
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00022	0.00022	0.00022
	(!A0 * !A1 * B0 * C0 * !Y)	-0.00012	-0.00011	-0.00010
	(!A0 * !A1 * B0 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * C0 * !Y)	0.00003	0.00003	0.00004
	(!A0 * !A1 * B0 * C0 * !Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * B0 * !C0 * !Y)	-0.00012	-0.00011	-0.00010
	(!A0 * !A1 * B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !C0 * !Y)	0.00004	0.00004	0.00005
	(!A0 * !A1 * B0 * !C0 * !Y)	0.00007	0.00008	0.00008
	(!A0 * !A1 * !B0 * C0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !A1 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * C0 * !Y)	0.00003	0.00004	0.00004
	(!A0 * !A1 * !B0 * C0 * !Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * !B0 * !C0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * !C0 * !Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !B0 * !C0 * !Y)	0.00008	0.00008	0.00009

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X1H7H	**(A0 * B0 * C0 * Y)**	0.00009	0.00009	0.00009
	(A0 * B0 * C0 * Y)	0.00002	0.00002	0.00002
	(A0 * B0 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * C0 * Y)	-0.00028	-0.00028	-0.00028
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	0.00011	0.00011	0.00011
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	-0.00025	-0.00025	-0.00025
	(A0 * !B0 * !C0 * !Y)	0.00014	0.00014	0.00014
	(A0 * !B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !C0 * !Y)	-0.00022	-0.00021	-0.00019
	(!A0 * A1 * B0 * C0 * Y)	0.00009	0.00009	0.00009
	(!A0 * A1 * B0 * C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * B0 * C0 * Y)	-0.00000	-0.00000	0.00001
	(!A0 * A1 * B0 * C0 * Y)	-0.00028	-0.00028	-0.00028
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00014	0.00014	0.00014
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00022	-0.00021	-0.00019
	(!A0 * !A1 * B0 * C0 * !Y)	0.00012	0.00012	0.00012
	(!A0 * !A1 * B0 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B0 * C0 * !Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * B0 * !C0 * !Y)	0.00012	0.00012	0.00012
	(!A0 * !A1 * B0 * !C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * !C0 * !Y)	-0.00005	-0.00004	-0.00004
	(!A0 * !A1 * B0 * !C0 * !Y)	-0.00008	-0.00008	-0.00007
	(!A0 * !A1 * !B0 * C0 * !Y)	0.00014	0.00014	0.00014
	(!A0 * !A1 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * C0 * !Y)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * !B0 * C0 * !Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * !B0 * !C0 * !Y)	0.00014	0.00014	0.00014
	(!A0 * !A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * !C0 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !B0 * !C0 * !Y)	-0.00009	-0.00008	-0.00008

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA221X1H7H	(A0 * !B0 * !B1 * !Y)	-0.00025	-0.00025	-0.00025
	(A0 * !B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * !Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * !B1 * !Y)	0.00009	0.00010	0.00010
	(!A0 * !B0 * !B1 * !Y)	-0.00025	-0.00025	-0.00025
	(!A0 * !B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * !B1 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !B0 * !B1 * !Y)	0.00009	0.00010	0.00010
	(!A0 * !A1 * B0 * !Y)	-0.00025	-0.00025	-0.00025
	(!A0 * !A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * !Y)	0.00008	0.00009	0.00009
	(!A0 * !A1 * !B0 * B1 * !Y)	-0.00025	-0.00025	-0.00025
	(!A0 * !A1 * !B0 * B1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !B0 * B1 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * !B0 * B1 * !Y)	0.00008	0.00009	0.00009

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA221X1H7H	(A0 * !B0 * !B1 * !Y)	0.00025	0.00025	0.00025
	(A0 * !B0 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * !B1 * !Y)	-0.00010	-0.00010	-0.00009
	(!A0 * !B0 * !B1 * !Y)	0.00025	0.00025	0.00025
	(!A0 * !B0 * !B1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * !B1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * !B1 * !Y)	-0.00010	-0.00010	-0.00009
	(!A0 * !A1 * B0 * !Y)	0.00025	0.00025	0.00025
	(!A0 * !A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !Y)	-0.00009	-0.00009	-0.00008
	(!A0 * !A1 * !B0 * B1 * !Y)	0.00025	0.00025	0.00025
	(!A0 * !A1 * !B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !B0 * B1 * !Y)	-0.00009	-0.00009	-0.00008

OA221X1P4H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

OA221 (Y = (A0 + A1) • (B0 + B1) • C0)

Truth Table

INPUT					OUTPUT
A0	A1	B0	B1	C0	Y
0	0	x	x	x	0
x	1	0	0	x	0
x	1	x	1	0	0
x	1	x	1	1	1
x	1	1	x	0	0
x	1	1	x	1	1
1	x	0	0	x	0
1	x	x	1	0	0
1	x	x	1	1	1
1	x	1	x	0	0
1	x	1	x	1	1

Footprint

Cell Name	Area
OA221X1P4H7H	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	A1	B0	B1	C0	Y
OA221X1P4H7H	0.00090	0.00088	0.00085	0.00081	0.00095	0.04704

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OA221X1P4H7H	0.00000	0.02057	0.03822

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA221X1P4H7H	A0->Y (RR)	0.13198	0.31616	0.76197
	A1->Y (RR)	0.13759	0.32295	0.77162
	B0->Y (RR)	0.12273	0.30881	0.76135
	B1->Y (RR)	0.12753	0.31525	0.77233
	C0->Y (RR)	0.11546	0.29782	0.74135

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA221X1P4H7H	A0->Y (FF)	0.13935	0.30236	0.69223
	A1->Y (FF)	0.14321	0.30825	0.69956
	B0->Y (FF)	0.12265	0.28206	0.66220
	B1->Y (FF)	0.12610	0.28776	0.66992
	C0->Y (FF)	0.06726	0.21897	0.58254

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA221X1P4H7H	A0	0.00049	0.00056	0.00063
	A0	0.00008	0.00009	0.00009
	A0	-0.00010	-0.00010	-0.00010
	A0	0.00216	0.00224	0.00230
	A1	0.00049	0.00056	0.00062
	A1	0.00013	0.00014	0.00014
	A1	-0.00011	-0.00010	-0.00010
	A1	0.00231	0.00238	0.00244
	B0	0.00050	0.00056	0.00063
	B0	0.00009	0.00009	0.00010
	B0	-0.00005	-0.00004	-0.00003
	B0	0.00179	0.00186	0.00192
	B1	0.00050	0.00056	0.00062
	B1	0.00014	0.00014	0.00014
	B1	-0.00004	-0.00004	-0.00003
	B1	0.00190	0.00195	0.00201
	C0	0.00048	0.00054	0.00062
	C0	0.00014	0.00014	0.00014
	C0	0.00001	0.00001	0.00003
	C0	0.00165	0.00171	0.00179

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA221X1P4H7H	A0	0.00225	0.00232	0.00239
	A0	-0.00004	-0.00004	-0.00003
	A0	0.00011	0.00011	0.00011
	A0	0.00069	0.00076	0.00083
	A1	0.00239	0.00246	0.00254
	A1	-0.00009	-0.00009	-0.00009
	A1	0.00011	0.00011	0.00011
	A1	0.00066	0.00073	0.00080
	B0	0.00193	0.00200	0.00207
	B0	-0.00004	-0.00004	-0.00004
	B0	0.00003	0.00004	0.00005
	B0	0.00067	0.00073	0.00080
	B1	0.00207	0.00214	0.00220
	B1	-0.00009	-0.00009	-0.00007
	B1	0.00004	0.00004	0.00005
	B1	0.00068	0.00075	0.00082
	C0	0.00180	0.00188	0.00194
	C0	-0.00005	-0.00004	-0.00004
	C0	-0.00001	-0.00001	0.00001
	C0	0.00059	0.00066	0.00073

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X1P4H7H	**(A1 * B0 * C0 * Y)**	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * Y)	-0.00003	-0.00003	-0.00002
	(A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * Y)	0.00034	0.00034	0.00035
	(A1 * B0 * !C0 * !Y)	-0.00015	-0.00015	-0.00014
	(A1 * B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00001
	(A1 * B0 * !C0 * !Y)	0.00024	0.00024	0.00024
	(A1 * !B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * B1 * C0 * Y)	-0.00003	-0.00003	-0.00002
	(A1 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00001
	(A1 * !B0 * B1 * C0 * Y)	0.00034	0.00034	0.00035
	(A1 * !B0 * B1 * !C0 * !Y)	-0.00016	-0.00015	-0.00014
	(A1 * !B0 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00001	0.00002
	(A1 * !B0 * B1 * !C0 * !Y)	0.00023	0.00024	0.00024
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00015	-0.00015	-0.00014
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * C0 * !Y)	0.00024	0.00024	0.00024
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00016	-0.00015	-0.00014
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00024	0.00024	0.00024
	(!A1 * B0 * !C0 * !Y)	-0.00018	-0.00017	-0.00017
	(!A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !C0 * !Y)	0.00019	0.00019	0.00019
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00018	-0.00018	-0.00017
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00019	0.00019	0.00020
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00018	-0.00017	-0.00017
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00000	0.00001	0.00002
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00019	0.00020	0.00021
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00018	-0.00017	-0.00017
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00019	0.00020	0.00020

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X1P4H7H	**(A1 * B0 * C0 * Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * Y)	0.00003	0.00003	0.00003
	(A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * Y)	-0.00035	-0.00034	-0.00034
	(A1 * B0 * !C0 * !Y)	0.00015	0.00015	0.00015
	(A1 * B0 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * !Y)	-0.00024	-0.00024	-0.00023
	(A1 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * C0 * Y)	0.00002	0.00003	0.00003
	(A1 * !B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * B1 * C0 * Y)	-0.00035	-0.00034	-0.00034
	(A1 * !B0 * B1 * !C0 * !Y)	0.00015	0.00015	0.00016
	(A1 * !B0 * B1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00000	-0.00000
	(A1 * !B0 * B1 * !C0 * !Y)	-0.00024	-0.00024	-0.00023
	(A1 * !B0 * !B1 * C0 * !Y)	0.00015	0.00015	0.00015
	(A1 * !B0 * !B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00024	-0.00024	-0.00023
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00015	0.00015	0.00016
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00024	-0.00024	-0.00023
	(!A1 * B0 * !C0 * !Y)	0.00017	0.00017	0.00018
	(!A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !C0 * !Y)	-0.00019	-0.00018	-0.00016
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00017	0.00018	0.00018
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00019	-0.00018	-0.00016
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00017	0.00017	0.00018
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00002	-0.00001	-0.00000
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00020	-0.00018	-0.00016
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00017	0.00017	0.00018
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00020	-0.00018	-0.00016

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X1P4H7H	**(A0 * B0 * C0 * Y)**	-0.00009	-0.00008	-0.00007
	(A0 * B0 * C0 * Y)	-0.00003	-0.00002	-0.00002
	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * Y)	0.00034	0.00034	0.00034
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	-0.00015	-0.00014	-0.00013
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00001
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	0.00027	0.00027	0.00028
	(A0 * !B0 * B1 * C0 * Y)	-0.00009	-0.00008	-0.00007
	(A0 * !B0 * B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * B1 * C0 * Y)	0.00033	0.00034	0.00034
	(A0 * !B0 * !B1 * !Y)	-0.00015	-0.00014	-0.00013
	(A0 * !B0 * !B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !B1 * !Y)	0.00027	0.00028	0.00028
	(!A0 * B0 * !C0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !C0 * !Y)	0.00000	0.00001	0.00002
	(!A0 * B0 * !C0 * !Y)	0.00023	0.00023	0.00023
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00000	0.00001	0.00002
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00023	0.00023	0.00023
	(!A0 * !B0 * !B1 * C0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !B0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !B0 * !B1 * C0 * !Y)	0.00023	0.00023	0.00024
	(!A0 * !B0 * !B1 * !C0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !B0 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * !C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !B0 * !B1 * !C0 * !Y)	0.00022	0.00023	0.00023

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X1P4H7H	**(A0 * B0 * C0 * Y)**	0.00008	0.00009	0.00009
	(A0 * B0 * C0 * Y)	0.00002	0.00002	0.00003
	(A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * Y)	-0.00034	-0.00034	-0.00033
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	0.00015	0.00015	0.00015
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	-0.00028	-0.00027	-0.00027
	(A0 * !B0 * B1 * C0 * Y)	0.00009	0.00009	0.00009
	(A0 * !B0 * B1 * C0 * Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * B1 * C0 * Y)	-0.00034	-0.00034	-0.00033
	(A0 * !B0 * !B1 * !Y)	0.00015	0.00015	0.00015
	(A0 * !B0 * !B1 * !Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * !B1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !B0 * !B1 * !Y)	-0.00028	-0.00027	-0.00027
	(!A0 * B0 * !C0 * !Y)	0.00017	0.00017	0.00017
	(!A0 * B0 * !C0 * !Y)	0.00001	0.00001	0.00002
	(!A0 * B0 * !C0 * !Y)	-0.00002	-0.00001	-0.00000
	(!A0 * B0 * !C0 * !Y)	-0.00023	-0.00021	-0.00018
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00017	0.00017	0.00017
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00002	-0.00001	-0.00000
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00023	-0.00022	-0.00020
	(!A0 * !B0 * !B1 * C0 * !Y)	0.00017	0.00017	0.00017
	(!A0 * !B0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * C0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * C0 * !Y)	-0.00023	-0.00022	-0.00020
	(!A0 * !B0 * !B1 * !C0 * !Y)	0.00017	0.00017	0.00017
	(!A0 * !B0 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B0 * !B1 * !C0 * !Y)	-0.00023	-0.00022	-0.00020

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X1P4H7H	**(A0 * B1 * C0 * Y)**	-0.00000	-0.00000	0.00000
	(A0 * B1 * C0 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * B1 * C0 * Y)	0.00000	0.00000	0.00001
	(A0 * B1 * C0 * Y)	0.00033	0.00034	0.00034
	(A0 * B1 * !C0 * !Y)	-0.00012	-0.00012	-0.00010
	(A0 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B1 * !C0 * !Y)	0.00026	0.00026	0.00026
	(A0 * !B1 * !C0 * !Y)	-0.00015	-0.00015	-0.00014
	(A0 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00002
	(A0 * !B1 * !C0 * !Y)	0.00022	0.00023	0.00023
	(!A0 * A1 * B1 * C0 * Y)	-0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * A1 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * Y)	0.00033	0.00033	0.00034
	(!A0 * A1 * B1 * !C0 * !Y)	-0.00012	-0.00012	-0.00010
	(!A0 * A1 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * !C0 * !Y)	0.00026	0.00026	0.00026
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00015	-0.00015	-0.00014
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00022	0.00023	0.00023
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00013	-0.00012	-0.00011
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * C0 * !Y)	0.00003	0.00004	0.00004
	(!A0 * !A1 * B1 * C0 * !Y)	0.00007	0.00007	0.00008
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00013	-0.00012	-0.00011
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00004	0.00005	0.00005
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * !B1 * C0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !A1 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B1 * C0 * !Y)	0.00003	0.00004	0.00004
	(!A0 * !A1 * !B1 * C0 * !Y)	0.00007	0.00007	0.00008
	(!A0 * !A1 * !B1 * !C0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !A1 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B1 * !C0 * !Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !B1 * !C0 * !Y)	0.00007	0.00007	0.00008

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X1P4H7H	**(A0 * B1 * C0 * Y)**	0.00000	0.00000	0.00000
	(A0 * B1 * C0 * Y)	0.00003	0.00003	0.00003
	(A0 * B1 * C0 * Y)	-0.00001	-0.00000	-0.00000
	(A0 * B1 * C0 * Y)	-0.00034	-0.00033	-0.00033
	(A0 * B1 * !C0 * !Y)	0.00012	0.00012	0.00012
	(A0 * B1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * B1 * !C0 * !Y)	-0.00026	-0.00026	-0.00026
	(A0 * !B1 * !C0 * !Y)	0.00014	0.00015	0.00015
	(A0 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B1 * !C0 * !Y)	-0.00002	-0.00001	-0.00001
	(A0 * !B1 * !C0 * !Y)	-0.00023	-0.00021	-0.00019
	(!A0 * A1 * B1 * C0 * Y)	-0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * Y)	0.00002	0.00003	0.00004
	(!A0 * A1 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B1 * C0 * Y)	-0.00034	-0.00033	-0.00033
	(!A0 * A1 * B1 * !C0 * !Y)	0.00012	0.00012	0.00012
	(!A0 * A1 * B1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B1 * !C0 * !Y)	-0.00026	-0.00026	-0.00026
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00014	0.00015	0.00015
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00023	-0.00021	-0.00019
	(!A0 * !A1 * B1 * C0 * !Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00004	-0.00004	-0.00003
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * !B1 * C0 * !Y)	0.00015	0.00015	0.00015
	(!A0 * !A1 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B1 * C0 * !Y)	-0.00004	-0.00004	-0.00003
	(!A0 * !A1 * !B1 * C0 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * !B1 * !C0 * !Y)	0.00015	0.00015	0.00015
	(!A0 * !A1 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B1 * !C0 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !B1 * !C0 * !Y)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X1P4H7H	**(A0 * B0 * C0 * Y)**	-0.00009	-0.00008	-0.00007
	(A0 * B0 * C0 * Y)	-0.00003	-0.00002	-0.00002
	(A0 * B0 * C0 * Y)	0.00000	0.00001	0.00001
	(A0 * B0 * C0 * Y)	0.00027	0.00028	0.00028
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	-0.00011	-0.00011	-0.00010
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00001
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	0.00025	0.00025	0.00025
	(A0 * !B0 * !C0 * !Y)	-0.00014	-0.00014	-0.00013
	(A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !C0 * !Y)	0.00022	0.00022	0.00022
	(!A0 * A1 * B0 * C0 * Y)	-0.00009	-0.00008	-0.00007
	(!A0 * A1 * B0 * C0 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * B0 * C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * B0 * C0 * Y)	0.00028	0.00028	0.00028
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00014	-0.00014	-0.00013
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00022	0.00022	0.00022
	(!A0 * !A1 * B0 * C0 * !Y)	-0.00012	-0.00011	-0.00010
	(!A0 * !A1 * B0 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * C0 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B0 * C0 * !Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * B0 * !C0 * !Y)	-0.00012	-0.00011	-0.00010
	(!A0 * !A1 * B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !C0 * !Y)	0.00004	0.00004	0.00005
	(!A0 * !A1 * B0 * !C0 * !Y)	0.00007	0.00008	0.00008
	(!A0 * !A1 * !B0 * C0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !A1 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * C0 * !Y)	0.00003	0.00004	0.00004
	(!A0 * !A1 * !B0 * C0 * !Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * !B0 * !C0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * !C0 * !Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !B0 * !C0 * !Y)	0.00008	0.00008	0.00009

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X1P4H7H	**(A0 * B0 * C0 * Y)**	0.00009	0.00009	0.00009
	(A0 * B0 * C0 * Y)	0.00002	0.00002	0.00003
	(A0 * B0 * C0 * Y)	-0.00001	-0.00000	-0.00000
	(A0 * B0 * C0 * Y)	-0.00028	-0.00028	-0.00027
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	0.00011	0.00011	0.00011
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	-0.00025	-0.00025	-0.00025
	(A0 * !B0 * !C0 * !Y)	0.00014	0.00014	0.00014
	(A0 * !B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !C0 * !Y)	-0.00022	-0.00021	-0.00019
	(!A0 * A1 * B0 * C0 * Y)	0.00009	0.00009	0.00009
	(!A0 * A1 * B0 * C0 * Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * B0 * C0 * Y)	-0.00028	-0.00028	-0.00027
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00014	0.00014	0.00014
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00022	-0.00021	-0.00019
	(!A0 * !A1 * B0 * C0 * !Y)	0.00012	0.00012	0.00012
	(!A0 * !A1 * B0 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B0 * C0 * !Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * B0 * !C0 * !Y)	0.00012	0.00012	0.00012
	(!A0 * !A1 * B0 * !C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * !C0 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * B0 * !C0 * !Y)	-0.00008	-0.00008	-0.00007
	(!A0 * !A1 * !B0 * C0 * !Y)	0.00014	0.00014	0.00014
	(!A0 * !A1 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * C0 * !Y)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * !B0 * C0 * !Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * !B0 * !C0 * !Y)	0.00014	0.00014	0.00014
	(!A0 * !A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * !C0 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !B0 * !C0 * !Y)	-0.00008	-0.00008	-0.00008

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA221X1P4H7H	(A0 * !B0 * !B1 * !Y)	-0.00025	-0.00025	-0.00025
	(A0 * !B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * !Y)	0.00002	0.00002	0.00003
	(A0 * !B0 * !B1 * !Y)	0.00009	0.00010	0.00010
	(!A0 * !B0 * !B1 * !Y)	-0.00025	-0.00025	-0.00025
	(!A0 * !B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * !B1 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !B0 * !B1 * !Y)	0.00009	0.00010	0.00010
	(!A0 * !A1 * B0 * !Y)	-0.00025	-0.00025	-0.00025
	(!A0 * !A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !A1 * B0 * !Y)	0.00008	0.00009	0.00009
	(!A0 * !A1 * !B0 * B1 * !Y)	-0.00025	-0.00025	-0.00025
	(!A0 * !A1 * !B0 * B1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !B0 * B1 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * !B0 * B1 * !Y)	0.00008	0.00009	0.00009

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA221X1P4H7H	(A0 * !B0 * !B1 * !Y)	0.00025	0.00025	0.00025
	(A0 * !B0 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * !B1 * !Y)	-0.00010	-0.00010	-0.00009
	(!A0 * !B0 * !B1 * !Y)	0.00025	0.00025	0.00025
	(!A0 * !B0 * !B1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * !B1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * !B1 * !Y)	-0.00010	-0.00010	-0.00009
	(!A0 * !A1 * B0 * !Y)	0.00025	0.00025	0.00025
	(!A0 * !A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !Y)	-0.00009	-0.00009	-0.00008
	(!A0 * !A1 * !B0 * B1 * !Y)	0.00025	0.00025	0.00025
	(!A0 * !A1 * !B0 * B1 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !A1 * !B0 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !B0 * B1 * !Y)	-0.00009	-0.00009	-0.00008

OA221X2H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

OA221 (Y = (A0 + A1) • (B0 + B1) • C0)

Truth Table

INPUT					OUTPUT
A0	A1	B0	B1	C0	Y
0	0	x	x	x	0
x	1	0	0	x	0
x	1	x	1	0	0
x	1	x	1	1	1
x	1	1	x	0	0
x	1	1	x	1	1
1	x	0	0	x	0
1	x	x	1	0	0
1	x	x	1	1	1
1	x	1	x	0	0
1	x	1	x	1	1

Footprint

Cell Name	Area
OA221X2H7H	3.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	A1	B0	B1	C0	Y
OA221X2H7H	0.00090	0.00090	0.00085	0.00081	0.00095	0.05460

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OA221X2H7H	0.00000	0.02386	0.04771

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA221X2H7H	A0->Y (RR)	0.13383	0.31954	0.76731
	A1->Y (RR)	0.13971	0.32654	0.77704
	B0->Y (RR)	0.12469	0.31250	0.76782
	B1->Y (RR)	0.12955	0.31888	0.77834
	C0->Y (RR)	0.11744	0.30168	0.74813

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA221X2H7H	A0->Y (FF)	0.14102	0.30520	0.69542
	A1->Y (FF)	0.14517	0.31128	0.70290
	B0->Y (FF)	0.12444	0.28510	0.66573
	B1->Y (FF)	0.12791	0.29072	0.67305
	C0->Y (FF)	0.06771	0.22018	0.58433

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA221X2H7H	A0	0.00056	0.00064	0.00071
	A0	0.00008	0.00008	0.00009
	A0	-0.00010	-0.00010	-0.00010
	A0	0.00221	0.00229	0.00236
	A1	0.00056	0.00063	0.00070
	A1	0.00013	0.00013	0.00013
	A1	-0.00010	-0.00010	-0.00010
	A1	0.00237	0.00244	0.00251
	B0	0.00057	0.00064	0.00071
	B0	0.00008	0.00008	0.00009
	B0	-0.00004	-0.00003	-0.00002
	B0	0.00185	0.00192	0.00198
	B1	0.00057	0.00063	0.00069
	B1	0.00011	0.00013	0.00013
	B1	-0.00004	-0.00003	-0.00002
	B1	0.00195	0.00201	0.00207
	C0	0.00055	0.00061	0.00070
	C0	0.00013	0.00013	0.00013
	C0	0.00002	0.00002	0.00003
	C0	0.00170	0.00177	0.00185

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA221X2H7H	A0	0.00231	0.00238	0.00246
	A0	-0.00004	-0.00003	-0.00002
	A0	0.00010	0.00010	0.00010
	A0	0.00077	0.00084	0.00092
	A1	0.00245	0.00253	0.00261
	A1	-0.00008	-0.00008	-0.00008
	A1	0.00010	0.00010	0.00010
	A1	0.00073	0.00080	0.00088
	B0	0.00199	0.00206	0.00214
	B0	-0.00004	-0.00003	-0.00003
	B0	0.00002	0.00003	0.00004
	B0	0.00075	0.00081	0.00089
	B1	0.00213	0.00220	0.00227
	B1	-0.00008	-0.00008	-0.00007
	B1	0.00002	0.00003	0.00005
	B1	0.00076	0.00083	0.00090
	C0	0.00186	0.00194	0.00201
	C0	-0.00004	-0.00004	-0.00003
	C0	-0.00002	-0.00002	0.00000
	C0	0.00066	0.00075	0.00081

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X2H7H	**(A1 * B0 * C0 * Y)**	-0.00000	0.00000	0.00000
	(A1 * B0 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * Y)	0.00034	0.00034	0.00034
	(A1 * B0 * !C0 * !Y)	-0.00015	-0.00015	-0.00013
	(A1 * B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00001
	(A1 * B0 * !C0 * !Y)	0.00024	0.00024	0.00024
	(A1 * !B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * B1 * C0 * Y)	-0.00003	-0.00003	-0.00002
	(A1 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00001
	(A1 * !B0 * B1 * C0 * Y)	0.00034	0.00034	0.00034
	(A1 * !B0 * B1 * !C0 * !Y)	-0.00015	-0.00015	-0.00013
	(A1 * !B0 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * B1 * !C0 * !Y)	0.00023	0.00024	0.00024
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00015	-0.00015	-0.00013
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00000	0.00000	0.00001
	(A1 * !B0 * !B1 * C0 * !Y)	0.00024	0.00024	0.00024
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00015	-0.00015	-0.00013
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00024	0.00024	0.00024
	(!A1 * B0 * !C0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !C0 * !Y)	0.00001	0.00002	0.00003
	(!A1 * B0 * !C0 * !Y)	0.00018	0.00019	0.00019
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00019	0.00019	0.00020
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00019	0.00019	0.00020
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00019	0.00020	0.00020

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X2H7H	**(A1 * B0 * C0 * Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * Y)	0.00003	0.00003	0.00003
	(A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * Y)	-0.00034	-0.00034	-0.00034
	(A1 * B0 * !C0 * !Y)	0.00015	0.00015	0.00015
	(A1 * B0 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !C0 * !Y)	-0.00001	-0.00000	-0.00000
	(A1 * B0 * !C0 * !Y)	-0.00024	-0.00024	-0.00023
	(A1 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * C0 * Y)	0.00002	0.00003	0.00003
	(A1 * !B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * B1 * C0 * Y)	-0.00034	-0.00034	-0.00034
	(A1 * !B0 * B1 * !C0 * !Y)	0.00015	0.00015	0.00015
	(A1 * !B0 * B1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00000	-0.00000
	(A1 * !B0 * B1 * !C0 * !Y)	-0.00024	-0.00024	-0.00023
	(A1 * !B0 * !B1 * C0 * !Y)	0.00015	0.00015	0.00015
	(A1 * !B0 * !B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00024	-0.00024	-0.00024
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00015	0.00015	0.00015
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00024	-0.00024	-0.00023
	(!A1 * B0 * !C0 * !Y)	0.00017	0.00017	0.00017
	(!A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * B0 * !C0 * !Y)	-0.00019	-0.00018	-0.00016
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00017	0.00017	0.00017
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00019	-0.00018	-0.00016
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00017	0.00017	0.00017
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00020	-0.00018	-0.00015
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00017	0.00017	0.00017
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00020	-0.00018	-0.00016

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X2H7H	**(A0 * B0 * C0 * Y)**	-0.00009	-0.00008	-0.00007
	(A0 * B0 * C0 * Y)	-0.00003	-0.00002	-0.00002
	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * Y)	0.00034	0.00035	0.00035
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	-0.00015	-0.00014	-0.00013
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	0.00028	0.00028	0.00029
	(A0 * !B0 * B1 * C0 * Y)	-0.00009	-0.00008	-0.00007
	(A0 * !B0 * B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * B1 * C0 * Y)	0.00034	0.00035	0.00035
	(A0 * !B0 * !B1 * !Y)	-0.00015	-0.00014	-0.00013
	(A0 * !B0 * !B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !B1 * !Y)	0.00028	0.00028	0.00029
	(!A0 * B0 * !C0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !C0 * !Y)	0.00001	0.00002	0.00003
	(!A0 * B0 * !C0 * !Y)	0.00023	0.00023	0.00024
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	0.00000
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00024	0.00024	0.00024
	(!A0 * !B0 * !B1 * C0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !B0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !B0 * !B1 * C0 * !Y)	0.00024	0.00024	0.00025
	(!A0 * !B0 * !B1 * !C0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !B0 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * !C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !B0 * !B1 * !C0 * !Y)	0.00023	0.00024	0.00024

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X2H7H	**(A0 * B0 * C0 * Y)**	0.00008	0.00009	0.00009
	(A0 * B0 * C0 * Y)	0.00002	0.00002	0.00003
	(A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * Y)	-0.00035	-0.00034	-0.00034
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	0.00015	0.00015	0.00015
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	-0.00028	-0.00028	-0.00028
	(A0 * !B0 * B1 * C0 * Y)	0.00008	0.00009	0.00009
	(A0 * !B0 * B1 * C0 * Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * B1 * C0 * Y)	-0.00035	-0.00034	-0.00034
	(A0 * !B0 * !B1 * !Y)	0.00015	0.00015	0.00015
	(A0 * !B0 * !B1 * !Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * !B1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !B0 * !B1 * !Y)	-0.00028	-0.00028	-0.00028
	(!A0 * B0 * !C0 * !Y)	0.00017	0.00017	0.00017
	(!A0 * B0 * !C0 * !Y)	0.00001	0.00001	0.00002
	(!A0 * B0 * !C0 * !Y)	-0.00003	-0.00002	-0.00001
	(!A0 * B0 * !C0 * !Y)	-0.00024	-0.00022	-0.00019
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00017	0.00017	0.00017
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00024	-0.00022	-0.00020
	(!A0 * !B0 * !B1 * C0 * !Y)	0.00017	0.00017	0.00017
	(!A0 * !B0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * C0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * C0 * !Y)	-0.00024	-0.00023	-0.00021
	(!A0 * !B0 * !B1 * !C0 * !Y)	0.00017	0.00017	0.00017
	(!A0 * !B0 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B0 * !B1 * !C0 * !Y)	-0.00024	-0.00023	-0.00021

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X2H7H	**(A0 * B1 * C0 * Y)**	-0.00000	0.00000	0.00000
	(A0 * B1 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * B1 * C0 * Y)	0.00000	0.00000	0.00001
	(A0 * B1 * C0 * Y)	0.00033	0.00034	0.00034
	(A0 * B1 * !C0 * !Y)	-0.00012	-0.00012	-0.00010
	(A0 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B1 * !C0 * !Y)	0.00026	0.00026	0.00026
	(A0 * !B1 * !C0 * !Y)	-0.00014	-0.00014	-0.00014
	(A0 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00002
	(A0 * !B1 * !C0 * !Y)	0.00022	0.00023	0.00023
	(!A0 * A1 * B1 * C0 * Y)	-0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * B1 * C0 * Y)	0.00000	0.00001	0.00002
	(!A0 * A1 * B1 * C0 * Y)	0.00032	0.00033	0.00033
	(!A0 * A1 * B1 * !C0 * !Y)	-0.00012	-0.00012	-0.00010
	(!A0 * A1 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * B1 * !C0 * !Y)	0.00026	0.00026	0.00026
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00015	-0.00014	-0.00014
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00023	0.00023	0.00023
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00013	-0.00012	-0.00011
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * C0 * !Y)	0.00003	0.00004	0.00004
	(!A0 * !A1 * B1 * C0 * !Y)	0.00007	0.00007	0.00008
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00013	-0.00012	-0.00011
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00004	0.00005	0.00005
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * !B1 * C0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !A1 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B1 * C0 * !Y)	0.00004	0.00004	0.00005
	(!A0 * !A1 * !B1 * C0 * !Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * !B1 * !C0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !A1 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B1 * !C0 * !Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !B1 * !C0 * !Y)	0.00007	0.00007	0.00008

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X2H7H	**(A0 * B1 * C0 * Y)**	-0.00000	0.00000	0.00000
	(A0 * B1 * C0 * Y)	0.00003	0.00003	0.00003
	(A0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * C0 * Y)	-0.00034	-0.00033	-0.00033
	(A0 * B1 * !C0 * !Y)	0.00012	0.00012	0.00012
	(A0 * B1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * B1 * !C0 * !Y)	-0.00026	-0.00026	-0.00026
	(A0 * !B1 * !C0 * !Y)	0.00014	0.00015	0.00015
	(A0 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B1 * !C0 * !Y)	-0.00002	-0.00001	-0.00001
	(A0 * !B1 * !C0 * !Y)	-0.00023	-0.00022	-0.00019
	(!A0 * A1 * B1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * B1 * C0 * Y)	0.00003	0.00003	0.00004
	(!A0 * A1 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B1 * C0 * Y)	-0.00033	-0.00033	-0.00032
	(!A0 * A1 * B1 * !C0 * !Y)	0.00012	0.00012	0.00012
	(!A0 * A1 * B1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * B1 * !C0 * !Y)	-0.00001	-0.00000	-0.00000
	(!A0 * A1 * B1 * !C0 * !Y)	-0.00026	-0.00026	-0.00026
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00014	0.00015	0.00015
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00023	-0.00021	-0.00019
	(!A0 * !A1 * B1 * C0 * !Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * !B1 * C0 * !Y)	0.00015	0.00015	0.00015
	(!A0 * !A1 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B1 * C0 * !Y)	-0.00005	-0.00004	-0.00003
	(!A0 * !A1 * !B1 * C0 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * !B1 * !C0 * !Y)	0.00015	0.00015	0.00015
	(!A0 * !A1 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B1 * !C0 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !B1 * !C0 * !Y)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X2H7H	**(A0 * B0 * C0 * Y)**	-0.00009	-0.00008	-0.00007
	(A0 * B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * Y)	0.00028	0.00028	0.00029
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	-0.00011	-0.00011	-0.00009
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00001
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	0.00024	0.00025	0.00025
	(A0 * !B0 * !C0 * !Y)	-0.00014	-0.00014	-0.00013
	(A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !C0 * !Y)	0.00022	0.00022	0.00022
	(!A0 * A1 * B0 * C0 * Y)	-0.00009	-0.00008	-0.00007
	(!A0 * A1 * B0 * C0 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * B0 * C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * B0 * C0 * Y)	0.00028	0.00028	0.00028
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00014	-0.00014	-0.00013
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00021	0.00022	0.00022
	(!A0 * !A1 * B0 * C0 * !Y)	-0.00012	-0.00011	-0.00010
	(!A0 * !A1 * B0 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * C0 * !Y)	0.00003	0.00003	0.00004
	(!A0 * !A1 * B0 * C0 * !Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * B0 * !C0 * !Y)	-0.00012	-0.00011	-0.00010
	(!A0 * !A1 * B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !C0 * !Y)	0.00004	0.00004	0.00005
	(!A0 * !A1 * B0 * !C0 * !Y)	0.00007	0.00008	0.00008
	(!A0 * !A1 * !B0 * C0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !A1 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * C0 * !Y)	0.00003	0.00004	0.00004
	(!A0 * !A1 * !B0 * C0 * !Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * !B0 * !C0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * !C0 * !Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !B0 * !C0 * !Y)	0.00008	0.00008	0.00009

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X2H7H	**(A0 * B0 * C0 * Y)**	0.00008	0.00009	0.00009
	(A0 * B0 * C0 * Y)	0.00002	0.00002	0.00003
	(A0 * B0 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * C0 * Y)	-0.00028	-0.00028	-0.00027
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	0.00011	0.00011	0.00011
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	-0.00001	-0.00000	-0.00000
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	-0.00025	-0.00025	-0.00024
	(A0 * !B0 * !C0 * !Y)	0.00014	0.00014	0.00014
	(A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !C0 * !Y)	-0.00022	-0.00021	-0.00018
	(!A0 * A1 * B0 * C0 * Y)	0.00009	0.00009	0.00009
	(!A0 * A1 * B0 * C0 * Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * C0 * Y)	-0.00028	-0.00028	-0.00027
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00014	0.00014	0.00014
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00022	-0.00021	-0.00019
	(!A0 * !A1 * B0 * C0 * !Y)	0.00012	0.00012	0.00012
	(!A0 * !A1 * B0 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B0 * C0 * !Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * B0 * !C0 * !Y)	0.00012	0.00012	0.00012
	(!A0 * !A1 * B0 * !C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * !C0 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * B0 * !C0 * !Y)	-0.00008	-0.00008	-0.00007
	(!A0 * !A1 * !B0 * C0 * !Y)	0.00014	0.00014	0.00014
	(!A0 * !A1 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * C0 * !Y)	-0.00004	-0.00004	-0.00003
	(!A0 * !A1 * !B0 * C0 * !Y)	-0.00008	-0.00008	-0.00007
	(!A0 * !A1 * !B0 * !C0 * !Y)	0.00014	0.00014	0.00014
	(!A0 * !A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * !C0 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !B0 * !C0 * !Y)	-0.00009	-0.00008	-0.00008

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA221X2H7H	(A0 * !B0 * !B1 * !Y)	-0.00025	-0.00025	-0.00025
	(A0 * !B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * !Y)	0.00002	0.00002	0.00003
	(A0 * !B0 * !B1 * !Y)	0.00009	0.00010	0.00010
	(!A0 * !B0 * !B1 * !Y)	-0.00025	-0.00025	-0.00025
	(!A0 * !B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * !B1 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !B0 * !B1 * !Y)	0.00009	0.00010	0.00010
	(!A0 * !A1 * B0 * !Y)	-0.00025	-0.00025	-0.00025
	(!A0 * !A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !A1 * B0 * !Y)	0.00008	0.00009	0.00009
	(!A0 * !A1 * !B0 * B1 * !Y)	-0.00025	-0.00025	-0.00025
	(!A0 * !A1 * !B0 * B1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !B0 * B1 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * !B0 * B1 * !Y)	0.00008	0.00009	0.00009

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA221X2H7H	(A0 * !B0 * !B1 * !Y)	0.00025	0.00025	0.00025
	(A0 * !B0 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * !B1 * !Y)	-0.00010	-0.00010	-0.00009
	(!A0 * !B0 * !B1 * !Y)	0.00025	0.00025	0.00025
	(!A0 * !B0 * !B1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * !B1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * !B1 * !Y)	-0.00010	-0.00010	-0.00009
	(!A0 * !A1 * B0 * !Y)	0.00025	0.00025	0.00025
	(!A0 * !A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !Y)	-0.00009	-0.00009	-0.00008
	(!A0 * !A1 * !B0 * B1 * !Y)	0.00025	0.00025	0.00025
	(!A0 * !A1 * !B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !B0 * B1 * !Y)	-0.00009	-0.00009	-0.00008

OA221X3H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

OA221 (Y = (A0 + A1) • (B0 + B1) • C0)

Truth Table

INPUT					OUTPUT
A0	A1	B0	B1	C0	Y
0	0	x	x	x	0
x	1	0	0	x	0
x	1	x	1	0	0
x	1	x	1	1	1
x	1	1	x	0	0
x	1	1	x	1	1
1	x	0	0	x	0
1	x	x	1	0	0
1	x	x	1	1	1
1	x	1	x	0	0
1	x	1	x	1	1

Footprint

Cell Name	Area
OA221X3H7H	3.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	A1	B0	B1	C0	Y
OA221X3H7H	0.00103	0.00097	0.00096	0.00092	0.00105	0.08533

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OA221X3H7H	0.00000	0.03272	0.04414

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA221X3H7H	A0->Y (RR)	0.13462	0.32371	0.77685
	A1->Y (RR)	0.14064	0.33097	0.78779
	B0->Y (RR)	0.12631	0.31702	0.77698
	B1->Y (RR)	0.13172	0.32399	0.78858
	C0->Y (RR)	0.11990	0.30633	0.75657

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA221X3H7H	A0->Y (FF)	0.13163	0.29706	0.68585
	A1->Y (FF)	0.13551	0.30300	0.69366
	B0->Y (FF)	0.11812	0.28046	0.66113
	B1->Y (FF)	0.12171	0.28626	0.66904
	C0->Y (FF)	0.06467	0.21872	0.58413

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA221X3H7H	A0	0.00095	0.00106	0.00118
	A0	0.00011	0.00011	0.00011
	A0	-0.00012	-0.00012	-0.00012
	A0	0.00289	0.00300	0.00311
	A1	0.00095	0.00105	0.00116
	A1	0.00018	0.00018	0.00018
	A1	-0.00012	-0.00012	-0.00012
	A1	0.00307	0.00317	0.00328
	B0	0.00096	0.00107	0.00118
	B0	0.00011	0.00011	0.00011
	B0	-0.00004	-0.00004	-0.00004
	B0	0.00245	0.00254	0.00266
	B1	0.00096	0.00105	0.00116
	B1	0.00018	0.00018	0.00018
	B1	-0.00004	-0.00004	-0.00003
	B1	0.00260	0.00268	0.00279
	C0	0.00093	0.00104	0.00116
	C0	0.00017	0.00018	0.00018
	C0	0.00003	0.00003	0.00006
	C0	0.00228	0.00238	0.00251

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA221X3H7H	A0	0.00302	0.00312	0.00324
	A0	-0.00005	-0.00005	-0.00004
	A0	0.00013	0.00013	0.00013
	A0	0.00123	0.00133	0.00144
	A1	0.00322	0.00332	0.00343
	A1	-0.00011	-0.00011	-0.00009
	A1	0.00013	0.00013	0.00013
	A1	0.00121	0.00131	0.00143
	B0	0.00266	0.00277	0.00288
	B0	-0.00005	-0.00005	-0.00005
	B0	0.00004	0.00004	0.00004
	B0	0.00122	0.00132	0.00143
	B1	0.00286	0.00296	0.00307
	B1	-0.00011	-0.00011	-0.00011
	B1	0.00004	0.00004	0.00005
	B1	0.00123	0.00133	0.00144
	C0	0.00254	0.00266	0.00276
	C0	-0.00005	-0.00005	-0.00004
	C0	-0.00003	-0.00003	-0.00002
	C0	0.00113	0.00125	0.00136

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X3H7H	**(A1 * B0 * C0 * Y)**	-0.00000	0.00000	0.00001
	(A1 * B0 * C0 * Y)	-0.00004	-0.00004	-0.00004
	(A1 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * C0 * Y)	0.00038	0.00038	0.00038
	(A1 * B0 * !C0 * !Y)	-0.00019	-0.00017	-0.00016
	(A1 * B0 * !C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * !C0 * !Y)	-0.00000	0.00001	0.00001
	(A1 * B0 * !C0 * !Y)	0.00026	0.00026	0.00027
	(A1 * !B0 * B1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * B1 * C0 * Y)	-0.00004	-0.00004	-0.00004
	(A1 * !B0 * B1 * C0 * Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * B1 * C0 * Y)	0.00037	0.00038	0.00038
	(A1 * !B0 * B1 * !C0 * !Y)	-0.00019	-0.00018	-0.00016
	(A1 * !B0 * B1 * !C0 * !Y)	-0.00003	-0.00003	-0.00002
	(A1 * !B0 * B1 * !C0 * !Y)	-0.00000	0.00000	0.00001
	(A1 * !B0 * B1 * !C0 * !Y)	0.00026	0.00026	0.00027
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00019	-0.00017	-0.00016
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00003	-0.00003	-0.00002
	(A1 * !B0 * !B1 * C0 * !Y)	0.00000	0.00001	0.00002
	(A1 * !B0 * !B1 * C0 * !Y)	0.00025	0.00026	0.00026
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00019	-0.00018	-0.00016
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00003	-0.00003	-0.00002
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00026	0.00026	0.00026
	(!A1 * B0 * !C0 * !Y)	-0.00022	-0.00021	-0.00021
	(!A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !C0 * !Y)	0.00001	0.00002	0.00002
	(!A1 * B0 * !C0 * !Y)	0.00021	0.00021	0.00021
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00022	-0.00021	-0.00021
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00002	0.00002	0.00003
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00021	0.00021	0.00021
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00022	-0.00021	-0.00021
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00021	0.00021	0.00022
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00022	-0.00021	-0.00021
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00021	0.00021	0.00021

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X3H7H	**(A1 * B0 * C0 * Y)**	-0.00000	-0.00000	0.00000
	(A1 * B0 * C0 * Y)	0.00004	0.00004	0.00005
	(A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * C0 * Y)	-0.00038	-0.00038	-0.00037
	(A1 * B0 * !C0 * !Y)	0.00018	0.00018	0.00019
	(A1 * B0 * !C0 * !Y)	0.00003	0.00003	0.00003
	(A1 * B0 * !C0 * !Y)	-0.00001	-0.00000	0.00000
	(A1 * B0 * !C0 * !Y)	-0.00026	-0.00026	-0.00026
	(A1 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * C0 * Y)	0.00004	0.00004	0.00005
	(A1 * !B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * B1 * C0 * Y)	-0.00038	-0.00038	-0.00037
	(A1 * !B0 * B1 * !C0 * !Y)	0.00018	0.00018	0.00019
	(A1 * !B0 * B1 * !C0 * !Y)	0.00002	0.00003	0.00003
	(A1 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00000	0.00000
	(A1 * !B0 * B1 * !C0 * !Y)	-0.00026	-0.00026	-0.00026
	(A1 * !B0 * !B1 * C0 * !Y)	0.00018	0.00018	0.00019
	(A1 * !B0 * !B1 * C0 * !Y)	0.00003	0.00003	0.00003
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00001	-0.00000	0.00000
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00026	-0.00026	-0.00025
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00018	0.00018	0.00019
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00003	0.00003	0.00003
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00026	-0.00026	-0.00025
	(!A1 * B0 * !C0 * !Y)	0.00021	0.00021	0.00022
	(!A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * B0 * !C0 * !Y)	-0.00021	-0.00019	-0.00017
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00021	0.00021	0.00022
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00003	-0.00002	-0.00002
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00021	-0.00019	-0.00016
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00021	0.00021	0.00022
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00021	-0.00019	-0.00017
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00021	0.00021	0.00022
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00021	-0.00019	-0.00017

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X3H7H	**(A0 * B0 * C0 * Y)**	-0.00012	-0.00011	-0.00010
	(A0 * B0 * C0 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * B0 * C0 * Y)	0.00000	0.00001	0.00001
	(A0 * B0 * C0 * Y)	0.00034	0.00034	0.00035
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	-0.00018	-0.00017	-0.00015
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00001
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	0.00028	0.00028	0.00029
	(A0 * !B0 * B1 * C0 * Y)	-0.00012	-0.00011	-0.00009
	(A0 * !B0 * B1 * C0 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * !B0 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * B1 * C0 * Y)	0.00034	0.00034	0.00035
	(A0 * !B0 * !B1 * !Y)	-0.00018	-0.00017	-0.00015
	(A0 * !B0 * !B1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * !B0 * !B1 * !Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * !B1 * !Y)	0.00027	0.00028	0.00029
	(!A0 * B0 * !C0 * !Y)	-0.00021	-0.00021	-0.00020
	(!A0 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * B0 * !C0 * !Y)	0.00023	0.00023	0.00024
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00021	-0.00021	-0.00020
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00001	0.00002	0.00003
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00023	0.00023	0.00024
	(!A0 * !B0 * !B1 * C0 * !Y)	-0.00021	-0.00020	-0.00020
	(!A0 * !B0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * !B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * !B1 * C0 * !Y)	0.00023	0.00024	0.00024
	(!A0 * !B0 * !B1 * !C0 * !Y)	-0.00021	-0.00020	-0.00020
	(!A0 * !B0 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * !C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !B0 * !B1 * !C0 * !Y)	0.00023	0.00024	0.00024

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X3H7H	**(A0 * B0 * C0 * Y)**	0.00012	0.00012	0.00012
	(A0 * B0 * C0 * Y)	0.00002	0.00003	0.00003
	(A0 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * C0 * Y)	-0.00034	-0.00034	-0.00034
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	0.00018	0.00018	0.00018
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	0.00003	0.00003	0.00003
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00000	0.00000
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	-0.00029	-0.00028	-0.00028
	(A0 * !B0 * B1 * C0 * Y)	0.00012	0.00012	0.00012
	(A0 * !B0 * B1 * C0 * Y)	0.00002	0.00003	0.00003
	(A0 * !B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * B1 * C0 * Y)	-0.00035	-0.00034	-0.00034
	(A0 * !B0 * !B1 * !Y)	0.00017	0.00018	0.00018
	(A0 * !B0 * !B1 * !Y)	0.00003	0.00003	0.00003
	(A0 * !B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * !B1 * !Y)	-0.00029	-0.00028	-0.00027
	(!A0 * B0 * !C0 * !Y)	0.00020	0.00021	0.00021
	(!A0 * B0 * !C0 * !Y)	0.00001	0.00001	0.00002
	(!A0 * B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * B0 * !C0 * !Y)	-0.00023	-0.00021	-0.00018
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00020	0.00021	0.00021
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00003	-0.00002	-0.00001
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00023	-0.00021	-0.00018
	(!A0 * !B0 * !B1 * C0 * !Y)	0.00020	0.00020	0.00021
	(!A0 * !B0 * !B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * !B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * !B1 * C0 * !Y)	-0.00024	-0.00022	-0.00019
	(!A0 * !B0 * !B1 * !C0 * !Y)	0.00020	0.00020	0.00021
	(!A0 * !B0 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B0 * !B1 * !C0 * !Y)	-0.00024	-0.00022	-0.00020

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X3H7H	**(A0 * B1 * C0 * Y)**	-0.00000	0.00000	0.00000
	(A0 * B1 * C0 * Y)	-0.00004	-0.00004	-0.00003
	(A0 * B1 * C0 * Y)	0.00000	0.00001	0.00001
	(A0 * B1 * C0 * Y)	0.00036	0.00036	0.00037
	(A0 * B1 * !C0 * !Y)	-0.00016	-0.00015	-0.00013
	(A0 * B1 * !C0 * !Y)	-0.00003	-0.00003	-0.00002
	(A0 * B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * B1 * !C0 * !Y)	0.00028	0.00028	0.00028
	(A0 * !B1 * !C0 * !Y)	-0.00019	-0.00018	-0.00018
	(A0 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B1 * !C0 * !Y)	0.00002	0.00002	0.00003
	(A0 * !B1 * !C0 * !Y)	0.00023	0.00024	0.00024
	(!A0 * A1 * B1 * C0 * Y)	-0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A1 * B1 * C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * B1 * C0 * Y)	0.00036	0.00036	0.00037
	(!A0 * A1 * B1 * !C0 * !Y)	-0.00015	-0.00015	-0.00013
	(!A0 * A1 * B1 * !C0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * A1 * B1 * !C0 * !Y)	0.00000	0.00001	0.00002
	(!A0 * A1 * B1 * !C0 * !Y)	0.00026	0.00027	0.00028
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00019	-0.00018	-0.00018
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00024	0.00024	0.00024
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00016	-0.00015	-0.00013
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * B1 * C0 * !Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B1 * C0 * !Y)	0.00006	0.00007	0.00007
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00016	-0.00015	-0.00013
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !B1 * C0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A0 * !A1 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B1 * C0 * !Y)	0.00004	0.00005	0.00006
	(!A0 * !A1 * !B1 * C0 * !Y)	0.00006	0.00007	0.00008
	(!A0 * !A1 * !B1 * !C0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A0 * !A1 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B1 * !C0 * !Y)	0.00005	0.00006	0.00006
	(!A0 * !A1 * !B1 * !C0 * !Y)	0.00007	0.00007	0.00008

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X3H7H	**(A0 * B1 * C0 * Y)**	-0.00000	0.00000	0.00000
	(A0 * B1 * C0 * Y)	0.00004	0.00004	0.00004
	(A0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B1 * C0 * Y)	-0.00037	-0.00036	-0.00036
	(A0 * B1 * !C0 * !Y)	0.00015	0.00015	0.00016
	(A0 * B1 * !C0 * !Y)	0.00003	0.00003	0.00003
	(A0 * B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * B1 * !C0 * !Y)	-0.00028	-0.00028	-0.00028
	(A0 * !B1 * !C0 * !Y)	0.00018	0.00018	0.00019
	(A0 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B1 * !C0 * !Y)	-0.00024	-0.00023	-0.00021
	(!A0 * A1 * B1 * C0 * Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * B1 * C0 * Y)	0.00004	0.00004	0.00005
	(!A0 * A1 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * B1 * C0 * Y)	-0.00037	-0.00036	-0.00036
	(!A0 * A1 * B1 * !C0 * !Y)	0.00015	0.00015	0.00015
	(!A0 * A1 * B1 * !C0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * A1 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * B1 * !C0 * !Y)	-0.00028	-0.00027	-0.00026
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00018	0.00018	0.00019
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00024	-0.00022	-0.00019
	(!A0 * !A1 * B1 * C0 * !Y)	0.00016	0.00016	0.00016
	(!A0 * !A1 * B1 * C0 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00007	-0.00006	-0.00006
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00016	0.00016	0.00016
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !B1 * C0 * !Y)	0.00019	0.00019	0.00019
	(!A0 * !A1 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B1 * C0 * !Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !A1 * !B1 * C0 * !Y)	-0.00007	-0.00006	-0.00006
	(!A0 * !A1 * !B1 * !C0 * !Y)	0.00019	0.00019	0.00019
	(!A0 * !A1 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B1 * !C0 * !Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !A1 * !B1 * !C0 * !Y)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X3H7H	**(A0 * B0 * C0 * Y)**	-0.00012	-0.00011	-0.00010
	(A0 * B0 * C0 * Y)	-0.00003	-0.00002	-0.00002
	(A0 * B0 * C0 * Y)	0.00000	0.00001	0.00001
	(A0 * B0 * C0 * Y)	0.00030	0.00030	0.00031
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	-0.00014	-0.00014	-0.00012
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	-0.00000	0.00001	0.00001
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	0.00027	0.00027	0.00027
	(A0 * !B0 * !C0 * !Y)	-0.00017	-0.00017	-0.00017
	(A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !C0 * !Y)	0.00001	0.00002	0.00002
	(A0 * !B0 * !C0 * !Y)	0.00023	0.00024	0.00024
	(!A0 * A1 * B0 * C0 * Y)	-0.00012	-0.00011	-0.00009
	(!A0 * A1 * B0 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * B0 * C0 * Y)	-0.00000	0.00000	0.00001
	(!A0 * A1 * B0 * C0 * Y)	0.00030	0.00030	0.00031
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00023	0.00024	0.00024
	(!A0 * !A1 * B0 * C0 * !Y)	-0.00015	-0.00014	-0.00012
	(!A0 * !A1 * B0 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B0 * C0 * !Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B0 * C0 * !Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * B0 * !C0 * !Y)	-0.00015	-0.00014	-0.00012
	(!A0 * !A1 * B0 * !C0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B0 * !C0 * !Y)	0.00005	0.00006	0.00006
	(!A0 * !A1 * B0 * !C0 * !Y)	0.00007	0.00007	0.00008
	(!A0 * !A1 * !B0 * C0 * !Y)	-0.00018	-0.00018	-0.00017
	(!A0 * !A1 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !B0 * C0 * !Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !B0 * C0 * !Y)	0.00007	0.00008	0.00008
	(!A0 * !A1 * !B0 * !C0 * !Y)	-0.00018	-0.00018	-0.00017
	(!A0 * !A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * !C0 * !Y)	0.00006	0.00006	0.00007
	(!A0 * !A1 * !B0 * !C0 * !Y)	0.00007	0.00007	0.00008

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X3H7H	**(A0 * B0 * C0 * Y)**	0.00012	0.00012	0.00013
	(A0 * B0 * C0 * Y)	0.00002	0.00002	0.00003
	(A0 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * C0 * Y)	-0.00030	-0.00030	-0.00030
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	0.00014	0.00014	0.00014
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	0.00003	0.00003	0.00003
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	-0.00001	-0.00000	0.00000
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	-0.00027	-0.00027	-0.00027
	(A0 * !B0 * !C0 * !Y)	0.00017	0.00017	0.00018
	(A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00002
	(A0 * !B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * !B0 * !C0 * !Y)	-0.00024	-0.00022	-0.00021
	(!A0 * A1 * B0 * C0 * Y)	0.00012	0.00012	0.00012
	(!A0 * A1 * B0 * C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * B0 * C0 * Y)	-0.00001	-0.00000	0.00001
	(!A0 * A1 * B0 * C0 * Y)	-0.00030	-0.00030	-0.00030
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00017	0.00017	0.00018
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00024	-0.00022	-0.00021
	(!A0 * !A1 * B0 * C0 * !Y)	0.00015	0.00015	0.00015
	(!A0 * !A1 * B0 * C0 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B0 * C0 * !Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !A1 * B0 * C0 * !Y)	-0.00008	-0.00007	-0.00007
	(!A0 * !A1 * B0 * !C0 * !Y)	0.00015	0.00015	0.00015
	(!A0 * !A1 * B0 * !C0 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B0 * !C0 * !Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !A1 * B0 * !C0 * !Y)	-0.00008	-0.00007	-0.00007
	(!A0 * !A1 * !B0 * C0 * !Y)	0.00018	0.00018	0.00018
	(!A0 * !A1 * !B0 * C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !B0 * C0 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !B0 * C0 * !Y)	-0.00008	-0.00007	-0.00007
	(!A0 * !A1 * !B0 * !C0 * !Y)	0.00018	0.00018	0.00018
	(!A0 * !A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !A1 * !B0 * !C0 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !B0 * !C0 * !Y)	-0.00008	-0.00007	-0.00007

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA221X3H7H	(A0 * !B0 * !B1 * !Y)	-0.00030	-0.00030	-0.00029
	(A0 * !B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * !Y)	0.00003	0.00003	0.00004
	(A0 * !B0 * !B1 * !Y)	0.00008	0.00009	0.00009
	(!A0 * !B0 * !B1 * !Y)	-0.00030	-0.00030	-0.00029
	(!A0 * !B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * !B1 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !B0 * !B1 * !Y)	0.00009	0.00009	0.00009
	(!A0 * !A1 * B0 * !Y)	-0.00030	-0.00030	-0.00029
	(!A0 * !A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !Y)	0.00003	0.00003	0.00004
	(!A0 * !A1 * B0 * !Y)	0.00007	0.00008	0.00008
	(!A0 * !A1 * !B0 * B1 * !Y)	-0.00030	-0.00030	-0.00029
	(!A0 * !A1 * !B0 * B1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !B0 * B1 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !B0 * B1 * !Y)	0.00008	0.00008	0.00008

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA221X3H7H	(A0 * !B0 * !B1 * !Y)	0.00030	0.00030	0.00030
	(A0 * !B0 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * !B0 * !B1 * !Y)	-0.00009	-0.00009	-0.00008
	(!A0 * !B0 * !B1 * !Y)	0.00030	0.00030	0.00030
	(!A0 * !B0 * !B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !B0 * !B1 * !Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * B0 * !Y)	0.00030	0.00030	0.00030
	(!A0 * !A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B0 * !Y)	-0.00008	-0.00008	-0.00007
	(!A0 * !A1 * !B0 * B1 * !Y)	0.00030	0.00030	0.00030
	(!A0 * !A1 * !B0 * B1 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !A1 * !B0 * B1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !B0 * B1 * !Y)	-0.00008	-0.00008	-0.00007

OA221X4H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

OA221 (Y = (A0 + A1) • (B0 + B1) • C0)

Truth Table

INPUT					OUTPUT
A0	A1	B0	B1	C0	Y
0	0	x	x	x	0
x	1	0	0	x	0
x	1	x	1	0	0
x	1	x	1	1	1
x	1	1	x	0	0
x	1	1	x	1	1
1	x	0	0	x	0
1	x	x	1	0	0
1	x	x	1	1	1
1	x	1	x	0	0
1	x	1	x	1	1

Footprint

Cell Name	Area
OA221X4H7H	3.64000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	A1	B0	B1	C0	Y
OA221X4H7H	0.00110	0.00105	0.00104	0.00098	0.00112	0.10901

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OA221X4H7H	0.00000	0.04560	0.06950

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA221X4H7H	A0->Y (RR)	0.12995	0.32132	0.77948
	A1->Y (RR)	0.13617	0.32871	0.79006
	B0->Y (RR)	0.12215	0.31498	0.77913
	B1->Y (RR)	0.12749	0.32190	0.79093
	C0->Y (RR)	0.11600	0.30433	0.75823

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA221X4H7H	A0->Y (FF)	0.12858	0.29711	0.69112
	A1->Y (FF)	0.13271	0.30318	0.69894
	B0->Y (FF)	0.11566	0.28108	0.66716
	B1->Y (FF)	0.11931	0.28695	0.67552
	C0->Y (FF)	0.06287	0.21970	0.59067

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA221X4H7H	A0	0.00113	0.00126	0.00139
	A0	0.00011	0.00012	0.00012
	A0	-0.00014	-0.00014	-0.00013
	A0	0.00322	0.00335	0.00347
	A1	0.00113	0.00125	0.00137
	A1	0.00018	0.00019	0.00019
	A1	-0.00014	-0.00014	-0.00013
	A1	0.00342	0.00354	0.00366
	B0	0.00114	0.00126	0.00139
	B0	0.00011	0.00012	0.00012
	B0	-0.00004	-0.00004	-0.00003
	B0	0.00273	0.00284	0.00297
	B1	0.00114	0.00125	0.00137
	B1	0.00019	0.00019	0.00019
	B1	-0.00004	-0.00004	-0.00002
	B1	0.00290	0.00301	0.00313
	C0	0.00111	0.00123	0.00137
	C0	0.00019	0.00019	0.00019
	C0	0.00004	0.00005	0.00007
	C0	0.00255	0.00266	0.00280

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA221X4H7H	A0	0.00334	0.00345	0.00359
	A0	-0.00005	-0.00004	-0.00002
	A0	0.00014	0.00014	0.00015
	A0	0.00141	0.00152	0.00166
	A1	0.00356	0.00368	0.00381
	A1	-0.00012	-0.00012	-0.00010
	A1	0.00014	0.00015	0.00015
	A1	0.00139	0.00151	0.00164
	B0	0.00295	0.00307	0.00320
	B0	-0.00004	-0.00004	-0.00004
	B0	0.00004	0.00004	0.00004
	B0	0.00140	0.00152	0.00165
	B1	0.00317	0.00329	0.00341
	B1	-0.00012	-0.00012	-0.00011
	B1	0.00004	0.00004	0.00004
	B1	0.00141	0.00153	0.00165
	C0	0.00282	0.00296	0.00308
	C0	-0.00004	-0.00004	-0.00003
	C0	-0.00005	-0.00005	-0.00003
	C0	0.00131	0.00145	0.00157

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X4H7H	**(A1 * B0 * C0 * Y)**	-0.00000	0.00000	0.00001
	(A1 * B0 * C0 * Y)	-0.00005	-0.00004	-0.00004
	(A1 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * C0 * Y)	0.00040	0.00040	0.00040
	(A1 * B0 * !C0 * !Y)	-0.00020	-0.00019	-0.00017
	(A1 * B0 * !C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !C0 * !Y)	0.00027	0.00028	0.00028
	(A1 * !B0 * B1 * C0 * Y)	-0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * C0 * Y)	-0.00005	-0.00004	-0.00004
	(A1 * !B0 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * B1 * C0 * Y)	0.00040	0.00040	0.00040
	(A1 * !B0 * B1 * !C0 * !Y)	-0.00020	-0.00019	-0.00017
	(A1 * !B0 * B1 * !C0 * !Y)	-0.00003	-0.00003	-0.00002
	(A1 * !B0 * B1 * !C0 * !Y)	-0.00000	0.00001	0.00001
	(A1 * !B0 * B1 * !C0 * !Y)	0.00028	0.00028	0.00029
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00020	-0.00019	-0.00017
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00000	0.00001	0.00001
	(A1 * !B0 * !B1 * C0 * !Y)	0.00028	0.00028	0.00028
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00020	-0.00019	-0.00017
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00027	0.00028	0.00028
	(!A1 * B0 * !C0 * !Y)	-0.00023	-0.00023	-0.00023
	(!A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !C0 * !Y)	0.00002	0.00003	0.00004
	(!A1 * B0 * !C0 * !Y)	0.00021	0.00022	0.00022
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00023	-0.00023	-0.00023
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00002	0.00003	0.00003
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00021	0.00022	0.00022
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00023	-0.00023	-0.00023
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00002	0.00003	0.00004
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00021	0.00022	0.00023
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00023	-0.00023	-0.00023
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00022	0.00022	0.00023

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X4H7H	**(A1 * B0 * C0 * Y)**	-0.00000	0.00000	0.00001
	(A1 * B0 * C0 * Y)	0.00004	0.00005	0.00005
	(A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * C0 * Y)	-0.00040	-0.00040	-0.00040
	(A1 * B0 * !C0 * !Y)	0.00020	0.00020	0.00020
	(A1 * B0 * !C0 * !Y)	0.00003	0.00003	0.00003
	(A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !C0 * !Y)	-0.00028	-0.00028	-0.00027
	(A1 * !B0 * B1 * C0 * Y)	-0.00000	0.00000	0.00001
	(A1 * !B0 * B1 * C0 * Y)	0.00004	0.00005	0.00005
	(A1 * !B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * B1 * C0 * Y)	-0.00040	-0.00040	-0.00040
	(A1 * !B0 * B1 * !C0 * !Y)	0.00020	0.00020	0.00020
	(A1 * !B0 * B1 * !C0 * !Y)	0.00002	0.00003	0.00003
	(A1 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00000	0.00000
	(A1 * !B0 * B1 * !C0 * !Y)	-0.00028	-0.00028	-0.00028
	(A1 * !B0 * !B1 * C0 * !Y)	0.00020	0.00020	0.00020
	(A1 * !B0 * !B1 * C0 * !Y)	0.00003	0.00003	0.00003
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00001	-0.00000	0.00000
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00028	-0.00028	-0.00028
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00020	0.00020	0.00020
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00003	0.00003	0.00003
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00001	-0.00000	0.00000
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00028	-0.00028	-0.00027
	(!A1 * B0 * !C0 * !Y)	0.00023	0.00023	0.00023
	(!A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !C0 * !Y)	-0.00003	-0.00002	-0.00002
	(!A1 * B0 * !C0 * !Y)	-0.00022	-0.00020	-0.00018
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00023	0.00023	0.00023
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00003	-0.00002	-0.00002
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00022	-0.00020	-0.00018
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00023	0.00023	0.00023
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00003	-0.00002	-0.00002
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00023	-0.00021	-0.00019
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00023	0.00023	0.00023
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00022	-0.00021	-0.00018

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X4H7H	**(A0 * B0 * C0 * Y)**	-0.00014	-0.00012	-0.00011
	(A0 * B0 * C0 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * C0 * Y)	0.00036	0.00036	0.00037
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	-0.00020	-0.00019	-0.00017
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	0.00030	0.00030	0.00030
	(A0 * !B0 * B1 * C0 * Y)	-0.00014	-0.00013	-0.00010
	(A0 * !B0 * B1 * C0 * Y)	-0.00004	-0.00003	-0.00003
	(A0 * !B0 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * B1 * C0 * Y)	0.00036	0.00037	0.00037
	(A0 * !B0 * !B1 * !Y)	-0.00020	-0.00019	-0.00017
	(A0 * !B0 * !B1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * !B0 * !B1 * !Y)	0.00001	0.00001	0.00002
	(A0 * !B0 * !B1 * !Y)	0.00029	0.00030	0.00030
	(!A0 * B0 * !C0 * !Y)	-0.00023	-0.00023	-0.00023
	(!A0 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * B0 * !C0 * !Y)	0.00024	0.00025	0.00026
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00023	-0.00023	-0.00023
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00024	0.00025	0.00026
	(!A0 * !B0 * !B1 * C0 * !Y)	-0.00023	-0.00023	-0.00023
	(!A0 * !B0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * !B1 * C0 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !B0 * !B1 * C0 * !Y)	0.00025	0.00025	0.00025
	(!A0 * !B0 * !B1 * !C0 * !Y)	-0.00023	-0.00023	-0.00023
	(!A0 * !B0 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * !C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !B0 * !B1 * !C0 * !Y)	0.00025	0.00025	0.00026

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X4H7H	**(A0 * B0 * C0 * Y)**	0.00014	0.00014	0.00014
	(A0 * B0 * C0 * Y)	0.00002	0.00003	0.00003
	(A0 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * C0 * Y)	-0.00037	-0.00036	-0.00036
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	0.00019	0.00020	0.00020
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	0.00003	0.00003	0.00003
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00000	0.00000
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	-0.00030	-0.00030	-0.00030
	(A0 * !B0 * B1 * C0 * Y)	0.00013	0.00014	0.00014
	(A0 * !B0 * B1 * C0 * Y)	0.00003	0.00003	0.00004
	(A0 * !B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * B1 * C0 * Y)	-0.00037	-0.00036	-0.00036
	(A0 * !B0 * !B1 * !Y)	0.00019	0.00020	0.00020
	(A0 * !B0 * !B1 * !Y)	0.00003	0.00003	0.00003
	(A0 * !B0 * !B1 * !Y)	-0.00002	-0.00001	-0.00000
	(A0 * !B0 * !B1 * !Y)	-0.00030	-0.00030	-0.00029
	(!A0 * B0 * !C0 * !Y)	0.00023	0.00023	0.00023
	(!A0 * B0 * !C0 * !Y)	0.00001	0.00001	0.00002
	(!A0 * B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * B0 * !C0 * !Y)	-0.00024	-0.00022	-0.00019
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00023	0.00023	0.00023
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00025	-0.00023	-0.00019
	(!A0 * !B0 * !B1 * C0 * !Y)	0.00023	0.00023	0.00023
	(!A0 * !B0 * !B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * !B1 * C0 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * !B0 * !B1 * C0 * !Y)	-0.00025	-0.00023	-0.00022
	(!A0 * !B0 * !B1 * !C0 * !Y)	0.00023	0.00023	0.00023
	(!A0 * !B0 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !B0 * !B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B0 * !B1 * !C0 * !Y)	-0.00025	-0.00023	-0.00021

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X4H7H	**(A0 * B1 * C0 * Y)**	-0.00000	-0.00000	0.00000
	(A0 * B1 * C0 * Y)	-0.00005	-0.00004	-0.00004
	(A0 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B1 * C0 * Y)	0.00038	0.00039	0.00039
	(A0 * B1 * !C0 * !Y)	-0.00017	-0.00016	-0.00014
	(A0 * B1 * !C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B1 * !C0 * !Y)	0.00029	0.00029	0.00029
	(A0 * !B1 * !C0 * !Y)	-0.00021	-0.00020	-0.00020
	(A0 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B1 * !C0 * !Y)	0.00001	0.00002	0.00002
	(A0 * !B1 * !C0 * !Y)	0.00024	0.00025	0.00026
	(!A0 * A1 * B1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * B1 * C0 * Y)	-0.00005	-0.00004	-0.00003
	(!A0 * A1 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B1 * C0 * Y)	0.00038	0.00039	0.00039
	(!A0 * A1 * B1 * !C0 * !Y)	-0.00017	-0.00016	-0.00014
	(!A0 * A1 * B1 * !C0 * !Y)	-0.00004	-0.00003	-0.00003
	(!A0 * A1 * B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * B1 * !C0 * !Y)	0.00028	0.00029	0.00029
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00021	-0.00020	-0.00020
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00025	0.00025	0.00025
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00017	-0.00016	-0.00014
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B1 * C0 * !Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * B1 * C0 * !Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00018	-0.00016	-0.00014
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !B1 * C0 * !Y)	-0.00021	-0.00021	-0.00020
	(!A0 * !A1 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B1 * C0 * !Y)	0.00006	0.00006	0.00007
	(!A0 * !A1 * !B1 * C0 * !Y)	0.00005	0.00006	0.00006
	(!A0 * !A1 * !B1 * !C0 * !Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !A1 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B1 * !C0 * !Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * !B1 * !C0 * !Y)	0.00006	0.00006	0.00006

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X4H7H	**(A0 * B1 * C0 * Y)**	-0.00000	0.00000	0.00000
	(A0 * B1 * C0 * Y)	0.00005	0.00005	0.00005
	(A0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B1 * C0 * Y)	-0.00039	-0.00038	-0.00038
	(A0 * B1 * !C0 * !Y)	0.00017	0.00017	0.00017
	(A0 * B1 * !C0 * !Y)	0.00003	0.00003	0.00003
	(A0 * B1 * !C0 * !Y)	-0.00001	-0.00000	0.00000
	(A0 * B1 * !C0 * !Y)	-0.00029	-0.00029	-0.00029
	(A0 * !B1 * !C0 * !Y)	0.00020	0.00020	0.00021
	(A0 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * !B1 * !C0 * !Y)	-0.00025	-0.00023	-0.00021
	(!A0 * A1 * B1 * C0 * Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * B1 * C0 * Y)	0.00003	0.00005	0.00005
	(!A0 * A1 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B1 * C0 * Y)	-0.00039	-0.00038	-0.00038
	(!A0 * A1 * B1 * !C0 * !Y)	0.00017	0.00017	0.00017
	(!A0 * A1 * B1 * !C0 * !Y)	0.00003	0.00003	0.00004
	(!A0 * A1 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * B1 * !C0 * !Y)	-0.00029	-0.00029	-0.00028
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00020	0.00020	0.00021
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00025	-0.00023	-0.00020
	(!A0 * !A1 * B1 * C0 * !Y)	0.00017	0.00018	0.00018
	(!A0 * !A1 * B1 * C0 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00017	0.00017	0.00018
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !B1 * C0 * !Y)	0.00021	0.00021	0.00021
	(!A0 * !A1 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B1 * C0 * !Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !A1 * !B1 * C0 * !Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !A1 * !B1 * !C0 * !Y)	0.00021	0.00021	0.00021
	(!A0 * !A1 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B1 * !C0 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * !B1 * !C0 * !Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X4H7H	**(A0 * B0 * C0 * Y)**	-0.00014	-0.00013	-0.00011
	(A0 * B0 * C0 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * C0 * Y)	0.00032	0.00032	0.00032
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	-0.00016	-0.00015	-0.00013
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	0.00029	0.00029	0.00030
	(A0 * !B0 * !C0 * !Y)	-0.00019	-0.00019	-0.00019
	(A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !C0 * !Y)	0.00001	0.00002	0.00002
	(A0 * !B0 * !C0 * !Y)	0.00025	0.00026	0.00026
	(!A0 * A1 * B0 * C0 * Y)	-0.00014	-0.00012	-0.00011
	(!A0 * A1 * B0 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * C0 * Y)	0.00032	0.00032	0.00032
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00002	0.00002	0.00003
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00024	0.00025	0.00025
	(!A0 * !A1 * B0 * C0 * !Y)	-0.00016	-0.00015	-0.00013
	(!A0 * !A1 * B0 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B0 * C0 * !Y)	0.00005	0.00006	0.00006
	(!A0 * !A1 * B0 * C0 * !Y)	0.00007	0.00007	0.00008
	(!A0 * !A1 * B0 * !C0 * !Y)	-0.00016	-0.00015	-0.00013
	(!A0 * !A1 * B0 * !C0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B0 * !C0 * !Y)	0.00006	0.00007	0.00007
	(!A0 * !A1 * B0 * !C0 * !Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * !B0 * C0 * !Y)	-0.00020	-0.00019	-0.00019
	(!A0 * !A1 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * C0 * !Y)	0.00005	0.00006	0.00006
	(!A0 * !A1 * !B0 * C0 * !Y)	0.00007	0.00007	0.00008
	(!A0 * !A1 * !B0 * !C0 * !Y)	-0.00020	-0.00019	-0.00019
	(!A0 * !A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * !C0 * !Y)	0.00007	0.00007	0.00008
	(!A0 * !A1 * !B0 * !C0 * !Y)	0.00007	0.00007	0.00008

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X4H7H	**(A0 * B0 * C0 * Y)**	0.00013	0.00014	0.00014
	(A0 * B0 * C0 * Y)	0.00002	0.00003	0.00003
	(A0 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * C0 * Y)	-0.00032	-0.00032	-0.00031
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	0.00016	0.00016	0.00016
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	0.00003	0.00003	0.00003
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	-0.00030	-0.00029	-0.00029
	(A0 * !B0 * !C0 * !Y)	0.00019	0.00019	0.00020
	(A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00002
	(A0 * !B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * !B0 * !C0 * !Y)	-0.00025	-0.00024	-0.00021
	(!A0 * A1 * B0 * C0 * Y)	0.00013	0.00014	0.00014
	(!A0 * A1 * B0 * C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * B0 * C0 * Y)	-0.00001	-0.00000	0.00001
	(!A0 * A1 * B0 * C0 * Y)	-0.00032	-0.00032	-0.00032
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00019	0.00019	0.00020
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00025	-0.00024	-0.00021
	(!A0 * !A1 * B0 * C0 * !Y)	0.00016	0.00017	0.00017
	(!A0 * !A1 * B0 * C0 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B0 * C0 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B0 * C0 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * B0 * !C0 * !Y)	0.00016	0.00016	0.00016
	(!A0 * !A1 * B0 * !C0 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B0 * !C0 * !Y)	-0.00007	-0.00007	-0.00006
	(!A0 * !A1 * B0 * !C0 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * !B0 * C0 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !A1 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * C0 * !Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !A1 * !B0 * C0 * !Y)	-0.00008	-0.00007	-0.00007
	(!A0 * !A1 * !B0 * !C0 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !A1 * !B0 * !C0 * !Y)	-0.00007	-0.00007	-0.00006
	(!A0 * !A1 * !B0 * !C0 * !Y)	-0.00008	-0.00007	-0.00007

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA221X4H7H	(A0 * !B0 * !B1 * !Y)	-0.00032	-0.00032	-0.00032
	(A0 * !B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * !Y)	0.00002	0.00003	0.00004
	(A0 * !B0 * !B1 * !Y)	0.00009	0.00009	0.00010
	(!A0 * !B0 * !B1 * !Y)	-0.00032	-0.00032	-0.00032
	(!A0 * !B0 * !B1 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !B0 * !B1 * !Y)	0.00009	0.00009	0.00010
	(!A0 * !A1 * B0 * !Y)	-0.00032	-0.00032	-0.00032
	(!A0 * !A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !Y)	0.00003	0.00003	0.00004
	(!A0 * !A1 * B0 * !Y)	0.00008	0.00008	0.00009
	(!A0 * !A1 * !B0 * B1 * !Y)	-0.00032	-0.00032	-0.00032
	(!A0 * !A1 * !B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * B1 * !Y)	0.00002	0.00003	0.00004
	(!A0 * !A1 * !B0 * B1 * !Y)	0.00008	0.00008	0.00009

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA221X4H7H	(A0 * !B0 * !B1 * !Y)	0.00032	0.00032	0.00032
	(A0 * !B0 * !B1 * !Y)	0.00001	0.00001	0.00002
	(A0 * !B0 * !B1 * !Y)	-0.00003	-0.00003	-0.00002
	(A0 * !B0 * !B1 * !Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !B0 * !B1 * !Y)	0.00032	0.00032	0.00032
	(!A0 * !B0 * !B1 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !B0 * !B1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !B0 * !B1 * !Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * B0 * !Y)	0.00032	0.00032	0.00032
	(!A0 * !A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !Y)	-0.00004	-0.00003	-0.00002
	(!A0 * !A1 * B0 * !Y)	-0.00009	-0.00008	-0.00008
	(!A0 * !A1 * !B0 * B1 * !Y)	0.00032	0.00032	0.00032
	(!A0 * !A1 * !B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * B1 * !Y)	-0.00004	-0.00003	-0.00002
	(!A0 * !A1 * !B0 * B1 * !Y)	-0.00008	-0.00008	-0.00007

OA222X0P5H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

OA222 (Y = (A0 + A1) • (B0 + B1) • (C0 + C1))

Truth Table

INPUT						OUTPUT
A0	A1	B0	B1	C0	C1	Y
0	0	x	x	x	x	0
x	1	0	0	x	x	0
x	1	x	1	0	0	0
x	1	x	1	x	1	1
x	1	x	1	1	x	1
x	1	1	x	0	0	0
x	1	1	x	x	1	1
x	1	1	x	1	x	1
1	x	0	0	x	x	0
1	x	x	1	0	0	0
1	x	x	1	x	1	1
1	x	x	1	1	x	1
1	x	1	x	0	0	0
1	x	1	x	x	1	1
1	x	1	x	1	x	1

Footprint

Cell Name	Area
OA222X0P5H7H	3.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	**A1**	**B0**	**B1**	**C0**	**C1**	**Y**
OA222X0P5H7H	0.00086	0.00091	0.00085	0.00086	0.00082	0.00095	0.03043

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
OA222X0P5H7H	0.00000	0.01922	0.02699

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA222X0P5H7H	A0->Y (RR)	0.15588	0.34061	0.79226
	A1->Y (RR)	0.15054	0.33421	0.78319
	B0->Y (RR)	0.14713	0.33459	0.79634
	B1->Y (RR)	0.14083	0.32700	0.78500
	C0->Y (RR)	0.12640	0.30869	0.75508
	C1->Y (RR)	0.12306	0.30362	0.74516

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA222X0P5H7H	A0->Y (FF)	0.15602	0.31761	0.70230
	A1->Y (FF)	0.15251	0.31220	0.69650
	B0->Y (FF)	0.14045	0.29887	0.67500
	B1->Y (FF)	0.13608	0.29263	0.66818
	C0->Y (FF)	0.11901	0.27297	0.63708
	C1->Y (FF)	0.11766	0.26952	0.63340

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA222X0P5H7H	A0	0.00040	0.00046	0.00051
	A0	0.00019	0.00020	0.00021
	A0	-0.00016	-0.00016	-0.00015
	A0	0.00256	0.00261	0.00267
	A1	0.00040	0.00047	0.00052
	A1	0.00015	0.00015	0.00015
	A1	-0.00016	-0.00015	-0.00015
	A1	0.00243	0.00249	0.00255
	B0	0.00041	0.00046	0.00051
	B0	0.00018	0.00020	0.00022
	B0	-0.00010	-0.00009	-0.00006
	B0	0.00219	0.00224	0.00229
	B1	0.00041	0.00047	0.00052
	B1	0.00015	0.00015	0.00015
	B1	-0.00010	-0.00009	-0.00009
	B1	0.00204	0.00209	0.00214
	C0	0.00040	0.00045	0.00051
	C0	0.00019	0.00020	0.00020
	C0	-0.00003	-0.00002	-0.00001
	C0	0.00183	0.00187	0.00193
	C1	0.00039	0.00045	0.00052
	C1	0.00015	0.00015	0.00015
	C1	-0.00002	-0.00002	0.00001
	C1	0.00169	0.00174	0.00181

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA222X0P5H7H	A0	0.00262	0.00269	0.00275
	A0	-0.00011	-0.00011	-0.00010
	A0	0.00017	0.00017	0.00017
	A0	0.00056	0.00061	0.00068
	A1	0.00249	0.00254	0.00261
	A1	-0.00006	-0.00006	-0.00005
	A1	0.00017	0.00017	0.00017
	A1	0.00057	0.00063	0.00069
	B0	0.00232	0.00238	0.00244
	B0	-0.00011	-0.00011	-0.00010
	B0	0.00010	0.00010	0.00011
	B0	0.00054	0.00061	0.00066
	B1	0.00217	0.00223	0.00229
	B1	-0.00006	-0.00006	-0.00006
	B1	0.00009	0.00010	0.00011
	B1	0.00058	0.00063	0.00069
	C0	0.00195	0.00201	0.00206
	C0	-0.00011	-0.00011	-0.00010
	C0	0.00002	0.00003	0.00003
	C0	0.00045	0.00051	0.00057
	C1	0.00183	0.00189	0.00196
	C1	-0.00006	-0.00006	-0.00006
	C1	0.00002	0.00003	0.00003
	C1	0.00049	0.00056	0.00062

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X0P5H7H	**(A1 * B1 * C1 * Y)**	-0.00009	-0.00008	-0.00007
	(A1 * B1 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C1 * Y)	0.00032	0.00032	0.00032
	(A1 * B1 * C0 * !C1 * Y)	-0.00009	-0.00008	-0.00007
	(A1 * B1 * C0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00001
	(A1 * B1 * C0 * !C1 * Y)	0.00032	0.00032	0.00033
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	-0.00014	-0.00014	-0.00012
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	0.00026	0.00026	0.00027
	(A1 * B0 * !B1 * C1 * Y)	-0.00009	-0.00008	-0.00007
	(A1 * B0 * !B1 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * !B1 * C1 * Y)	0.00032	0.00032	0.00033
	(A1 * B0 * !B1 * C0 * !C1 * Y)	-0.00009	-0.00008	-0.00007
	(A1 * B0 * !B1 * C0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C0 * !C1 * Y)	0.00032	0.00032	0.00033
	(A1 * !B0 * !B1 * !Y)	-0.00014	-0.00014	-0.00012
	(A1 * !B0 * !B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * !Y)	0.00026	0.00026	0.00027
	(!A1 * B1 * !C0 * !C1 * !Y)	-0.00016	-0.00016	-0.00016
	(!A1 * B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B1 * !C0 * !C1 * !Y)	0.00001	0.00002	0.00003
	(!A1 * B1 * !C0 * !C1 * !Y)	0.00021	0.00021	0.00022
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00016	-0.00016	-0.00016
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00002	0.00002
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	0.00021	0.00022	0.00022
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00016	-0.00016	-0.00016
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00022	0.00022	0.00023
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00016	-0.00016	-0.00016
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	0.00022	0.00022	0.00022
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00016	-0.00016	-0.00016
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00022	0.00022	0.00023

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X0P5H7H	**(A1 * B1 * C1 * Y)**	0.00009	0.00009	0.00009
	(A1 * B1 * C1 * Y)	0.00002	0.00002	0.00002
	(A1 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C1 * Y)	-0.00032	-0.00032	-0.00031
	(A1 * B1 * C0 * !C1 * Y)	0.00009	0.00009	0.00009
	(A1 * B1 * C0 * !C1 * Y)	0.00002	0.00002	0.00002
	(A1 * B1 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C0 * !C1 * Y)	-0.00032	-0.00032	-0.00032
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	0.00014	0.00014	0.00014
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	-0.00027	-0.00026	-0.00026
	(A1 * B0 * !B1 * C1 * Y)	0.00009	0.00009	0.00009
	(A1 * B0 * !B1 * C1 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * C1 * Y)	-0.00032	-0.00032	-0.00032
	(A1 * B0 * !B1 * C0 * !C1 * Y)	0.00009	0.00009	0.00009
	(A1 * B0 * !B1 * C0 * !C1 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !B1 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * C0 * !C1 * Y)	-0.00032	-0.00032	-0.00032
	(A1 * !B0 * !B1 * !Y)	0.00014	0.00014	0.00014
	(A1 * !B0 * !B1 * !Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !B1 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * !B1 * !Y)	-0.00026	-0.00026	-0.00026
	(!A1 * B1 * !C0 * !C1 * !Y)	0.00016	0.00016	0.00016
	(!A1 * B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B1 * !C0 * !C1 * !Y)	-0.00003	-0.00002	-0.00001
	(!A1 * B1 * !C0 * !C1 * !Y)	-0.00022	-0.00020	-0.00018
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	0.00016	0.00016	0.00017
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00022	-0.00020	-0.00019
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00016	0.00016	0.00016
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00002	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00022	-0.00021	-0.00018
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	0.00016	0.00016	0.00016
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00022	-0.00021	-0.00018
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00016	0.00016	0.00016
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00022	-0.00021	-0.00018

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X0P5H7H	**(A0 * B1 * C1 * Y)**	-0.00000	-0.00000	0.00000
	(A0 * B1 * C1 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B1 * C1 * Y)	0.00034	0.00035	0.00035
	(A0 * B1 * C0 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !C1 * Y)	0.00034	0.00035	0.00035
	(A0 * B1 * !C0 * !C1 * !Y)	-0.00015	-0.00015	-0.00013
	(A0 * B1 * !C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B1 * !C0 * !C1 * !Y)	0.00024	0.00024	0.00025
	(A0 * B0 * !B1 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C1 * Y)	0.00034	0.00035	0.00035
	(A0 * B0 * !B1 * C0 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C0 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * !B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00001
	(A0 * B0 * !B1 * C0 * !C1 * Y)	0.00034	0.00035	0.00035
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00015	-0.00015	-0.00013
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00024	0.00024	0.00024
	(A0 * !B0 * !B1 * C1 * !Y)	-0.00015	-0.00015	-0.00013
	(A0 * !B0 * !B1 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * !B1 * C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * !B1 * C1 * !Y)	0.00024	0.00024	0.00024
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00015	-0.00015	-0.00013
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00003	-0.00002	-0.00002
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00024	0.00024	0.00024
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00015	-0.00015	-0.00013
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00024	0.00024	0.00024
	(!A0 * B1 * !C0 * !C1 * !Y)	-0.00018	-0.00017	-0.00017
	(!A0 * B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B1 * !C0 * !C1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * B1 * !C0 * !C1 * !Y)	0.00019	0.00019	0.00020
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00018	-0.00017	-0.00017
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00002
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !B0 * !B1 * C1 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * C1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !B0 * !B1 * C1 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00020	0.00020	0.00021
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00020	0.00020	0.00021

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X0P5H7H	**(A0 * B1 * C1 * Y)**	0.00000	0.00000	0.00000
	(A0 * B1 * C1 * Y)	0.00002	0.00003	0.00004
	(A0 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * C1 * Y)	-0.00035	-0.00034	-0.00034
	(A0 * B1 * C0 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !C1 * Y)	0.00003	0.00003	0.00003
	(A0 * B1 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * C0 * !C1 * Y)	-0.00035	-0.00034	-0.00034
	(A0 * B1 * !C0 * !C1 * !Y)	0.00015	0.00015	0.00015
	(A0 * B1 * !C0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * B1 * !C0 * !C1 * !Y)	-0.00024	-0.00024	-0.00024
	(A0 * B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C1 * Y)	0.00003	0.00003	0.00003
	(A0 * B0 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !B1 * C1 * Y)	-0.00035	-0.00034	-0.00034
	(A0 * B0 * !B1 * C0 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C0 * !C1 * Y)	0.00003	0.00003	0.00003
	(A0 * B0 * !B1 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !B1 * C0 * !C1 * Y)	-0.00035	-0.00035	-0.00034
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00015	0.00015	0.00015
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00024	-0.00024	-0.00024
	(A0 * !B0 * !B1 * C1 * !Y)	0.00015	0.00015	0.00015
	(A0 * !B0 * !B1 * C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * !B1 * C1 * !Y)	-0.00001	-0.00000	-0.00000
	(A0 * !B0 * !B1 * C1 * !Y)	-0.00024	-0.00024	-0.00024
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00015	0.00015	0.00015
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00002	0.00002	0.00003
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00024	-0.00024	-0.00024
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00015	0.00015	0.00015
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00024	-0.00024	-0.00024
	(!A0 * B1 * !C0 * !C1 * !Y)	0.00017	0.00017	0.00018
	(!A0 * B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B1 * !C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * B1 * !C0 * !C1 * !Y)	-0.00020	-0.00018	-0.00016
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00017	0.00017	0.00018
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00020	-0.00018	-0.00016
	(!A0 * !B0 * !B1 * C1 * !Y)	0.00017	0.00017	0.00017
	(!A0 * !B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B0 * !B1 * C1 * !Y)	-0.00020	-0.00019	-0.00017
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00017	0.00017	0.00017
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00020	-0.00019	-0.00017
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00017	0.00017	0.00017
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00020	-0.00019	-0.00017

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X0P5H7H	**(A1 * B1 * C1 * Y)**	-0.00009	-0.00008	-0.00007
	(A1 * B1 * C1 * Y)	-0.00002	-0.00002	-0.00001
	(A1 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C1 * Y)	0.00030	0.00030	0.00031
	(A1 * B1 * C0 * !C1 * Y)	-0.00009	-0.00008	-0.00007
	(A1 * B1 * C0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C0 * !C1 * Y)	0.00030	0.00030	0.00031
	(A1 * !B1 * !C0 * !C1 * !Y)	-0.00014	-0.00014	-0.00014
	(A1 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B1 * !C0 * !C1 * !Y)	0.00023	0.00023	0.00024
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	-0.00012	-0.00012	-0.00010
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	0.00026	0.00027	0.00027
	(A0 * !A1 * B1 * C1 * Y)	-0.00009	-0.00008	-0.00007
	(A0 * !A1 * B1 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B1 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C1 * Y)	0.00030	0.00030	0.00031
	(A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00009	-0.00008	-0.00007
	(A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B1 * C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * B1 * C0 * !C1 * Y)	0.00030	0.00030	0.00030
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00014	-0.00014	-0.00014
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00023	0.00023	0.00023
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00013	-0.00012	-0.00011
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * C1 * !Y)	0.00003	0.00003	0.00004
	(!A0 * !A1 * B1 * C1 * !Y)	0.00009	0.00009	0.00009
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00013	-0.00012	-0.00011
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00003	0.00003	0.00004
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00009	0.00010	0.00010
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	-0.00013	-0.00012	-0.00011
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	0.00009	0.00010	0.00010
	(!A0 * !A1 * !B1 * C1 * !Y)	-0.00015	-0.00015	-0.00014
	(!A0 * !A1 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !B1 * C1 * !Y)	0.00003	0.00003	0.00004
	(!A0 * !A1 * !B1 * C1 * !Y)	0.00009	0.00009	0.00010
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	-0.00015	-0.00015	-0.00014
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	0.00003	0.00004	0.00004
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	0.00009	0.00009	0.00010
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00015	-0.00015	-0.00014
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00004	0.00005	0.00005
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00009	0.00010	0.00010

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X0P5H7H	**(A1 * B1 * C1 * Y)**	0.00009	0.00009	0.00009
	(A1 * B1 * C1 * Y)	0.00001	0.00002	0.00002
	(A1 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C1 * Y)	-0.00030	-0.00030	-0.00030
	(A1 * B1 * C0 * !C1 * Y)	0.00009	0.00009	0.00009
	(A1 * B1 * C0 * !C1 * Y)	0.00002	0.00002	0.00002
	(A1 * B1 * C0 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B1 * C0 * !C1 * Y)	-0.00030	-0.00030	-0.00030
	(A1 * !B1 * !C0 * !C1 * !Y)	0.00014	0.00015	0.00015
	(A1 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B1 * !C0 * !C1 * !Y)	-0.00023	-0.00022	-0.00020
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	0.00012	0.00012	0.00012
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	-0.00001	-0.00000	0.00000
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	-0.00027	-0.00027	-0.00026
	(A0 * !A1 * B1 * C1 * Y)	0.00009	0.00009	0.00009
	(A0 * !A1 * B1 * C1 * Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * B1 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * B1 * C1 * Y)	-0.00030	-0.00030	-0.00030
	(A0 * !A1 * B1 * C0 * !C1 * Y)	0.00009	0.00009	0.00009
	(A0 * !A1 * B1 * C0 * !C1 * Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00030	-0.00030	-0.00030
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00014	0.00015	0.00015
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00023	-0.00022	-0.00020
	(!A0 * !A1 * B1 * C1 * !Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * B1 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	0.00012	0.00013	0.00013
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	-0.00010	-0.00010	-0.00009
	(!A0 * !A1 * !B1 * C1 * !Y)	0.00015	0.00015	0.00015
	(!A0 * !A1 * !B1 * C1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !B1 * C1 * !Y)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * !B1 * C1 * !Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	0.00015	0.00015	0.00015
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00014	0.00015	0.00015
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00005	-0.00004	-0.00004
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00010	-0.00010	-0.00009

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X0P5H7H	**(A1 * B0 * C1 * Y)**	-0.00000	0.00000	0.00000
	(A1 * B0 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C1 * Y)	0.00030	0.00030	0.00031
	(A1 * B0 * C0 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * C0 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !C1 * Y)	0.00030	0.00030	0.00031
	(A1 * B0 * !C0 * !C1 * !Y)	-0.00012	-0.00011	-0.00010
	(A1 * B0 * !C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * !C1 * !Y)	0.00024	0.00024	0.00024
	(A1 * !B0 * !C0 * !C1 * !Y)	-0.00014	-0.00014	-0.00014
	(A1 * !B0 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00002
	(A1 * !B0 * !C0 * !C1 * !Y)	0.00020	0.00020	0.00020
	(A0 * !A1 * B0 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * B0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C1 * Y)	0.00030	0.00030	0.00031
	(A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * B0 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C0 * !C1 * Y)	0.00030	0.00030	0.00031
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00012	-0.00011	-0.00010
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00023	0.00024	0.00024
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00014	-0.00014	-0.00014
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00002
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !A1 * B0 * C1 * !Y)	-0.00013	-0.00012	-0.00011
	(!A0 * !A1 * B0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * C1 * !Y)	0.00003	0.00004	0.00004
	(!A0 * !A1 * B0 * C1 * !Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00013	-0.00012	-0.00011
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00003	0.00003	0.00004
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00013	-0.00012	-0.00011
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00003	0.00004	0.00004
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00006	0.00006	0.00007
	(!A0 * !A1 * !B0 * C1 * !Y)	-0.00015	-0.00015	-0.00014
	(!A0 * !A1 * !B0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * C1 * !Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !B0 * C1 * !Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	-0.00015	-0.00015	-0.00014
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	0.00003	0.00004	0.00004
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	0.00006	0.00006	0.00007
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00015	-0.00015	-0.00014
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00004	0.00005	0.00005
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00006	0.00006	0.00007

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X0P5H7H	**(A1 * B0 * C1 * Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * C1 * Y)	0.00003	0.00003	0.00003
	(A1 * B0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C1 * Y)	-0.00031	-0.00030	-0.00030
	(A1 * B0 * C0 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !C1 * Y)	0.00003	0.00003	0.00003
	(A1 * B0 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * !C1 * Y)	-0.00031	-0.00030	-0.00030
	(A1 * B0 * !C0 * !C1 * !Y)	0.00012	0.00012	0.00012
	(A1 * B0 * !C0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !C0 * !C1 * !Y)	-0.00024	-0.00023	-0.00023
	(A1 * !B0 * !C0 * !C1 * !Y)	0.00014	0.00014	0.00015
	(A1 * !B0 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !C0 * !C1 * !Y)	-0.00002	-0.00001	-0.00001
	(A1 * !B0 * !C0 * !C1 * !Y)	-0.00020	-0.00019	-0.00017
	(A0 * !A1 * B0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C1 * Y)	0.00003	0.00003	0.00003
	(A0 * !A1 * B0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * C1 * Y)	-0.00031	-0.00030	-0.00030
	(A0 * !A1 * B0 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C0 * !C1 * Y)	0.00003	0.00003	0.00003
	(A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00031	-0.00030	-0.00030
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00012	0.00012	0.00012
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00024	-0.00024	-0.00023
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00014	0.00014	0.00015
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00002	-0.00001	-0.00001
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00020	-0.00019	-0.00016
	(!A0 * !A1 * B0 * C1 * !Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * B0 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * C1 * !Y)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * B0 * C1 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00012	0.00013	0.00013
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00004	-0.00004	-0.00003
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !B0 * C1 * !Y)	0.00015	0.00015	0.00015
	(!A0 * !A1 * !B0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * C1 * !Y)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * !B0 * C1 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	0.00015	0.00015	0.00015
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00015	0.00015	0.00015
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00007	-0.00006	-0.00006

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X0P5H7H	**(A1 * B1 * C1 * Y)**	-0.00009	-0.00008	-0.00007
	(A1 * B1 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C1 * Y)	0.00031	0.00032	0.00032
	(A1 * B0 * !B1 * C1 * Y)	-0.00009	-0.00008	-0.00006
	(A1 * B0 * !B1 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C1 * Y)	0.00031	0.00031	0.00031
	(A1 * !B0 * !B1 * C1 * !Y)	-0.00020	-0.00019	-0.00018
	(A1 * !B0 * !B1 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !B1 * C1 * !Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !B1 * C1 * !Y)	0.00011	0.00011	0.00011
	(A1 * !B0 * !B1 * !C1 * !Y)	-0.00022	-0.00021	-0.00021
	(A1 * !B0 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * !C1 * !Y)	0.00002	0.00002	0.00003
	(A1 * !B0 * !B1 * !C1 * !Y)	0.00010	0.00011	0.00011
	(A0 * !A1 * B1 * C1 * Y)	-0.00009	-0.00008	-0.00006
	(A0 * !A1 * B1 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C1 * Y)	0.00031	0.00031	0.00031
	(A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00009	-0.00008	-0.00007
	(A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * !A1 * B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C1 * Y)	0.00031	0.00032	0.00032
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00020	-0.00019	-0.00018
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00002	0.00002	0.00003
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00010	0.00011	0.00011
	(!A1 * !B0 * !B1 * !C1 * !Y)	-0.00022	-0.00021	-0.00021
	(!A1 * !B0 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * !C1 * !Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !B1 * !C1 * !Y)	0.00011	0.00011	0.00011
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00020	-0.00019	-0.00018
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * C1 * !Y)	0.00010	0.00010	0.00011
	(!A0 * !A1 * B1 * !C1 * !Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !A1 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * !C1 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !A1 * B1 * !C1 * !Y)	0.00009	0.00010	0.00011
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00020	-0.00019	-0.00018
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00010	0.00010	0.00011
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	0.00010	0.00010	0.00010

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X0P5H7H	**(A1 * B1 * C1 * Y)**	0.00009	0.00009	0.00009
	(A1 * B1 * C1 * Y)	0.00002	0.00002	0.00002
	(A1 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C1 * Y)	-0.00031	-0.00031	-0.00031
	(A1 * B0 * !B1 * C1 * Y)	0.00009	0.00009	0.00009
	(A1 * B0 * !B1 * C1 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * C1 * Y)	-0.00031	-0.00031	-0.00031
	(A1 * !B0 * !B1 * C1 * !Y)	0.00019	0.00020	0.00020
	(A1 * !B0 * !B1 * C1 * !Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !B1 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * !B0 * !B1 * C1 * !Y)	-0.00011	-0.00011	-0.00011
	(A1 * !B0 * !B1 * !C1 * !Y)	0.00021	0.00021	0.00022
	(A1 * !B0 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * !C1 * !Y)	-0.00003	-0.00002	-0.00002
	(A1 * !B0 * !B1 * !C1 * !Y)	-0.00011	-0.00011	-0.00010
	(A0 * !A1 * B1 * C1 * Y)	0.00009	0.00009	0.00009
	(A0 * !A1 * B1 * C1 * Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * C1 * Y)	-0.00031	-0.00031	-0.00031
	(A0 * !A1 * B0 * !B1 * C1 * Y)	0.00009	0.00009	0.00009
	(A0 * !A1 * B0 * !B1 * C1 * Y)	0.00001	0.00002	0.00002
	(A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00031	-0.00031	-0.00031
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00020	0.00020	0.00020
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00003	-0.00002	-0.00002
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00011	-0.00011	-0.00010
	(!A1 * !B0 * !B1 * !C1 * !Y)	0.00021	0.00021	0.00022
	(!A1 * !B0 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !B1 * !C1 * !Y)	-0.00011	-0.00011	-0.00011
	(!A0 * !A1 * B1 * C1 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !A1 * B1 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !A1 * B1 * !C1 * !Y)	0.00021	0.00021	0.00022
	(!A0 * !A1 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * !C1 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * !A1 * B1 * !C1 * !Y)	-0.00010	-0.00010	-0.00009
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	0.00021	0.00021	0.00022
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	-0.00010	-0.00010	-0.00010

Passive power(pJ) for C1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X0P5H7H	**(A1 * B1 * C0 * Y)**	-0.00000	-0.00000	0.00000
	(A1 * B1 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * B1 * C0 * Y)	0.00000	0.00000	0.00001
	(A1 * B1 * C0 * Y)	0.00034	0.00034	0.00034
	(A1 * B0 * !B1 * C0 * Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C0 * Y)	0.00033	0.00034	0.00034
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00024	-0.00023	-0.00022
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !B1 * C0 * !Y)	0.00001	0.00002	0.00002
	(A1 * !B0 * !B1 * C0 * !Y)	0.00006	0.00006	0.00006
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00026	-0.00026	-0.00026
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00002	0.00002	0.00003
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00005	0.00006	0.00006
	(A0 * !A1 * B1 * C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C0 * Y)	0.00033	0.00034	0.00034
	(A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * !A1 * B0 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C0 * Y)	0.00034	0.00034	0.00034
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00024	-0.00023	-0.00022
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00006	0.00006	0.00006
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00026	-0.00026	-0.00026
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00002	0.00002	0.00003
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00005	0.00006	0.00006
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00024	-0.00023	-0.00022
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * B1 * C0 * !Y)	0.00005	0.00005	0.00006
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00026	-0.00026	-0.00026
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00005	0.00005	0.00006
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00024	-0.00023	-0.00022
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00005	0.00005	0.00006
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	-0.00026	-0.00026	-0.00026
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	0.00005	0.00005	0.00005

Passive power(pJ) for C1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X0P5H7H	**(A1 * B1 * C0 * Y)**	0.00000	0.00000	0.00000
	(A1 * B1 * C0 * Y)	0.00003	0.00003	0.00003
	(A1 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C0 * Y)	-0.00034	-0.00034	-0.00034
	(A1 * B0 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C0 * Y)	0.00003	0.00003	0.00003
	(A1 * B0 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * C0 * Y)	-0.00034	-0.00034	-0.00033
	(A1 * !B0 * !B1 * C0 * !Y)	0.00024	0.00024	0.00024
	(A1 * !B0 * !B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00006	-0.00006	-0.00006
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00026	0.00026	0.00026
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00006	-0.00006	-0.00005
	(A0 * !A1 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C0 * Y)	0.00003	0.00003	0.00003
	(A0 * !A1 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * C0 * Y)	-0.00034	-0.00034	-0.00033
	(A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C0 * Y)	0.00003	0.00003	0.00004
	(A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00034	-0.00034	-0.00033
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00024	0.00024	0.00024
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00006	-0.00006	-0.00005
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00026	0.00026	0.00026
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !A1 * B1 * C0 * !Y)	0.00024	0.00024	0.00024
	(!A0 * !A1 * B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00006	-0.00005	-0.00005
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00026	0.00026	0.00026
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00024	0.00024	0.00024
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00006	-0.00005	-0.00005
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	0.00026	0.00026	0.00026
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	-0.00005	-0.00005	-0.00004

OA222X0P7H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

OA222 (Y = (A0 + A1) • (B0 + B1) • (C0 + C1))

Truth Table

INPUT						OUTPUT
A0	A1	B0	B1	C0	C1	Y
0	0	x	x	x	x	0
x	1	0	0	x	x	0
x	1	x	1	0	0	0
x	1	x	1	x	1	1
x	1	x	1	1	x	1
x	1	1	x	0	0	0
x	1	1	x	x	1	1
x	1	1	x	1	x	1
1	x	0	0	x	x	0
1	x	x	1	0	0	0
1	x	x	1	x	1	1
1	x	x	1	1	x	1
1	x	1	x	0	0	0
1	x	1	x	x	1	1
1	x	1	x	1	x	1

Footprint

Cell Name	Area
OA222X0P7H7H	3.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	**A1**	**B0**	**B1**	**C0**	**C1**	**Y**
OA222X0P7H7H	0.00087	0.00092	0.00085	0.00086	0.00082	0.00096	0.03420

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
OA222X0P7H7H	0.00000	0.01990	0.02904

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA222X0P7H7H	A0->Y (RR)	0.15508	0.33958	0.78899
	A1->Y (RR)	0.14980	0.33320	0.77992
	B0->Y (RR)	0.14622	0.33350	0.79341
	B1->Y (RR)	0.13996	0.32597	0.78183
	C0->Y (RR)	0.12552	0.30769	0.75243
	C1->Y (RR)	0.12223	0.30273	0.74263

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA222X0P7H7H	A0->Y (FF)	0.15587	0.31879	0.70433
	A1->Y (FF)	0.15231	0.31332	0.69854
	B0->Y (FF)	0.14014	0.29985	0.67694
	B1->Y (FF)	0.13588	0.29373	0.67044
	C0->Y (FF)	0.11875	0.27405	0.63960
	C1->Y (FF)	0.11741	0.27061	0.63596

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA222X0P7H7H	A0	0.00043	0.00049	0.00055
	A0	0.00019	0.00019	0.00020
	A0	-0.00015	-0.00015	-0.00015
	A0	0.00259	0.00265	0.00270
	A1	0.00043	0.00050	0.00056
	A1	0.00014	0.00015	0.00015
	A1	-0.00015	-0.00015	-0.00015
	A1	0.00246	0.00252	0.00258
	B0	0.00044	0.00049	0.00055
	B0	0.00019	0.00019	0.00020
	B0	-0.00009	-0.00009	-0.00007
	B0	0.00222	0.00227	0.00232
	B1	0.00044	0.00050	0.00056
	B1	0.00013	0.00015	0.00015
	B1	-0.00009	-0.00009	-0.00007
	B1	0.00206	0.00212	0.00218
	C0	0.00043	0.00048	0.00054
	C0	0.00019	0.00019	0.00019
	C0	-0.00002	-0.00002	-0.00000
	C0	0.00185	0.00190	0.00196
	C1	0.00042	0.00048	0.00055
	C1	0.00014	0.00015	0.00015
	C1	-0.00002	-0.00002	0.00001
	C1	0.00171	0.00177	0.00184

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA222X0P7H7H	A0	0.00265	0.00271	0.00278
	A0	-0.00010	-0.00010	-0.00010
	A0	0.00016	0.00016	0.00017
	A0	0.00058	0.00064	0.00071
	A1	0.00251	0.00257	0.00264
	A1	-0.00006	-0.00006	-0.00005
	A1	0.00016	0.00016	0.00017
	A1	0.00060	0.00066	0.00073
	B0	0.00234	0.00241	0.00247
	B0	-0.00010	-0.00010	-0.00008
	B0	0.00009	0.00010	0.00012
	B0	0.00057	0.00064	0.00070
	B1	0.00220	0.00226	0.00232
	B1	-0.00006	-0.00006	-0.00005
	B1	0.00009	0.00010	0.00011
	B1	0.00061	0.00067	0.00073
	C0	0.00197	0.00203	0.00209
	C0	-0.00011	-0.00010	-0.00010
	C0	0.00002	0.00002	0.00003
	C0	0.00048	0.00055	0.00060
	C1	0.00186	0.00192	0.00199
	C1	-0.00006	-0.00006	-0.00005
	C1	0.00002	0.00002	0.00003
	C1	0.00052	0.00059	0.00065

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X0P7H7H	**(A1 * B1 * C1 * Y)**	-0.00009	-0.00008	-0.00007
	(A1 * B1 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C1 * Y)	0.00032	0.00032	0.00033
	(A1 * B1 * C0 * !C1 * Y)	-0.00009	-0.00008	-0.00007
	(A1 * B1 * C0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00001
	(A1 * B1 * C0 * !C1 * Y)	0.00032	0.00032	0.00033
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	-0.00014	-0.00014	-0.00013
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	0.00027	0.00027	0.00027
	(A1 * B0 * !B1 * C1 * Y)	-0.00009	-0.00008	-0.00007
	(A1 * B0 * !B1 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * !B1 * C1 * Y)	0.00032	0.00032	0.00033
	(A1 * B0 * !B1 * C0 * !C1 * Y)	-0.00009	-0.00008	-0.00007
	(A1 * B0 * !B1 * C0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C0 * !C1 * Y)	0.00032	0.00032	0.00033
	(A1 * !B0 * !B1 * !Y)	-0.00014	-0.00014	-0.00013
	(A1 * !B0 * !B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00001
	(A1 * !B0 * !B1 * !Y)	0.00027	0.00027	0.00028
	(!A1 * B1 * !C0 * !C1 * !Y)	-0.00016	-0.00016	-0.00016
	(!A1 * B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B1 * !C0 * !C1 * !Y)	0.00001	0.00002	0.00003
	(!A1 * B1 * !C0 * !C1 * !Y)	0.00021	0.00022	0.00023
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00016	-0.00016	-0.00016
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00002	0.00002
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	0.00022	0.00022	0.00023
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00016	-0.00016	-0.00016
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00022	0.00022	0.00023
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00016	-0.00016	-0.00016
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	0.00022	0.00022	0.00023
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00016	-0.00016	-0.00016
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00022	0.00023	0.00023

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X0P7H7H	**(A1 * B1 * C1 * Y)**	0.00009	0.00009	0.00009
	(A1 * B1 * C1 * Y)	0.00002	0.00002	0.00002
	(A1 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C1 * Y)	-0.00032	-0.00032	-0.00032
	(A1 * B1 * C0 * !C1 * Y)	0.00009	0.00009	0.00009
	(A1 * B1 * C0 * !C1 * Y)	0.00002	0.00002	0.00002
	(A1 * B1 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C0 * !C1 * Y)	-0.00033	-0.00032	-0.00032
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	0.00014	0.00014	0.00014
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	-0.00001	-0.00000	-0.00000
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	-0.00027	-0.00027	-0.00027
	(A1 * B0 * !B1 * C1 * Y)	0.00009	0.00009	0.00009
	(A1 * B0 * !B1 * C1 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * C1 * Y)	-0.00033	-0.00032	-0.00032
	(A1 * B0 * !B1 * C0 * !C1 * Y)	0.00009	0.00009	0.00009
	(A1 * B0 * !B1 * C0 * !C1 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !B1 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * C0 * !C1 * Y)	-0.00033	-0.00032	-0.00032
	(A1 * !B0 * !B1 * !Y)	0.00014	0.00014	0.00014
	(A1 * !B0 * !B1 * !Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !B1 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * !B1 * !Y)	-0.00027	-0.00027	-0.00026
	(!A1 * B1 * !C0 * !C1 * !Y)	0.00016	0.00016	0.00016
	(!A1 * B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B1 * !C0 * !C1 * !Y)	-0.00003	-0.00002	-0.00001
	(!A1 * B1 * !C0 * !C1 * !Y)	-0.00022	-0.00020	-0.00018
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	0.00016	0.00016	0.00017
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00022	-0.00021	-0.00019
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00016	0.00016	0.00016
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00022	-0.00021	-0.00018
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	0.00016	0.00016	0.00016
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00023	-0.00021	-0.00018
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00016	0.00016	0.00016
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00002	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00022	-0.00021	-0.00019

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X0P7H7H	**(A0 * B1 * C1 * Y)**	-0.00000	-0.00000	0.00000
	(A0 * B1 * C1 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B1 * C1 * Y)	0.00034	0.00035	0.00035
	(A0 * B1 * C0 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !C1 * Y)	0.00034	0.00035	0.00035
	(A0 * B1 * !C0 * !C1 * !Y)	-0.00016	-0.00015	-0.00014
	(A0 * B1 * !C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B1 * !C0 * !C1 * !Y)	0.00024	0.00024	0.00025
	(A0 * B0 * !B1 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C1 * Y)	0.00034	0.00035	0.00035
	(A0 * B0 * !B1 * C0 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C0 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * !B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00001
	(A0 * B0 * !B1 * C0 * !C1 * Y)	0.00035	0.00035	0.00035
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00015	-0.00015	-0.00014
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00024	0.00024	0.00024
	(A0 * !B0 * !B1 * C1 * !Y)	-0.00015	-0.00015	-0.00014
	(A0 * !B0 * !B1 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * !B1 * C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * !B1 * C1 * !Y)	0.00023	0.00024	0.00024
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00015	-0.00015	-0.00014
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00024	0.00024	0.00024
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00016	-0.00015	-0.00014
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00024	0.00024	0.00025
	(!A0 * B1 * !C0 * !C1 * !Y)	-0.00018	-0.00018	-0.00017
	(!A0 * B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B1 * !C0 * !C1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * B1 * !C0 * !C1 * !Y)	0.00019	0.00019	0.00020
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00018	-0.00018	-0.00017
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00002
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !B0 * !B1 * C1 * !Y)	-0.00018	-0.00017	-0.00017
	(!A0 * !B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * C1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !B0 * !B1 * C1 * !Y)	0.00019	0.00020	0.00020
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00018	-0.00017	-0.00017
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00019	0.00020	0.00020
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00018	-0.00017	-0.00017
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00020	0.00020	0.00021

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X0P7H7H	**(A0 * B1 * C1 * Y)**	0.00000	0.00000	0.00000
	(A0 * B1 * C1 * Y)	0.00002	0.00003	0.00004
	(A0 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * C1 * Y)	-0.00035	-0.00035	-0.00034
	(A0 * B1 * C0 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !C1 * Y)	0.00003	0.00003	0.00003
	(A0 * B1 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * C0 * !C1 * Y)	-0.00035	-0.00035	-0.00034
	(A0 * B1 * !C0 * !C1 * !Y)	0.00015	0.00015	0.00016
	(A0 * B1 * !C0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * !C0 * !C1 * !Y)	-0.00024	-0.00024	-0.00023
	(A0 * B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C1 * Y)	0.00003	0.00003	0.00003
	(A0 * B0 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !B1 * C1 * Y)	-0.00035	-0.00035	-0.00034
	(A0 * B0 * !B1 * C0 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C0 * !C1 * Y)	0.00003	0.00003	0.00003
	(A0 * B0 * !B1 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !B1 * C0 * !C1 * Y)	-0.00035	-0.00035	-0.00035
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00015	0.00015	0.00015
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00024	-0.00024	-0.00023
	(A0 * !B0 * !B1 * C1 * !Y)	0.00015	0.00015	0.00016
	(A0 * !B0 * !B1 * C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * !B1 * C1 * !Y)	-0.00001	-0.00000	-0.00000
	(A0 * !B0 * !B1 * C1 * !Y)	-0.00024	-0.00024	-0.00023
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00015	0.00015	0.00015
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00024	-0.00024	-0.00023
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00015	0.00015	0.00016
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00024	-0.00024	-0.00024
	(!A0 * B1 * !C0 * !C1 * !Y)	0.00018	0.00018	0.00018
	(!A0 * B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B1 * !C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * B1 * !C0 * !C1 * !Y)	-0.00020	-0.00018	-0.00015
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00018	0.00018	0.00018
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00020	-0.00018	-0.00017
	(!A0 * !B0 * !B1 * C1 * !Y)	0.00017	0.00017	0.00018
	(!A0 * !B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B0 * !B1 * C1 * !Y)	-0.00020	-0.00019	-0.00017
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00017	0.00017	0.00018
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00020	-0.00019	-0.00017
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00017	0.00017	0.00018
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00020	-0.00018	-0.00016

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X0P7H7H	**(A1 * B1 * C1 * Y)**	-0.00009	-0.00008	-0.00007
	(A1 * B1 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C1 * Y)	0.00030	0.00030	0.00031
	(A1 * B1 * C0 * !C1 * Y)	-0.00009	-0.00008	-0.00007
	(A1 * B1 * C0 * !C1 * Y)	-0.00002	-0.00002	-0.00001
	(A1 * B1 * C0 * !C1 * Y)	0.00000	0.00001	0.00002
	(A1 * B1 * C0 * !C1 * Y)	0.00030	0.00030	0.00030
	(A1 * !B1 * !C0 * !C1 * !Y)	-0.00014	-0.00014	-0.00014
	(A1 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00002
	(A1 * !B1 * !C0 * !C1 * !Y)	0.00023	0.00023	0.00024
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	-0.00012	-0.00011	-0.00010
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	0.00026	0.00027	0.00027
	(A0 * !A1 * B1 * C1 * Y)	-0.00009	-0.00008	-0.00007
	(A0 * !A1 * B1 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B1 * C1 * Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * B1 * C1 * Y)	0.00030	0.00030	0.00031
	(A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00009	-0.00008	-0.00007
	(A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B1 * C0 * !C1 * Y)	0.00000	0.00001	0.00002
	(A0 * !A1 * B1 * C0 * !C1 * Y)	0.00030	0.00030	0.00030
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00014	-0.00014	-0.00014
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00002
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00023	0.00023	0.00023
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00013	-0.00012	-0.00011
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * C1 * !Y)	0.00003	0.00003	0.00004
	(!A0 * !A1 * B1 * C1 * !Y)	0.00009	0.00010	0.00010
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00013	-0.00012	-0.00011
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00003	0.00003	0.00004
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00009	0.00009	0.00009
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	-0.00013	-0.00012	-0.00011
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	0.00004	0.00004	0.00005
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	0.00009	0.00010	0.00010
	(!A0 * !A1 * !B1 * C1 * !Y)	-0.00015	-0.00015	-0.00014
	(!A0 * !A1 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !B1 * C1 * !Y)	0.00003	0.00004	0.00004
	(!A0 * !A1 * !B1 * C1 * !Y)	0.00009	0.00009	0.00010
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	-0.00015	-0.00015	-0.00014
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	0.00003	0.00004	0.00004
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	0.00009	0.00010	0.00010
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00015	-0.00015	-0.00014
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00010	0.00010	0.00010

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X0P7H7H	**(A1 * B1 * C1 * Y)**	0.00008	0.00009	0.00009
	(A1 * B1 * C1 * Y)	0.00002	0.00002	0.00002
	(A1 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C1 * Y)	-0.00030	-0.00030	-0.00030
	(A1 * B1 * C0 * !C1 * Y)	0.00009	0.00009	0.00009
	(A1 * B1 * C0 * !C1 * Y)	0.00001	0.00002	0.00002
	(A1 * B1 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C0 * !C1 * Y)	-0.00030	-0.00030	-0.00030
	(A1 * !B1 * !C0 * !C1 * !Y)	0.00014	0.00014	0.00015
	(A1 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * !B1 * !C0 * !C1 * !Y)	-0.00002	-0.00001	-0.00001
	(A1 * !B1 * !C0 * !C1 * !Y)	-0.00024	-0.00022	-0.00020
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	0.00012	0.00012	0.00012
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	-0.00027	-0.00027	-0.00026
	(A0 * !A1 * B1 * C1 * Y)	0.00009	0.00009	0.00009
	(A0 * !A1 * B1 * C1 * Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * B1 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B1 * C1 * Y)	-0.00030	-0.00030	-0.00029
	(A0 * !A1 * B1 * C0 * !C1 * Y)	0.00009	0.00009	0.00009
	(A0 * !A1 * B1 * C0 * !C1 * Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00030	-0.00030	-0.00030
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00014	0.00015	0.00015
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00002	-0.00001	-0.00001
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00023	-0.00022	-0.00020
	(!A0 * !A1 * B1 * C1 * !Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * B1 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	0.00012	0.00013	0.00013
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	-0.00010	-0.00010	-0.00009
	(!A0 * !A1 * !B1 * C1 * !Y)	0.00015	0.00015	0.00015
	(!A0 * !A1 * !B1 * C1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !B1 * C1 * !Y)	-0.00004	-0.00004	-0.00003
	(!A0 * !A1 * !B1 * C1 * !Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	0.00015	0.00015	0.00015
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	-0.00010	-0.00009	-0.00009
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00014	0.00015	0.00015
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00010	-0.00010	-0.00010

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X0P7H7H	**(A1 * B0 * C1 * Y)**	-0.00000	0.00000	0.00000
	(A1 * B0 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C1 * Y)	0.00030	0.00030	0.00031
	(A1 * B0 * C0 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * C0 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !C1 * Y)	0.00030	0.00030	0.00031
	(A1 * B0 * !C0 * !C1 * !Y)	-0.00012	-0.00011	-0.00010
	(A1 * B0 * !C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(A1 * B0 * !C0 * !C1 * !Y)	0.00023	0.00023	0.00024
	(A1 * !B0 * !C0 * !C1 * !Y)	-0.00014	-0.00014	-0.00014
	(A1 * !B0 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00002
	(A1 * !B0 * !C0 * !C1 * !Y)	0.00020	0.00020	0.00020
	(A0 * !A1 * B0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * B0 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * B0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C1 * Y)	0.00030	0.00031	0.00031
	(A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * B0 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C0 * !C1 * Y)	0.00030	0.00031	0.00031
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00012	-0.00011	-0.00010
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00024	0.00024	0.00024
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00014	-0.00014	-0.00014
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !A1 * B0 * C1 * !Y)	-0.00013	-0.00012	-0.00011
	(!A0 * !A1 * B0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * C1 * !Y)	0.00003	0.00003	0.00004
	(!A0 * !A1 * B0 * C1 * !Y)	0.00005	0.00006	0.00006
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00013	-0.00012	-0.00011
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00006	0.00006	0.00007
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00013	-0.00012	-0.00011
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !B0 * C1 * !Y)	-0.00015	-0.00015	-0.00014
	(!A0 * !A1 * !B0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * C1 * !Y)	0.00003	0.00004	0.00004
	(!A0 * !A1 * !B0 * C1 * !Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00004	0.00005	0.00005
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00006	0.00006	0.00007

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X0P7H7H	**(A1 * B0 * C1 * Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * C1 * Y)	0.00003	0.00003	0.00003
	(A1 * B0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C1 * Y)	-0.00031	-0.00030	-0.00030
	(A1 * B0 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !C1 * Y)	0.00003	0.00003	0.00003
	(A1 * B0 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * !C1 * Y)	-0.00031	-0.00030	-0.00030
	(A1 * B0 * !C0 * !C1 * !Y)	0.00012	0.00012	0.00012
	(A1 * B0 * !C0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * !C1 * !Y)	-0.00024	-0.00023	-0.00023
	(A1 * !B0 * !C0 * !C1 * !Y)	0.00014	0.00014	0.00015
	(A1 * !B0 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !C0 * !C1 * !Y)	-0.00002	-0.00001	-0.00001
	(A1 * !B0 * !C0 * !C1 * !Y)	-0.00020	-0.00019	-0.00017
	(A0 * !A1 * B0 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C1 * Y)	0.00003	0.00003	0.00003
	(A0 * !A1 * B0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * C1 * Y)	-0.00031	-0.00030	-0.00030
	(A0 * !A1 * B0 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C0 * !C1 * Y)	0.00003	0.00003	0.00003
	(A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00031	-0.00030	-0.00030
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00012	0.00012	0.00012
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00024	-0.00023	-0.00023
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00014	0.00014	0.00015
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00020	-0.00019	-0.00016
	(!A0 * !A1 * B0 * C1 * !Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * B0 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B0 * C1 * !Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00007	-0.00006	-0.00006
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00012	0.00013	0.00013
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !B0 * C1 * !Y)	0.00015	0.00015	0.00015
	(!A0 * !A1 * !B0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * C1 * !Y)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * !B0 * C1 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	0.00015	0.00015	0.00015
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	-0.00004	-0.00004	-0.00003
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00015	0.00015	0.00015
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00007	-0.00006	-0.00006

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X0P7H7H	**(A1 * B1 * C1 * Y)**	-0.00009	-0.00008	-0.00007
	(A1 * B1 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C1 * Y)	0.00031	0.00032	0.00032
	(A1 * B0 * !B1 * C1 * Y)	-0.00009	-0.00008	-0.00006
	(A1 * B0 * !B1 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C1 * Y)	0.00031	0.00031	0.00031
	(A1 * !B0 * !B1 * C1 * !Y)	-0.00020	-0.00019	-0.00018
	(A1 * !B0 * !B1 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !B1 * C1 * !Y)	0.00002	0.00002	0.00003
	(A1 * !B0 * !B1 * C1 * !Y)	0.00010	0.00011	0.00011
	(A1 * !B0 * !B1 * !C1 * !Y)	-0.00022	-0.00021	-0.00021
	(A1 * !B0 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * !C1 * !Y)	0.00002	0.00002	0.00003
	(A1 * !B0 * !B1 * !C1 * !Y)	0.00010	0.00011	0.00012
	(A0 * !A1 * B1 * C1 * Y)	-0.00009	-0.00008	-0.00006
	(A0 * !A1 * B1 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C1 * Y)	0.00031	0.00031	0.00031
	(A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00009	-0.00008	-0.00007
	(A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * !A1 * B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C1 * Y)	0.00031	0.00031	0.00032
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00020	-0.00019	-0.00018
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00002	0.00002	0.00003
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00010	0.00011	0.00011
	(!A1 * !B0 * !B1 * !C1 * !Y)	-0.00022	-0.00021	-0.00021
	(!A1 * !B0 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * !C1 * !Y)	0.00002	0.00002	0.00003
	(!A1 * !B0 * !B1 * !C1 * !Y)	0.00010	0.00011	0.00011
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00020	-0.00019	-0.00018
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * C1 * !Y)	0.00010	0.00011	0.00011
	(!A0 * !A1 * B1 * !C1 * !Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !A1 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * !C1 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !A1 * B1 * !C1 * !Y)	0.00009	0.00010	0.00011
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00020	-0.00019	-0.00018
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00010	0.00010	0.00011
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	0.00009	0.00010	0.00011

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X0P7H7H	**(A1 * B1 * C1 * Y)**	0.00009	0.00009	0.00009
	(A1 * B1 * C1 * Y)	0.00002	0.00002	0.00002
	(A1 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C1 * Y)	-0.00031	-0.00031	-0.00031
	(A1 * B0 * !B1 * C1 * Y)	0.00008	0.00009	0.00009
	(A1 * B0 * !B1 * C1 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * C1 * Y)	-0.00031	-0.00031	-0.00031
	(A1 * !B0 * !B1 * C1 * !Y)	0.00020	0.00020	0.00020
	(A1 * !B0 * !B1 * C1 * !Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !B1 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * !B0 * !B1 * C1 * !Y)	-0.00011	-0.00011	-0.00010
	(A1 * !B0 * !B1 * !C1 * !Y)	0.00021	0.00021	0.00022
	(A1 * !B0 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * !C1 * !Y)	-0.00003	-0.00002	-0.00002
	(A1 * !B0 * !B1 * !C1 * !Y)	-0.00011	-0.00011	-0.00010
	(A0 * !A1 * B1 * C1 * Y)	0.00008	0.00009	0.00009
	(A0 * !A1 * B1 * C1 * Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * C1 * Y)	-0.00031	-0.00031	-0.00031
	(A0 * !A1 * B0 * !B1 * C1 * Y)	0.00008	0.00009	0.00009
	(A0 * !A1 * B0 * !B1 * C1 * Y)	0.00001	0.00002	0.00002
	(A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00031	-0.00031	-0.00031
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00020	0.00020	0.00020
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00003	-0.00002	-0.00002
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00011	-0.00011	-0.00010
	(!A1 * !B0 * !B1 * !C1 * !Y)	0.00021	0.00021	0.00022
	(!A1 * !B0 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !B1 * !C1 * !Y)	-0.00011	-0.00011	-0.00010
	(!A0 * !A1 * B1 * C1 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !A1 * B1 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !A1 * B1 * !C1 * !Y)	0.00021	0.00021	0.00022
	(!A0 * !A1 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * !C1 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * !A1 * B1 * !C1 * !Y)	-0.00010	-0.00010	-0.00009
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	0.00021	0.00021	0.00022
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	-0.00010	-0.00010	-0.00009

Passive power(pJ) for C1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X0P7H7H	**(A1 * B1 * C0 * Y)**	-0.00000	-0.00000	0.00000
	(A1 * B1 * C0 * Y)	-0.00003	-0.00003	-0.00002
	(A1 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C0 * Y)	0.00034	0.00034	0.00034
	(A1 * B0 * !B1 * C0 * Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C0 * Y)	-0.00003	-0.00003	-0.00002
	(A1 * B0 * !B1 * C0 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * !B1 * C0 * Y)	0.00034	0.00034	0.00034
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00024	-0.00023	-0.00022
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !B1 * C0 * !Y)	0.00001	0.00002	0.00002
	(A1 * !B0 * !B1 * C0 * !Y)	0.00006	0.00006	0.00006
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00026	-0.00026	-0.00026
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00001	0.00002	0.00003
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00005	0.00006	0.00006
	(A0 * !A1 * B1 * C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C0 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * !A1 * B1 * C0 * Y)	0.00000	0.00000	0.00001
	(A0 * !A1 * B1 * C0 * Y)	0.00034	0.00034	0.00034
	(A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * !A1 * B0 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C0 * Y)	0.00034	0.00034	0.00034
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00024	-0.00023	-0.00022
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00006	0.00006	0.00006
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00026	-0.00026	-0.00026
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00002	0.00002	0.00003
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00005	0.00006	0.00006
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00024	-0.00023	-0.00022
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * C0 * !Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00026	-0.00026	-0.00026
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00004	0.00005	0.00006
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00024	-0.00023	-0.00022
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00005	0.00005	0.00006
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	-0.00026	-0.00026	-0.00026
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	0.00004	0.00005	0.00005

Passive power(pJ) for C1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X0P7H7H	**(A1 * B1 * C0 * Y)**	0.00000	0.00000	0.00000
	(A1 * B1 * C0 * Y)	0.00003	0.00003	0.00004
	(A1 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C0 * Y)	-0.00034	-0.00034	-0.00034
	(A1 * B0 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C0 * Y)	0.00003	0.00003	0.00004
	(A1 * B0 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * C0 * Y)	-0.00034	-0.00034	-0.00033
	(A1 * !B0 * !B1 * C0 * !Y)	0.00024	0.00024	0.00024
	(A1 * !B0 * !B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00006	-0.00006	-0.00006
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00026	0.00026	0.00026
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00006	-0.00006	-0.00005
	(A0 * !A1 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C0 * Y)	0.00003	0.00003	0.00003
	(A0 * !A1 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * C0 * Y)	-0.00034	-0.00034	-0.00033
	(A0 * !A1 * B0 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C0 * Y)	0.00002	0.00003	0.00003
	(A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00034	-0.00034	-0.00034
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00024	0.00024	0.00024
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00006	-0.00006	-0.00005
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00026	0.00026	0.00026
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !A1 * B1 * C0 * !Y)	0.00024	0.00024	0.00024
	(!A0 * !A1 * B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00026	0.00026	0.00026
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00024	0.00024	0.00024
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	0.00026	0.00026	0.00026
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	-0.00005	-0.00005	-0.00004

OA222X1H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

OA222 (Y = (A0 + A1) • (B0 + B1) • (C0 + C1))

Truth Table

INPUT						OUTPUT
A0	A1	B0	B1	C0	C1	Y
0	0	x	x	x	x	0
x	1	0	0	x	x	0
x	1	x	1	0	0	0
x	1	x	1	x	1	1
x	1	x	1	1	x	1
x	1	1	x	0	0	0
x	1	1	x	x	1	1
x	1	1	x	1	x	1
1	x	0	0	x	x	0
1	x	x	1	0	0	0
1	x	x	1	x	1	1
1	x	x	1	1	x	1
1	x	1	x	0	0	0
1	x	1	x	x	1	1
1	x	1	x	1	x	1

Footprint

Cell Name	Area
OA222X1H7H	3.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	**A1**	**B0**	**B1**	**C0**	**C1**	**Y**
OA222X1H7H	0.00077	0.00086	0.00083	0.00083	0.00088	0.00103	0.04140

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
OA222X1H7H	0.00000	0.02167	0.03344

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA222X1H7H	A0->Y (RR)	0.14777	0.33609	0.79121
	A1->Y (RR)	0.14354	0.33035	0.78266
	B0->Y (RR)	0.14172	0.33167	0.79593
	B1->Y (RR)	0.13507	0.32359	0.78369
	C0->Y (RR)	0.12576	0.31122	0.76324
	C1->Y (RR)	0.12412	0.30762	0.75493

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA222X1H7H	A0->Y (FF)	0.15022	0.32040	0.71805
	A1->Y (FF)	0.14736	0.31551	0.71338
	B0->Y (FF)	0.13646	0.30280	0.69161
	B1->Y (FF)	0.13106	0.29553	0.68391
	C0->Y (FF)	0.11984	0.28248	0.66221
	C1->Y (FF)	0.11994	0.27996	0.65957

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA222X1H7H	A0	0.00046	0.00051	0.00055
	A0	0.00019	0.00019	0.00019
	A0	-0.00015	-0.00015	-0.00015
	A0	0.00260	0.00264	0.00269
	A1	0.00044	0.00050	0.00056
	A1	0.00014	0.00014	0.00014
	A1	-0.00015	-0.00015	-0.00015
	A1	0.00244	0.00250	0.00255
	B0	0.00044	0.00050	0.00055
	B0	0.00019	0.00019	0.00019
	B0	-0.00009	-0.00009	-0.00007
	B0	0.00219	0.00224	0.00229
	B1	0.00045	0.00051	0.00056
	B1	0.00013	0.00014	0.00014
	B1	-0.00009	-0.00009	-0.00008
	B1	0.00205	0.00211	0.00216
	C0	0.00043	0.00048	0.00055
	C0	0.00019	0.00019	0.00019
	C0	-0.00002	-0.00002	-0.00001
	C0	0.00182	0.00187	0.00194
	C1	0.00041	0.00048	0.00056
	C1	0.00014	0.00014	0.00014
	C1	-0.00002	-0.00002	-0.00001
	C1	0.00172	0.00179	0.00187

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA222X1H7H	A0	0.00263	0.00269	0.00275
	A0	-0.00010	-0.00010	-0.00010
	A0	0.00016	0.00016	0.00016
	A0	0.00059	0.00064	0.00070
	A1	0.00250	0.00256	0.00263
	A1	-0.00005	-0.00005	-0.00004
	A1	0.00016	0.00016	0.00016
	A1	0.00062	0.00068	0.00074
	B0	0.00234	0.00240	0.00246
	B0	-0.00010	-0.00010	-0.00009
	B0	0.00008	0.00009	0.00013
	B0	0.00059	0.00066	0.00072
	B1	0.00217	0.00223	0.00229
	B1	-0.00005	-0.00005	-0.00004
	B1	0.00009	0.00009	0.00010
	B1	0.00059	0.00065	0.00071
	C0	0.00205	0.00211	0.00217
	C0	-0.00010	-0.00010	-0.00009
	C0	0.00001	0.00002	0.00003
	C0	0.00059	0.00065	0.00072
	C1	0.00194	0.00201	0.00209
	C1	-0.00005	-0.00005	-0.00004
	C1	0.00001	0.00002	0.00003
	C1	0.00058	0.00065	0.00073

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X1H7H	**(A1 * B1 * C1 * Y)**	-0.00009	-0.00008	-0.00007
	(A1 * B1 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C1 * Y)	0.00030	0.00030	0.00031
	(A1 * B1 * C0 * !C1 * Y)	-0.00009	-0.00008	-0.00007
	(A1 * B1 * C0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B1 * C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(A1 * B1 * C0 * !C1 * Y)	0.00030	0.00030	0.00031
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	-0.00009	-0.00008	-0.00007
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	0.00030	0.00030	0.00030
	(A1 * B0 * !B1 * C1 * Y)	-0.00009	-0.00008	-0.00007
	(A1 * B0 * !B1 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * !B1 * C1 * Y)	0.00030	0.00030	0.00031
	(A1 * B0 * !B1 * C0 * !C1 * Y)	-0.00009	-0.00008	-0.00007
	(A1 * B0 * !B1 * C0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * !B1 * C0 * !C1 * Y)	0.00030	0.00030	0.00030
	(A1 * !B0 * !B1 * !Y)	-0.00009	-0.00008	-0.00007
	(A1 * !B0 * !B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * !Y)	0.00030	0.00030	0.00030
	(!A1 * B1 * !C0 * !C1 * !Y)	-0.00011	-0.00011	-0.00011
	(!A1 * B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B1 * !C0 * !C1 * !Y)	0.00001	0.00002	0.00002
	(!A1 * B1 * !C0 * !C1 * !Y)	0.00024	0.00024	0.00025
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00011	-0.00011	-0.00011
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	0.00002	0.00002	0.00003
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	0.00024	0.00024	0.00025
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00011	-0.00011	-0.00011
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00025	0.00025	0.00025
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00011	-0.00011	-0.00011
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	0.00024	0.00025	0.00025
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00011	-0.00011	-0.00011
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00025	0.00025	0.00025

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X1H7H	**(A1 * B1 * C1 * Y)**	0.00009	0.00009	0.00009
	(A1 * B1 * C1 * Y)	0.00002	0.00002	0.00002
	(A1 * B1 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B1 * C1 * Y)	-0.00030	-0.00030	-0.00030
	(A1 * B1 * C0 * !C1 * Y)	0.00009	0.00009	0.00009
	(A1 * B1 * C0 * !C1 * Y)	0.00002	0.00002	0.00002
	(A1 * B1 * C0 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B1 * C0 * !C1 * Y)	-0.00030	-0.00030	-0.00030
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	0.00009	0.00009	0.00009
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	-0.00030	-0.00030	-0.00030
	(A1 * B0 * !B1 * C1 * Y)	0.00009	0.00009	0.00009
	(A1 * B0 * !B1 * C1 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !B1 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !B1 * C1 * Y)	-0.00030	-0.00030	-0.00030
	(A1 * B0 * !B1 * C0 * !C1 * Y)	0.00009	0.00009	0.00009
	(A1 * B0 * !B1 * C0 * !C1 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !B1 * C0 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !B1 * C0 * !C1 * Y)	-0.00030	-0.00030	-0.00030
	(A1 * !B0 * !B1 * !Y)	0.00009	0.00009	0.00009
	(A1 * !B0 * !B1 * !Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * !Y)	-0.00030	-0.00030	-0.00030
	(!A1 * B1 * !C0 * !C1 * !Y)	0.00011	0.00011	0.00011
	(!A1 * B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B1 * !C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * B1 * !C0 * !C1 * !Y)	-0.00024	-0.00023	-0.00020
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	0.00011	0.00011	0.00011
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00024	-0.00023	-0.00021
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00011	0.00011	0.00011
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00025	-0.00023	-0.00021
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	0.00011	0.00011	0.00011
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00025	-0.00023	-0.00021
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00011	0.00011	0.00011
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00025	-0.00023	-0.00021

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X1H7H	**(A0 * B1 * C1 * Y)**	-0.00000	0.00000	0.00000
	(A0 * B1 * C1 * Y)	-0.00004	-0.00003	-0.00003
	(A0 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B1 * C1 * Y)	0.00031	0.00032	0.00032
	(A0 * B1 * C0 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !C1 * Y)	0.00031	0.00031	0.00032
	(A0 * B1 * !C0 * !C1 * !Y)	-0.00013	-0.00012	-0.00011
	(A0 * B1 * !C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B1 * !C0 * !C1 * !Y)	0.00024	0.00024	0.00025
	(A0 * B0 * !B1 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C1 * Y)	-0.00004	-0.00003	-0.00003
	(A0 * B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C1 * Y)	0.00031	0.00031	0.00032
	(A0 * B0 * !B1 * C0 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C0 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * !B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C0 * !C1 * Y)	0.00031	0.00031	0.00032
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00013	-0.00012	-0.00011
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00023	0.00024	0.00024
	(A0 * !B0 * !B1 * C1 * !Y)	-0.00013	-0.00012	-0.00011
	(A0 * !B0 * !B1 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !B1 * C1 * !Y)	0.00024	0.00024	0.00025
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00013	-0.00012	-0.00011
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00023	0.00024	0.00024
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00013	-0.00012	-0.00011
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00024	0.00024	0.00024
	(!A0 * B1 * !C0 * !C1 * !Y)	-0.00015	-0.00015	-0.00015
	(!A0 * B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B1 * !C0 * !C1 * !Y)	0.00001	0.00002	0.00003
	(!A0 * B1 * !C0 * !C1 * !Y)	0.00018	0.00019	0.00019
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00015	-0.00015	-0.00015
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00002
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00019	0.00019	0.00020
	(!A0 * !B0 * !B1 * C1 * !Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !B0 * !B1 * C1 * !Y)	0.00019	0.00020	0.00020
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00019	0.00020	0.00020
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00019	0.00020	0.00020

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X1H7H	**(A0 * B1 * C1 * Y)**	-0.00000	0.00000	0.00000
	(A0 * B1 * C1 * Y)	0.00003	0.00003	0.00004
	(A0 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * C1 * Y)	-0.00032	-0.00031	-0.00031
	(A0 * B1 * C0 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !C1 * Y)	0.00003	0.00003	0.00004
	(A0 * B1 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * C0 * !C1 * Y)	-0.00032	-0.00031	-0.00031
	(A0 * B1 * !C0 * !C1 * !Y)	0.00013	0.00013	0.00013
	(A0 * B1 * !C0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * B1 * !C0 * !C1 * !Y)	-0.00024	-0.00024	-0.00024
	(A0 * B0 * !B1 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * !B1 * C1 * Y)	0.00003	0.00003	0.00004
	(A0 * B0 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !B1 * C1 * Y)	-0.00032	-0.00031	-0.00031
	(A0 * B0 * !B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C0 * !C1 * Y)	0.00003	0.00003	0.00004
	(A0 * B0 * !B1 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !B1 * C0 * !C1 * Y)	-0.00032	-0.00031	-0.00031
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00012	0.00013	0.00013
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00024	-0.00024	-0.00023
	(A0 * !B0 * !B1 * C1 * !Y)	0.00012	0.00013	0.00013
	(A0 * !B0 * !B1 * C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * !B1 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !B0 * !B1 * C1 * !Y)	-0.00024	-0.00024	-0.00024
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00012	0.00013	0.00013
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00024	-0.00024	-0.00023
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00013	0.00013	0.00013
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00024	-0.00024	-0.00024
	(!A0 * B1 * !C0 * !C1 * !Y)	0.00015	0.00015	0.00015
	(!A0 * B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B1 * !C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * B1 * !C0 * !C1 * !Y)	-0.00019	-0.00018	-0.00016
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00015	0.00015	0.00015
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00019	-0.00018	-0.00016
	(!A0 * !B0 * !B1 * C1 * !Y)	0.00015	0.00015	0.00015
	(!A0 * !B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * C1 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * C1 * !Y)	-0.00020	-0.00018	-0.00017
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00015	0.00015	0.00015
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00020	-0.00018	-0.00017
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00015	0.00015	0.00015
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00020	-0.00018	-0.00015

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X1H7H	**(A1 * B1 * C1 * Y)**	-0.00009	-0.00009	-0.00007
	(A1 * B1 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C1 * Y)	0.00030	0.00030	0.00030
	(A1 * B1 * C0 * !C1 * Y)	-0.00009	-0.00009	-0.00007
	(A1 * B1 * C0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C0 * !C1 * Y)	0.00030	0.00030	0.00031
	(A1 * !B1 * !C0 * !C1 * !Y)	-0.00015	-0.00015	-0.00015
	(A1 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00002
	(A1 * !B1 * !C0 * !C1 * !Y)	0.00022	0.00023	0.00023
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	-0.00012	-0.00012	-0.00011
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	0.00026	0.00027	0.00027
	(A0 * !A1 * B1 * C1 * Y)	-0.00009	-0.00009	-0.00007
	(A0 * !A1 * B1 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B1 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C1 * Y)	0.00030	0.00030	0.00030
	(A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00009	-0.00009	-0.00007
	(A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B1 * C0 * !C1 * Y)	0.00000	0.00001	0.00002
	(A0 * !A1 * B1 * C0 * !C1 * Y)	0.00030	0.00030	0.00030
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00015	-0.00015	-0.00015
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00002
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00022	0.00023	0.00023
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00013	-0.00013	-0.00011
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * C1 * !Y)	0.00003	0.00003	0.00004
	(!A0 * !A1 * B1 * C1 * !Y)	0.00007	0.00008	0.00008
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00013	-0.00013	-0.00011
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00003	0.00004	0.00004
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	-0.00013	-0.00013	-0.00011
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	0.00004	0.00004	0.00005
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * !B1 * C1 * !Y)	-0.00016	-0.00015	-0.00015
	(!A0 * !A1 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B1 * C1 * !Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !B1 * C1 * !Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	-0.00016	-0.00016	-0.00015
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	0.00003	0.00004	0.00004
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	0.00008	0.00008	0.00009
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00004	0.00004	0.00005
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00008	0.00008	0.00009

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X1H7H	**(A1 * B1 * C1 * Y)**	0.00009	0.00010	0.00010
	(A1 * B1 * C1 * Y)	0.00002	0.00002	0.00002
	(A1 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C1 * Y)	-0.00030	-0.00030	-0.00030
	(A1 * B1 * C0 * !C1 * Y)	0.00009	0.00010	0.00010
	(A1 * B1 * C0 * !C1 * Y)	0.00002	0.00002	0.00002
	(A1 * B1 * C0 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B1 * C0 * !C1 * Y)	-0.00030	-0.00030	-0.00030
	(A1 * !B1 * !C0 * !C1 * !Y)	0.00015	0.00015	0.00015
	(A1 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00002
	(A1 * !B1 * !C0 * !C1 * !Y)	-0.00002	-0.00001	-0.00001
	(A1 * !B1 * !C0 * !C1 * !Y)	-0.00023	-0.00021	-0.00019
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	0.00012	0.00012	0.00012
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	-0.00027	-0.00027	-0.00026
	(A0 * !A1 * B1 * C1 * Y)	0.00009	0.00010	0.00010
	(A0 * !A1 * B1 * C1 * Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * B1 * C1 * Y)	-0.00000	-0.00000	0.00001
	(A0 * !A1 * B1 * C1 * Y)	-0.00030	-0.00030	-0.00030
	(A0 * !A1 * B1 * C0 * !C1 * Y)	0.00009	0.00010	0.00010
	(A0 * !A1 * B1 * C0 * !C1 * Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00030	-0.00030	-0.00029
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00015	0.00015	0.00015
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00002	-0.00001	-0.00001
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00023	-0.00021	-0.00018
	(!A0 * !A1 * B1 * C1 * !Y)	0.00013	0.00014	0.00014
	(!A0 * !A1 * B1 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00008	-0.00008	-0.00007
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00013	0.00014	0.00014
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	-0.00005	-0.00004	-0.00004
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	-0.00008	-0.00008	-0.00007
	(!A0 * !A1 * !B1 * C1 * !Y)	0.00015	0.00016	0.00016
	(!A0 * !A1 * !B1 * C1 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !A1 * !B1 * C1 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !B1 * C1 * !Y)	-0.00008	-0.00008	-0.00007
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	0.00016	0.00016	0.00016
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	-0.00009	-0.00008	-0.00008
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00016	0.00016	0.00016
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00005	-0.00004	-0.00004
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00008	-0.00008	-0.00008

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X1H7H	**(A1 * B0 * C1 * Y)**	-0.00000	-0.00000	0.00000
	(A1 * B0 * C1 * Y)	-0.00003	-0.00003	-0.00002
	(A1 * B0 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C1 * Y)	0.00033	0.00033	0.00033
	(A1 * B0 * C0 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !C1 * Y)	-0.00003	-0.00003	-0.00002
	(A1 * B0 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !C1 * Y)	0.00032	0.00033	0.00033
	(A1 * B0 * !C0 * !C1 * !Y)	-0.00011	-0.00011	-0.00009
	(A1 * B0 * !C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !C0 * !C1 * !Y)	0.00025	0.00026	0.00026
	(A1 * !B0 * !C0 * !C1 * !Y)	-0.00014	-0.00014	-0.00014
	(A1 * !B0 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !C0 * !C1 * !Y)	0.00023	0.00023	0.00024
	(A0 * !A1 * B0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * B0 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * B0 * C1 * Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * B0 * C1 * Y)	0.00032	0.00033	0.00033
	(A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * B0 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C0 * !C1 * Y)	0.00033	0.00033	0.00033
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00011	-0.00011	-0.00010
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00026	0.00026	0.00026
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00014	-0.00014	-0.00014
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00023	0.00023	0.00023
	(!A0 * !A1 * B0 * C1 * !Y)	-0.00012	-0.00012	-0.00010
	(!A0 * !A1 * B0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * C1 * !Y)	0.00004	0.00004	0.00005
	(!A0 * !A1 * B0 * C1 * !Y)	0.00005	0.00006	0.00006
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00012	-0.00012	-0.00010
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00004	0.00004	0.00005
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00005	0.00006	0.00006
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00013	-0.00012	-0.00011
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00004	0.00005	0.00005
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !B0 * C1 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !A1 * !B0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * C1 * !Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !B0 * C1 * !Y)	0.00005	0.00006	0.00006
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	0.00004	0.00004	0.00005
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	0.00005	0.00006	0.00006
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00015	-0.00015	-0.00014
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00005	0.00005	0.00006
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00005	0.00006	0.00006

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X1H7H	**(A1 * B0 * C1 * Y)**	-0.00000	0.00000	0.00000
	(A1 * B0 * C1 * Y)	0.00002	0.00003	0.00003
	(A1 * B0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C1 * Y)	-0.00033	-0.00033	-0.00032
	(A1 * B0 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !C1 * Y)	0.00002	0.00003	0.00003
	(A1 * B0 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * !C1 * Y)	-0.00033	-0.00033	-0.00032
	(A1 * B0 * !C0 * !C1 * !Y)	0.00011	0.00011	0.00011
	(A1 * B0 * !C0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * !C1 * !Y)	-0.00026	-0.00026	-0.00025
	(A1 * !B0 * !C0 * !C1 * !Y)	0.00014	0.00014	0.00014
	(A1 * !B0 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !C0 * !C1 * !Y)	-0.00023	-0.00022	-0.00020
	(A0 * !A1 * B0 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C1 * Y)	0.00003	0.00003	0.00003
	(A0 * !A1 * B0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * C1 * Y)	-0.00033	-0.00033	-0.00032
	(A0 * !A1 * B0 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C0 * !C1 * Y)	0.00003	0.00003	0.00003
	(A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00033	-0.00033	-0.00033
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00011	0.00011	0.00011
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00026	-0.00026	-0.00026
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00014	0.00014	0.00014
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00023	-0.00021	-0.00019
	(!A0 * !A1 * B0 * C1 * !Y)	0.00012	0.00013	0.00013
	(!A0 * !A1 * B0 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * C1 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * B0 * C1 * !Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00012	0.00013	0.00013
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00012	0.00012	0.00013
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !A1 * !B0 * C1 * !Y)	0.00014	0.00015	0.00015
	(!A0 * !A1 * !B0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * C1 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !B0 * C1 * !Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	0.00014	0.00015	0.00015
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00014	0.00015	0.00015
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00006	-0.00005	-0.00005
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00006	-0.00006	-0.00005

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X1H7H	**(A1 * B1 * C1 * Y)**	-0.00009	-0.00008	-0.00007
	(A1 * B1 * C1 * Y)	-0.00003	-0.00002	-0.00002
	(A1 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C1 * Y)	0.00030	0.00030	0.00030
	(A1 * B0 * !B1 * C1 * Y)	-0.00009	-0.00009	-0.00007
	(A1 * B0 * !B1 * C1 * Y)	-0.00002	-0.00002	-0.00001
	(A1 * B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C1 * Y)	0.00030	0.00030	0.00030
	(A1 * !B0 * !B1 * C1 * !Y)	-0.00022	-0.00021	-0.00020
	(A1 * !B0 * !B1 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !B1 * C1 * !Y)	0.00001	0.00002	0.00002
	(A1 * !B0 * !B1 * C1 * !Y)	0.00007	0.00007	0.00008
	(A1 * !B0 * !B1 * !C1 * !Y)	-0.00024	-0.00024	-0.00024
	(A1 * !B0 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !B1 * !C1 * !Y)	0.00007	0.00007	0.00008
	(A0 * !A1 * B1 * C1 * Y)	-0.00009	-0.00008	-0.00007
	(A0 * !A1 * B1 * C1 * Y)	-0.00003	-0.00002	-0.00002
	(A0 * !A1 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C1 * Y)	0.00030	0.00030	0.00030
	(A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00009	-0.00008	-0.00007
	(A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * !A1 * B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C1 * Y)	0.00030	0.00030	0.00030
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00022	-0.00021	-0.00020
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00007	0.00007	0.00007
	(!A1 * !B0 * !B1 * !C1 * !Y)	-0.00024	-0.00024	-0.00024
	(!A1 * !B0 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * !C1 * !Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !B1 * !C1 * !Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00022	-0.00021	-0.00020
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * C1 * !Y)	0.00006	0.00006	0.00007
	(!A0 * !A1 * B1 * !C1 * !Y)	-0.00024	-0.00024	-0.00024
	(!A0 * !A1 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * !C1 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !A1 * B1 * !C1 * !Y)	0.00006	0.00006	0.00007
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00022	-0.00021	-0.00020
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00006	0.00006	0.00007
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	-0.00024	-0.00024	-0.00024
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	0.00006	0.00006	0.00007

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X1H7H	**(A1 * B1 * C1 * Y)**	0.00009	0.00009	0.00010
	(A1 * B1 * C1 * Y)	0.00002	0.00002	0.00003
	(A1 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C1 * Y)	-0.00030	-0.00030	-0.00029
	(A1 * B0 * !B1 * C1 * Y)	0.00009	0.00010	0.00010
	(A1 * B0 * !B1 * C1 * Y)	0.00001	0.00002	0.00002
	(A1 * B0 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * C1 * Y)	-0.00030	-0.00030	-0.00029
	(A1 * !B0 * !B1 * C1 * !Y)	0.00022	0.00022	0.00022
	(A1 * !B0 * !B1 * C1 * !Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !B1 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * !B0 * !B1 * C1 * !Y)	-0.00007	-0.00007	-0.00007
	(A1 * !B0 * !B1 * !C1 * !Y)	0.00024	0.00024	0.00025
	(A1 * !B0 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * !B0 * !B1 * !C1 * !Y)	-0.00007	-0.00007	-0.00007
	(A0 * !A1 * B1 * C1 * Y)	0.00009	0.00009	0.00010
	(A0 * !A1 * B1 * C1 * Y)	0.00002	0.00002	0.00003
	(A0 * !A1 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * C1 * Y)	-0.00030	-0.00030	-0.00029
	(A0 * !A1 * B0 * !B1 * C1 * Y)	0.00009	0.00009	0.00010
	(A0 * !A1 * B0 * !B1 * C1 * Y)	0.00001	0.00002	0.00002
	(A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00030	-0.00030	-0.00029
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00022	0.00022	0.00022
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00007	-0.00007	-0.00007
	(!A1 * !B0 * !B1 * !C1 * !Y)	0.00024	0.00024	0.00025
	(!A1 * !B0 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * !B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !B1 * !C1 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * B1 * C1 * !Y)	0.00022	0.00022	0.00022
	(!A0 * !A1 * B1 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00007	-0.00006	-0.00006
	(!A0 * !A1 * B1 * !C1 * !Y)	0.00024	0.00024	0.00025
	(!A0 * !A1 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * !C1 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00022	0.00022	0.00022
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00007	-0.00006	-0.00006
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	0.00024	0.00024	0.00025
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for C1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X1H7H	**(A1 * B1 * C0 * Y)**	-0.00000	-0.00000	0.00000
	(A1 * B1 * C0 * Y)	-0.00003	-0.00003	-0.00002
	(A1 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C0 * Y)	0.00039	0.00039	0.00039
	(A1 * B0 * !B1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !B1 * C0 * Y)	-0.00003	-0.00003	-0.00002
	(A1 * B0 * !B1 * C0 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * !B1 * C0 * Y)	0.00039	0.00039	0.00039
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00029	-0.00028	-0.00027
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !B1 * C0 * !Y)	0.00002	0.00002	0.00003
	(A1 * !B0 * !B1 * C0 * !Y)	0.00005	0.00006	0.00006
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00032	-0.00031	-0.00031
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00002	0.00002	0.00003
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00005	0.00006	0.00006
	(A0 * !A1 * B1 * C0 * Y)	-0.00000	0.00000	0.00001
	(A0 * !A1 * B1 * C0 * Y)	-0.00004	-0.00003	-0.00002
	(A0 * !A1 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C0 * Y)	0.00039	0.00039	0.00039
	(A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * B0 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C0 * Y)	0.00039	0.00039	0.00039
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00029	-0.00028	-0.00027
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00001	0.00002	0.00003
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00005	0.00006	0.00006
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00032	-0.00031	-0.00031
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00029	-0.00028	-0.00027
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * C0 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !A1 * B1 * C0 * !Y)	0.00004	0.00005	0.00005
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00031	-0.00031	-0.00031
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00004	0.00005	0.00005
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00029	-0.00028	-0.00027
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00005	0.00005	0.00006
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	-0.00031	-0.00031	-0.00031
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	0.00005	0.00005	0.00005

Passive power(pJ) for C1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X1H7H	**(A1 * B1 * C0 * Y)**	0.00000	0.00000	0.00000
	(A1 * B1 * C0 * Y)	0.00003	0.00003	0.00004
	(A1 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C0 * Y)	-0.00039	-0.00039	-0.00039
	(A1 * B0 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C0 * Y)	0.00003	0.00003	0.00003
	(A1 * B0 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * C0 * Y)	-0.00039	-0.00039	-0.00039
	(A1 * !B0 * !B1 * C0 * !Y)	0.00029	0.00029	0.00029
	(A1 * !B0 * !B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00006	-0.00006	-0.00005
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00031	0.00031	0.00032
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00006	-0.00006	-0.00005
	(A0 * !A1 * B1 * C0 * Y)	-0.00001	-0.00000	0.00000
	(A0 * !A1 * B1 * C0 * Y)	0.00003	0.00003	0.00004
	(A0 * !A1 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * C0 * Y)	-0.00039	-0.00039	-0.00039
	(A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C0 * Y)	0.00003	0.00003	0.00004
	(A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00039	-0.00039	-0.00039
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00029	0.00029	0.00029
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00006	-0.00006	-0.00005
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00031	0.00031	0.00032
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * B1 * C0 * !Y)	0.00029	0.00029	0.00029
	(!A0 * !A1 * B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00031	0.00031	0.00032
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00029	0.00029	0.00029
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	0.00031	0.00031	0.00032
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	-0.00005	-0.00005	-0.00005

OA222X1P4H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

OA222 (Y = (A0 + A1) • (B0 + B1) • (C0 + C1))

Truth Table

INPUT						OUTPUT
A0	A1	B0	B1	C0	C1	Y
0	0	x	x	x	x	0
x	1	0	0	x	x	0
x	1	x	1	0	0	0
x	1	x	1	x	1	1
x	1	x	1	1	x	1
x	1	1	x	0	0	0
x	1	1	x	x	1	1
x	1	1	x	1	x	1
1	x	0	0	x	x	0
1	x	x	1	0	0	0
1	x	x	1	x	1	1
1	x	x	1	1	x	1
1	x	1	x	0	0	0
1	x	1	x	x	1	1
1	x	1	x	1	x	1

Footprint

Cell Name	Area
OA222X1P4H7H	3.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	**A1**	**B0**	**B1**	**C0**	**C1**	**Y**
OA222X1P4H7H	0.00089	0.00091	0.00085	0.00086	0.00082	0.00095	0.04716

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
OA222X1P4H7H	0.00000	0.02397	0.03885

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA222X1P4H7H	A0->Y (RR)	0.15530	0.34415	0.80043
	A1->Y (RR)	0.14976	0.33757	0.79172
	B0->Y (RR)	0.14628	0.33810	0.80559
	B1->Y (RR)	0.13998	0.33060	0.79469
	C0->Y (RR)	0.12560	0.31267	0.76655
	C1->Y (RR)	0.12238	0.30775	0.75702

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA222X1P4H7H	A0->Y (FF)	0.15748	0.32908	0.73067
	A1->Y (FF)	0.15372	0.32353	0.72574
	B0->Y (FF)	0.14157	0.30998	0.70406
	B1->Y (FF)	0.13725	0.30390	0.69749
	C0->Y (FF)	0.12016	0.28430	0.66687
	C1->Y (FF)	0.11884	0.28098	0.66410

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA222X1P4H7H	A0	0.00054	0.00060	0.00067
	A0	0.00018	0.00018	0.00018
	A0	-0.00015	-0.00014	-0.00014
	A0	0.00269	0.00275	0.00281
	A1	0.00053	0.00061	0.00068
	A1	0.00014	0.00014	0.00014
	A1	-0.00015	-0.00014	-0.00014
	A1	0.00254	0.00261	0.00268
	B0	0.00055	0.00061	0.00067
	B0	0.00018	0.00018	0.00018
	B0	-0.00010	-0.00009	-0.00006
	B0	0.00230	0.00236	0.00242
	B1	0.00055	0.00061	0.00068
	B1	0.00012	0.00014	0.00014
	B1	-0.00009	-0.00009	-0.00007
	B1	0.00215	0.00221	0.00227
	C0	0.00054	0.00059	0.00066
	C0	0.00018	0.00018	0.00018
	C0	-0.00001	-0.00001	0.00000
	C0	0.00194	0.00199	0.00206
	C1	0.00053	0.00060	0.00067
	C1	0.00013	0.00014	0.00014
	C1	-0.00001	-0.00001	0.00000
	C1	0.00180	0.00187	0.00194

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA222X1P4H7H	A0	0.00273	0.00280	0.00288
	A0	-0.00009	-0.00009	-0.00007
	A0	0.00015	0.00016	0.00016
	A0	0.00067	0.00074	0.00081
	A1	0.00259	0.00266	0.00274
	A1	-0.00005	-0.00005	-0.00001
	A1	0.00015	0.00015	0.00016
	A1	0.00070	0.00076	0.00084
	B0	0.00242	0.00249	0.00256
	B0	-0.00009	-0.00009	-0.00008
	B0	0.00006	0.00009	0.00012
	B0	0.00067	0.00074	0.00081
	B1	0.00228	0.00234	0.00241
	B1	-0.00005	-0.00005	-0.00003
	B1	0.00007	0.00009	0.00009
	B1	0.00070	0.00077	0.00084
	C0	0.00205	0.00212	0.00218
	C0	-0.00009	-0.00009	-0.00008
	C0	0.00001	0.00001	0.00002
	C0	0.00058	0.00065	0.00071
	C1	0.00193	0.00200	0.00208
	C1	-0.00004	-0.00004	-0.00004
	C1	0.00001	0.00001	0.00002
	C1	0.00062	0.00069	0.00076

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X1P4H7H	**(A1 * B1 * C1 * Y)**	-0.00009	-0.00008	-0.00007
	(A1 * B1 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C1 * Y)	0.00033	0.00033	0.00034
	(A1 * B1 * C0 * !C1 * Y)	-0.00009	-0.00008	-0.00007
	(A1 * B1 * C0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C0 * !C1 * Y)	0.00033	0.00034	0.00034
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	-0.00015	-0.00014	-0.00013
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	0.00027	0.00028	0.00028
	(A1 * B0 * !B1 * C1 * Y)	-0.00009	-0.00008	-0.00007
	(A1 * B0 * !B1 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C1 * Y)	0.00033	0.00034	0.00034
	(A1 * B0 * !B1 * C0 * !C1 * Y)	-0.00009	-0.00008	-0.00007
	(A1 * B0 * !B1 * C0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C0 * !C1 * Y)	0.00033	0.00033	0.00034
	(A1 * !B0 * !B1 * !Y)	-0.00015	-0.00014	-0.00013
	(A1 * !B0 * !B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00001
	(A1 * !B0 * !B1 * !Y)	0.00028	0.00028	0.00028
	(!A1 * B1 * !C0 * !C1 * !Y)	-0.00017	-0.00017	-0.00017
	(!A1 * B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B1 * !C0 * !C1 * !Y)	0.00001	0.00002	0.00002
	(!A1 * B1 * !C0 * !C1 * !Y)	0.00023	0.00023	0.00023
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00017	-0.00017	-0.00017
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00002
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	0.00023	0.00023	0.00023
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00017	-0.00016	-0.00016
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00023	0.00023	0.00024
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00017	-0.00016	-0.00016
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	0.00000
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	0.00023	0.00023	0.00024
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00017	-0.00016	-0.00016
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00001	0.00002	0.00017
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00023	0.00024	0.00026

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X1P4H7H	**(A1 * B1 * C1 * Y)**	0.00008	0.00009	0.00009
	(A1 * B1 * C1 * Y)	0.00002	0.00002	0.00002
	(A1 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C1 * Y)	-0.00033	-0.00033	-0.00033
	(A1 * B1 * C0 * !C1 * Y)	0.00009	0.00009	0.00009
	(A1 * B1 * C0 * !C1 * Y)	0.00002	0.00002	0.00002
	(A1 * B1 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C0 * !C1 * Y)	-0.00033	-0.00033	-0.00033
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	0.00014	0.00015	0.00015
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	-0.00028	-0.00028	-0.00027
	(A1 * B0 * !B1 * C1 * Y)	0.00009	0.00009	0.00009
	(A1 * B0 * !B1 * C1 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * C1 * Y)	-0.00033	-0.00033	-0.00033
	(A1 * B0 * !B1 * C0 * !C1 * Y)	0.00009	0.00009	0.00009
	(A1 * B0 * !B1 * C0 * !C1 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !B1 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * C0 * !C1 * Y)	-0.00033	-0.00033	-0.00033
	(A1 * !B0 * !B1 * !Y)	0.00014	0.00014	0.00015
	(A1 * !B0 * !B1 * !Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !B1 * !Y)	-0.00001	-0.00000	0.00000
	(A1 * !B0 * !B1 * !Y)	-0.00028	-0.00027	-0.00027
	(!A1 * B1 * !C0 * !C1 * !Y)	0.00017	0.00017	0.00017
	(!A1 * B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B1 * !C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * B1 * !C0 * !C1 * !Y)	-0.00023	-0.00021	-0.00018
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	0.00017	0.00017	0.00017
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00002	-0.00001	-0.00001
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00023	-0.00021	-0.00019
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00016	0.00016	0.00017
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00023	-0.00022	-0.00019
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	0.00016	0.00016	0.00017
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00023	-0.00022	-0.00020
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00016	0.00016	0.00017
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00023	-0.00022	-0.00019

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X1P4H7H	**(A0 * B1 * C1 * Y)**	-0.00000	0.00000	0.00000
	(A0 * B1 * C1 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B1 * C1 * Y)	0.00034	0.00034	0.00035
	(A0 * B1 * C0 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !C1 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !C1 * Y)	0.00034	0.00034	0.00035
	(A0 * B1 * !C0 * !C1 * !Y)	-0.00015	-0.00015	-0.00013
	(A0 * B1 * !C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B1 * !C0 * !C1 * !Y)	0.00000	0.00001	0.00002
	(A0 * B1 * !C0 * !C1 * !Y)	0.00023	0.00024	0.00024
	(A0 * B0 * !B1 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C1 * Y)	0.00034	0.00034	0.00035
	(A0 * B0 * !B1 * C0 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * !B1 * C0 * !C1 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * B0 * !B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00001
	(A0 * B0 * !B1 * C0 * !C1 * Y)	0.00034	0.00034	0.00035
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00015	-0.00015	-0.00013
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00001	0.00002
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00023	0.00024	0.00024
	(A0 * !B0 * !B1 * C1 * !Y)	-0.00015	-0.00015	-0.00013
	(A0 * !B0 * !B1 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * !B1 * C1 * !Y)	0.00000	0.00001	0.00002
	(A0 * !B0 * !B1 * C1 * !Y)	0.00023	0.00024	0.00024
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00015	-0.00015	-0.00013
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00023	0.00024	0.00024
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00016	-0.00015	-0.00014
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00024	0.00024	0.00024
	(!A0 * B1 * !C0 * !C1 * !Y)	-0.00018	-0.00018	-0.00018
	(!A0 * B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00002
	(!A0 * B1 * !C0 * !C1 * !Y)	0.00019	0.00020	0.00020
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00018	-0.00017	-0.00017
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !B0 * !B1 * C1 * !Y)	-0.00018	-0.00017	-0.00017
	(!A0 * !B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * C1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !B0 * !B1 * C1 * !Y)	0.00019	0.00020	0.00020
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00018	-0.00017	-0.00017
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00020	0.00020	0.00021

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X1P4H7H	**(A0 * B1 * C1 * Y)**	0.00000	0.00000	0.00000
	(A0 * B1 * C1 * Y)	0.00002	0.00003	0.00003
	(A0 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * C1 * Y)	-0.00035	-0.00034	-0.00034
	(A0 * B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !C1 * Y)	0.00002	0.00003	0.00003
	(A0 * B1 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * C0 * !C1 * Y)	-0.00035	-0.00034	-0.00034
	(A0 * B1 * !C0 * !C1 * !Y)	0.00015	0.00015	0.00015
	(A0 * B1 * !C0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * B1 * !C0 * !C1 * !Y)	-0.00001	-0.00000	0.00000
	(A0 * B1 * !C0 * !C1 * !Y)	-0.00024	-0.00024	-0.00023
	(A0 * B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C1 * Y)	0.00003	0.00003	0.00003
	(A0 * B0 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !B1 * C1 * Y)	-0.00035	-0.00034	-0.00034
	(A0 * B0 * !B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C0 * !C1 * Y)	0.00003	0.00003	0.00004
	(A0 * B0 * !B1 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !B1 * C0 * !C1 * Y)	-0.00035	-0.00034	-0.00034
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00015	0.00015	0.00015
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00000	-0.00000
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00024	-0.00024	-0.00023
	(A0 * !B0 * !B1 * C1 * !Y)	0.00015	0.00015	0.00015
	(A0 * !B0 * !B1 * C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * !B1 * C1 * !Y)	-0.00001	-0.00000	-0.00000
	(A0 * !B0 * !B1 * C1 * !Y)	-0.00024	-0.00024	-0.00023
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00015	0.00015	0.00015
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00001	-0.00000	-0.00000
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00024	-0.00024	-0.00023
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00015	0.00015	0.00016
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00024	-0.00024	-0.00024
	(!A0 * B1 * !C0 * !C1 * !Y)	0.00018	0.00018	0.00018
	(!A0 * B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B1 * !C0 * !C1 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * B1 * !C0 * !C1 * !Y)	-0.00020	-0.00018	-0.00016
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00018	0.00018	0.00018
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00020	-0.00018	-0.00017
	(!A0 * !B0 * !B1 * C1 * !Y)	0.00017	0.00017	0.00018
	(!A0 * !B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B0 * !B1 * C1 * !Y)	-0.00020	-0.00018	-0.00016
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00017	0.00017	0.00017
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00020	-0.00019	-0.00017
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00017	0.00017	0.00018
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00020	-0.00018	-0.00016

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X1P4H7H	**(A1 * B1 * C1 * Y)**	-0.00009	-0.00008	-0.00007
	(A1 * B1 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C1 * Y)	0.00030	0.00030	0.00031
	(A1 * B1 * C0 * !C1 * Y)	-0.00009	-0.00008	-0.00007
	(A1 * B1 * C0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C0 * !C1 * Y)	0.00030	0.00030	0.00031
	(A1 * !B1 * !C0 * !C1 * !Y)	-0.00014	-0.00014	-0.00014
	(A1 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00002
	(A1 * !B1 * !C0 * !C1 * !Y)	0.00023	0.00023	0.00024
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	-0.00012	-0.00011	-0.00010
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	0.00026	0.00027	0.00027
	(A0 * !A1 * B1 * C1 * Y)	-0.00009	-0.00008	-0.00006
	(A0 * !A1 * B1 * C1 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * !A1 * B1 * C1 * Y)	0.00000	0.00000	0.00001
	(A0 * !A1 * B1 * C1 * Y)	0.00030	0.00030	0.00030
	(A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00009	-0.00008	-0.00007
	(A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * !A1 * B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C0 * !C1 * Y)	0.00030	0.00030	0.00031
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00014	-0.00014	-0.00014
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00023	0.00023	0.00023
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00013	-0.00012	-0.00011
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * C1 * !Y)	0.00003	0.00003	0.00004
	(!A0 * !A1 * B1 * C1 * !Y)	0.00009	0.00009	0.00010
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00013	-0.00012	-0.00011
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00003	0.00003	0.00004
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00009	0.00009	0.00009
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	-0.00013	-0.00012	-0.00011
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	0.00004	0.00004	0.00005
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	0.00009	0.00010	0.00010
	(!A0 * !A1 * !B1 * C1 * !Y)	-0.00015	-0.00015	-0.00014
	(!A0 * !A1 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B1 * C1 * !Y)	0.00003	0.00003	0.00004
	(!A0 * !A1 * !B1 * C1 * !Y)	0.00009	0.00010	0.00010
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	-0.00015	-0.00015	-0.00014
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	0.00009	0.00009	0.00009
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00010	0.00010	0.00010

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X1P4H7H	**(A1 * B1 * C1 * Y)**	0.00009	0.00009	0.00009
	(A1 * B1 * C1 * Y)	0.00002	0.00002	0.00002
	(A1 * B1 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B1 * C1 * Y)	-0.00030	-0.00030	-0.00030
	(A1 * B1 * C0 * !C1 * Y)	0.00009	0.00009	0.00009
	(A1 * B1 * C0 * !C1 * Y)	0.00002	0.00002	0.00002
	(A1 * B1 * C0 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B1 * C0 * !C1 * Y)	-0.00030	-0.00030	-0.00030
	(A1 * !B1 * !C0 * !C1 * !Y)	0.00014	0.00014	0.00015
	(A1 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00002
	(A1 * !B1 * !C0 * !C1 * !Y)	-0.00002	-0.00001	-0.00001
	(A1 * !B1 * !C0 * !C1 * !Y)	-0.00024	-0.00022	-0.00020
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	0.00012	0.00012	0.00012
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	-0.00027	-0.00027	-0.00026
	(A0 * !A1 * B1 * C1 * Y)	0.00008	0.00009	0.00009
	(A0 * !A1 * B1 * C1 * Y)	0.00001	0.00002	0.00002
	(A0 * !A1 * B1 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * B1 * C1 * Y)	-0.00030	-0.00030	-0.00030
	(A0 * !A1 * B1 * C0 * !C1 * Y)	0.00008	0.00009	0.00009
	(A0 * !A1 * B1 * C0 * !C1 * Y)	0.00001	0.00002	0.00002
	(A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00030	-0.00030	-0.00030
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00014	0.00015	0.00015
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00023	-0.00022	-0.00020
	(!A0 * !A1 * B1 * C1 * !Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * B1 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	-0.00010	-0.00010	-0.00009
	(!A0 * !A1 * !B1 * C1 * !Y)	0.00015	0.00015	0.00015
	(!A0 * !A1 * !B1 * C1 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !A1 * !B1 * C1 * !Y)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * !B1 * C1 * !Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	0.00014	0.00015	0.00015
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	0.00000	0.00001	0.00002
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00015	0.00015	0.00015
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00010	-0.00010	-0.00010

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X1P4H7H	**(A1 * B0 * C1 * Y)**	-0.00000	0.00000	0.00000
	(A1 * B0 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C1 * Y)	0.00030	0.00030	0.00031
	(A1 * B0 * C0 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * C0 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !C1 * Y)	0.00030	0.00030	0.00031
	(A1 * B0 * !C0 * !C1 * !Y)	-0.00012	-0.00011	-0.00010
	(A1 * B0 * !C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(A1 * B0 * !C0 * !C1 * !Y)	0.00023	0.00024	0.00024
	(A1 * !B0 * !C0 * !C1 * !Y)	-0.00014	-0.00014	-0.00014
	(A1 * !B0 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !C0 * !C1 * !Y)	0.00020	0.00020	0.00021
	(A0 * !A1 * B0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * B0 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * B0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C1 * Y)	0.00030	0.00031	0.00031
	(A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * B0 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C0 * !C1 * Y)	0.00030	0.00031	0.00031
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00012	-0.00011	-0.00010
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00023	0.00024	0.00024
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00014	-0.00014	-0.00014
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00000	0.00001	0.00002
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00020	0.00020	0.00021
	(!A0 * !A1 * B0 * C1 * !Y)	-0.00013	-0.00012	-0.00011
	(!A0 * !A1 * B0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * C1 * !Y)	0.00003	0.00003	0.00004
	(!A0 * !A1 * B0 * C1 * !Y)	0.00006	0.00006	0.00007
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00012	-0.00012	-0.00011
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00003	0.00003	0.00004
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00006	0.00006	0.00007
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00013	-0.00012	-0.00011
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00003	0.00004	0.00004
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00006	0.00006	0.00007
	(!A0 * !A1 * !B0 * C1 * !Y)	-0.00015	-0.00015	-0.00014
	(!A0 * !A1 * !B0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * C1 * !Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !B0 * C1 * !Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	-0.00015	-0.00015	-0.00014
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	0.00003	0.00004	0.00004
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00004	0.00005	0.00006
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00006	0.00006	0.00007

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X1P4H7H	**(A1 * B0 * C1 * Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * C1 * Y)	0.00003	0.00003	0.00003
	(A1 * B0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C1 * Y)	-0.00031	-0.00030	-0.00030
	(A1 * B0 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !C1 * Y)	0.00003	0.00003	0.00003
	(A1 * B0 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * !C1 * Y)	-0.00031	-0.00030	-0.00030
	(A1 * B0 * !C0 * !C1 * !Y)	0.00012	0.00012	0.00012
	(A1 * B0 * !C0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * !C1 * !Y)	-0.00024	-0.00023	-0.00023
	(A1 * !B0 * !C0 * !C1 * !Y)	0.00014	0.00014	0.00015
	(A1 * !B0 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !C0 * !C1 * !Y)	-0.00020	-0.00019	-0.00017
	(A0 * !A1 * B0 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C1 * Y)	0.00003	0.00003	0.00004
	(A0 * !A1 * B0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * C1 * Y)	-0.00031	-0.00030	-0.00030
	(A0 * !A1 * B0 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C0 * !C1 * Y)	0.00003	0.00003	0.00003
	(A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00031	-0.00031	-0.00030
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00012	0.00012	0.00012
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00024	-0.00024	-0.00023
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00014	0.00014	0.00014
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00020	-0.00019	-0.00016
	(!A0 * !A1 * B0 * C1 * !Y)	0.00012	0.00013	0.00013
	(!A0 * !A1 * B0 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * C1 * !Y)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * B0 * C1 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00012	0.00013	0.00013
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00007	-0.00006	-0.00006
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00012	0.00013	0.00013
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00004	-0.00004	-0.00003
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !B0 * C1 * !Y)	0.00015	0.00015	0.00015
	(!A0 * !A1 * !B0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * C1 * !Y)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * !B0 * C1 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	0.00015	0.00015	0.00015
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00015	0.00015	0.00015
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00007	-0.00006	-0.00006

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X1P4H7H	**(A1 * B1 * C1 * Y)**	-0.00009	-0.00008	-0.00007
	(A1 * B1 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C1 * Y)	0.00031	0.00032	0.00032
	(A1 * B0 * !B1 * C1 * Y)	-0.00009	-0.00008	-0.00006
	(A1 * B0 * !B1 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C1 * Y)	0.00031	0.00031	0.00031
	(A1 * !B0 * !B1 * C1 * !Y)	-0.00020	-0.00019	-0.00018
	(A1 * !B0 * !B1 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !B1 * C1 * !Y)	0.00001	0.00002	0.00002
	(A1 * !B0 * !B1 * C1 * !Y)	0.00011	0.00011	0.00012
	(A1 * !B0 * !B1 * !C1 * !Y)	-0.00022	-0.00021	-0.00021
	(A1 * !B0 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * !C1 * !Y)	0.00002	0.00002	0.00003
	(A1 * !B0 * !B1 * !C1 * !Y)	0.00011	0.00011	0.00011
	(A0 * !A1 * B1 * C1 * Y)	-0.00009	-0.00008	-0.00006
	(A0 * !A1 * B1 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C1 * Y)	0.00031	0.00031	0.00031
	(A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00009	-0.00008	-0.00007
	(A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * !A1 * B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C1 * Y)	0.00031	0.00031	0.00032
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00020	-0.00019	-0.00018
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00002	0.00002	0.00003
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00010	0.00011	0.00011
	(!A1 * !B0 * !B1 * !C1 * !Y)	-0.00022	-0.00021	-0.00021
	(!A1 * !B0 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * !C1 * !Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !B1 * !C1 * !Y)	0.00011	0.00011	0.00011
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00020	-0.00019	-0.00018
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * C1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * B1 * C1 * !Y)	0.00010	0.00011	0.00011
	(!A0 * !A1 * B1 * !C1 * !Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !A1 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * !C1 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * B1 * !C1 * !Y)	0.00010	0.00010	0.00010
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00020	-0.00019	-0.00018
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00010	0.00010	0.00011
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	0.00009	0.00010	0.00011

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X1P4H7H	**(A1 * B1 * C1 * Y)**	0.00009	0.00009	0.00009
	(A1 * B1 * C1 * Y)	0.00002	0.00002	0.00002
	(A1 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C1 * Y)	-0.00031	-0.00031	-0.00031
	(A1 * B0 * !B1 * C1 * Y)	0.00008	0.00009	0.00009
	(A1 * B0 * !B1 * C1 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * C1 * Y)	-0.00031	-0.00031	-0.00031
	(A1 * !B0 * !B1 * C1 * !Y)	0.00019	0.00020	0.00020
	(A1 * !B0 * !B1 * C1 * !Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !B1 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * !B0 * !B1 * C1 * !Y)	-0.00011	-0.00011	-0.00011
	(A1 * !B0 * !B1 * !C1 * !Y)	0.00021	0.00021	0.00022
	(A1 * !B0 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * !B0 * !B1 * !C1 * !Y)	-0.00011	-0.00011	-0.00011
	(A0 * !A1 * B1 * C1 * Y)	0.00008	0.00009	0.00009
	(A0 * !A1 * B1 * C1 * Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * C1 * Y)	-0.00031	-0.00031	-0.00031
	(A0 * !A1 * B0 * !B1 * C1 * Y)	0.00009	0.00009	0.00009
	(A0 * !A1 * B0 * !B1 * C1 * Y)	0.00001	0.00002	0.00002
	(A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00031	-0.00031	-0.00031
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00019	0.00020	0.00020
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00011	-0.00011	-0.00010
	(!A1 * !B0 * !B1 * !C1 * !Y)	0.00021	0.00021	0.00022
	(!A1 * !B0 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !B1 * !C1 * !Y)	-0.00011	-0.00011	-0.00010
	(!A0 * !A1 * B1 * C1 * !Y)	0.00019	0.00020	0.00020
	(!A0 * !A1 * B1 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !A1 * B1 * !C1 * !Y)	0.00021	0.00021	0.00022
	(!A0 * !A1 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * !C1 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * !A1 * B1 * !C1 * !Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00019	0.00020	0.00020
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	0.00021	0.00021	0.00022
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	-0.00010	-0.00010	-0.00009

Passive power(pJ) for C1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X1P4H7H	**(A1 * B1 * C0 * Y)**	-0.00000	-0.00000	0.00000
	(A1 * B1 * C0 * Y)	-0.00003	-0.00003	-0.00002
	(A1 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C0 * Y)	0.00034	0.00034	0.00034
	(A1 * B0 * !B1 * C0 * Y)	-0.00001	-0.00000	0.00000
	(A1 * B0 * !B1 * C0 * Y)	-0.00003	-0.00003	-0.00002
	(A1 * B0 * !B1 * C0 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * !B1 * C0 * Y)	0.00034	0.00034	0.00034
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00024	-0.00023	-0.00022
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !B1 * C0 * !Y)	0.00005	0.00006	0.00006
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00026	-0.00026	-0.00026
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00002	0.00002	0.00003
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00005	0.00006	0.00006
	(A0 * !A1 * B1 * C0 * Y)	-0.00000	0.00000	0.00001
	(A0 * !A1 * B1 * C0 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * !A1 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C0 * Y)	0.00034	0.00034	0.00034
	(A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * !A1 * B0 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C0 * Y)	0.00034	0.00034	0.00034
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00024	-0.00023	-0.00022
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00005	0.00006	0.00006
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00026	-0.00026	-0.00026
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00002	0.00002	0.00003
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00005	0.00006	0.00006
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00024	-0.00023	-0.00022
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * C0 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !A1 * B1 * C0 * !Y)	0.00004	0.00005	0.00005
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00026	-0.00026	-0.00026
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00004	0.00005	0.00005
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00024	-0.00023	-0.00022
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	-0.00026	-0.00026	-0.00026
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	0.00004	0.00005	0.00005

Passive power(pJ) for C1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X1P4H7H	**(A1 * B1 * C0 * Y)**	0.00000	0.00000	0.00000
	(A1 * B1 * C0 * Y)	0.00002	0.00003	0.00003
	(A1 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C0 * Y)	-0.00034	-0.00034	-0.00034
	(A1 * B0 * !B1 * C0 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * !B1 * C0 * Y)	0.00002	0.00003	0.00003
	(A1 * B0 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * C0 * Y)	-0.00034	-0.00034	-0.00034
	(A1 * !B0 * !B1 * C0 * !Y)	0.00024	0.00024	0.00024
	(A1 * !B0 * !B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00006	-0.00006	-0.00005
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00026	0.00026	0.00026
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00006	-0.00006	-0.00005
	(A0 * !A1 * B1 * C0 * Y)	0.00000	0.00000	0.00001
	(A0 * !A1 * B1 * C0 * Y)	0.00002	0.00003	0.00003
	(A0 * !A1 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * C0 * Y)	-0.00034	-0.00034	-0.00034
	(A0 * !A1 * B0 * !B1 * C0 * Y)	0.00000	0.00000	0.00001
	(A0 * !A1 * B0 * !B1 * C0 * Y)	0.00002	0.00003	0.00003
	(A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00034	-0.00034	-0.00034
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00024	0.00024	0.00024
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00006	-0.00006	-0.00005
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00026	0.00026	0.00026
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00000	0.00001	0.00002
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !A1 * B1 * C0 * !Y)	0.00024	0.00024	0.00024
	(!A0 * !A1 * B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00003	-0.00002	-0.00001
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00026	0.00026	0.00026
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00024	0.00024	0.00024
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	0.00026	0.00026	0.00026
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	-0.00005	-0.00005	-0.00004

OA222X2H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

OA222 (Y = (A0 + A1) • (B0 + B1) • (C0 + C1))

Truth Table

INPUT						OUTPUT
A0	A1	B0	B1	C0	C1	Y
0	0	x	x	x	x	0
x	1	0	0	x	x	0
x	1	x	1	0	0	0
x	1	x	1	x	1	1
x	1	x	1	1	x	1
x	1	1	x	0	0	0
x	1	1	x	x	1	1
x	1	1	x	1	x	1
1	x	0	0	x	x	0
1	x	x	1	0	0	0
1	x	x	1	x	1	1
1	x	x	1	1	x	1
1	x	1	x	0	0	0
1	x	1	x	x	1	1
1	x	1	x	1	x	1

Footprint

Cell Name	Area
OA222X2H7H	3.64000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	**A1**	**B0**	**B1**	**C0**	**C1**	**Y**
OA222X2H7H	0.00092	0.00092	0.00081	0.00086	0.00082	0.00095	0.05393

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
OA222X2H7H	0.00000	0.02847	0.04834

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA222X2H7H	A0->Y (RR)	0.15939	0.34796	0.80137
	A1->Y (RR)	0.15352	0.34118	0.79254
	B0->Y (RR)	0.14919	0.34108	0.80663
	B1->Y (RR)	0.14371	0.33452	0.79680
	C0->Y (RR)	0.12939	0.31670	0.76921
	C1->Y (RR)	0.12600	0.31187	0.76049

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA222X2H7H	A0->Y (FF)	0.16137	0.33282	0.73126
	A1->Y (FF)	0.15740	0.32713	0.72661
	B0->Y (FF)	0.14420	0.31291	0.70430
	B1->Y (FF)	0.14098	0.30790	0.69963
	C0->Y (FF)	0.12381	0.28857	0.66939
	C1->Y (FF)	0.12267	0.28536	0.66732

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA222X2H7H	A0	0.00063	0.00071	0.00078
	A0	0.00017	0.00017	0.00018
	A0	-0.00014	-0.00014	-0.00014
	A0	0.00280	0.00288	0.00295
	A1	0.00063	0.00072	0.00080
	A1	0.00013	0.00013	0.00013
	A1	-0.00014	-0.00014	-0.00013
	A1	0.00264	0.00272	0.00280
	B0	0.00065	0.00072	0.00078
	B0	0.00017	0.00017	0.00018
	B0	-0.00008	-0.00007	-0.00006
	B0	0.00239	0.00245	0.00252
	B1	0.00065	0.00072	0.00079
	B1	0.00012	0.00013	0.00013
	B1	-0.00008	-0.00007	-0.00006
	B1	0.00225	0.00232	0.00239
	C0	0.00064	0.00070	0.00078
	C0	0.00017	0.00017	0.00017
	C0	-0.00001	-0.00001	0.00001
	C0	0.00204	0.00210	0.00218
	C1	0.00063	0.00070	0.00079
	C1	0.00013	0.00013	0.00013
	C1	-0.00001	-0.00001	0.00000
	C1	0.00190	0.00197	0.00206

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA222X2H7H	A0	0.00281	0.00290	0.00298
	A0	-0.00008	-0.00008	-0.00008
	A0	0.00015	0.00015	0.00015
	A0	0.00074	0.00081	0.00090
	A1	0.00268	0.00275	0.00284
	A1	-0.00004	-0.00004	-0.00003
	A1	0.00015	0.00015	0.00015
	A1	0.00078	0.00085	0.00094
	B0	0.00250	0.00258	0.00265
	B0	-0.00008	-0.00008	-0.00007
	B0	0.00008	0.00008	0.00009
	B0	0.00077	0.00084	0.00092
	B1	0.00237	0.00244	0.00252
	B1	-0.00004	-0.00003	-0.00003
	B1	0.00007	0.00008	0.00009
	B1	0.00080	0.00087	0.00095
	C0	0.00215	0.00222	0.00229
	C0	-0.00008	-0.00008	-0.00008
	C0	0.00000	0.00001	0.00001
	C0	0.00068	0.00075	0.00083
	C1	0.00203	0.00211	0.00219
	C1	-0.00004	-0.00004	-0.00003
	C1	0.00000	0.00001	0.00001
	C1	0.00072	0.00080	0.00088

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X2H7H	**(A1 * B1 * C1 * Y)**	-0.00009	-0.00008	-0.00007
	(A1 * B1 * C1 * Y)	-0.00003	-0.00002	-0.00002
	(A1 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C1 * Y)	0.00035	0.00036	0.00036
	(A1 * B1 * C0 * !C1 * Y)	-0.00009	-0.00008	-0.00007
	(A1 * B1 * C0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C0 * !C1 * Y)	0.00036	0.00036	0.00036
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	-0.00016	-0.00015	-0.00014
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	0.00028	0.00028	0.00029
	(A1 * B0 * !B1 * C1 * Y)	-0.00009	-0.00008	-0.00007
	(A1 * B0 * !B1 * C1 * Y)	-0.00002	-0.00002	-0.00001
	(A1 * B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * !B1 * C1 * Y)	0.00035	0.00036	0.00036
	(A1 * B0 * !B1 * C0 * !C1 * Y)	-0.00009	-0.00008	-0.00006
	(A1 * B0 * !B1 * C0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C0 * !C1 * Y)	0.00035	0.00036	0.00036
	(A1 * !B0 * !B1 * !Y)	-0.00016	-0.00015	-0.00014
	(A1 * !B0 * !B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00001
	(A1 * !B0 * !B1 * !Y)	0.00029	0.00029	0.00029
	(!A1 * B1 * !C0 * !C1 * !Y)	-0.00018	-0.00018	-0.00018
	(!A1 * B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B1 * !C0 * !C1 * !Y)	0.00000	0.00001	0.00002
	(!A1 * B1 * !C0 * !C1 * !Y)	0.00024	0.00024	0.00025
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00018	-0.00018	-0.00018
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00002
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	0.00024	0.00024	0.00025
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00018	-0.00018	-0.00017
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00023	0.00024	0.00024
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00018	-0.00018	-0.00018
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	0.00024	0.00024	0.00025
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00018	-0.00018	-0.00017
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00024	0.00024	0.00025

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X2H7H	**(A1 * B1 * C1 * Y)**	0.00008	0.00009	0.00009
	(A1 * B1 * C1 * Y)	0.00002	0.00002	0.00003
	(A1 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C1 * Y)	-0.00036	-0.00035	-0.00035
	(A1 * B1 * C0 * !C1 * Y)	0.00008	0.00009	0.00009
	(A1 * B1 * C0 * !C1 * Y)	0.00002	0.00002	0.00002
	(A1 * B1 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C0 * !C1 * Y)	-0.00036	-0.00035	-0.00035
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	0.00016	0.00016	0.00016
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	-0.00029	-0.00028	-0.00028
	(A1 * B0 * !B1 * C1 * Y)	0.00009	0.00009	0.00009
	(A1 * B0 * !B1 * C1 * Y)	0.00001	0.00002	0.00002
	(A1 * B0 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * C1 * Y)	-0.00036	-0.00036	-0.00035
	(A1 * B0 * !B1 * C0 * !C1 * Y)	0.00009	0.00009	0.00009
	(A1 * B0 * !B1 * C0 * !C1 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !B1 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * C0 * !C1 * Y)	-0.00036	-0.00035	-0.00035
	(A1 * !B0 * !B1 * !Y)	0.00015	0.00016	0.00016
	(A1 * !B0 * !B1 * !Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !B1 * !Y)	-0.00001	-0.00000	0.00000
	(A1 * !B0 * !B1 * !Y)	-0.00029	-0.00029	-0.00028
	(!A1 * B1 * !C0 * !C1 * !Y)	0.00018	0.00018	0.00018
	(!A1 * B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B1 * !C0 * !C1 * !Y)	-0.00002	-0.00001	-0.00000
	(!A1 * B1 * !C0 * !C1 * !Y)	-0.00024	-0.00022	-0.00021
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	0.00018	0.00018	0.00018
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00002	-0.00001	-0.00001
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00024	-0.00022	-0.00021
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00018	0.00018	0.00018
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00024	-0.00023	-0.00020
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	0.00018	0.00018	0.00018
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00002	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00024	-0.00023	-0.00020
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00017	0.00018	0.00018
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00024	-0.00023	-0.00020

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X2H7H	**(A0 * B1 * C1 * Y)**	-0.00000	-0.00000	0.00000
	(A0 * B1 * C1 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B1 * C1 * Y)	0.00035	0.00035	0.00035
	(A0 * B1 * C0 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !C1 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !C1 * Y)	0.00035	0.00035	0.00035
	(A0 * B1 * !C0 * !C1 * !Y)	-0.00016	-0.00015	-0.00014
	(A0 * B1 * !C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B1 * !C0 * !C1 * !Y)	0.00000	0.00001	0.00002
	(A0 * B1 * !C0 * !C1 * !Y)	0.00023	0.00024	0.00025
	(A0 * B0 * !B1 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C1 * Y)	-0.00004	-0.00003	-0.00003
	(A0 * B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C1 * Y)	0.00035	0.00035	0.00035
	(A0 * B0 * !B1 * C0 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * !B1 * C0 * !C1 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * B0 * !B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00001
	(A0 * B0 * !B1 * C0 * !C1 * Y)	0.00035	0.00035	0.00036
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00016	-0.00015	-0.00014
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00001	0.00002
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00023	0.00024	0.00024
	(A0 * !B0 * !B1 * C1 * !Y)	-0.00016	-0.00015	-0.00014
	(A0 * !B0 * !B1 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * !B1 * C1 * !Y)	0.00000	0.00001	0.00002
	(A0 * !B0 * !B1 * C1 * !Y)	0.00023	0.00024	0.00024
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00016	-0.00015	-0.00014
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00023	0.00024	0.00025
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00016	-0.00015	-0.00014
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00024	0.00024	0.00024
	(!A0 * B1 * !C0 * !C1 * !Y)	-0.00018	-0.00018	-0.00018
	(!A0 * B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B1 * !C0 * !C1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * B1 * !C0 * !C1 * !Y)	0.00020	0.00020	0.00020
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00018	-0.00018	-0.00018
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00002
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00019	0.00020	0.00020
	(!A0 * !B0 * !B1 * C1 * !Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * C1 * !Y)	0.00001	0.00002	0.00003
	(!A0 * !B0 * !B1 * C1 * !Y)	0.00019	0.00020	0.00021
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00019	0.00020	0.00020
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00020	0.00020	0.00021

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X2H7H	**(A0 * B1 * C1 * Y)**	0.00000	0.00000	0.00001
	(A0 * B1 * C1 * Y)	0.00002	0.00003	0.00003
	(A0 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * C1 * Y)	-0.00035	-0.00035	-0.00035
	(A0 * B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !C1 * Y)	0.00002	0.00003	0.00004
	(A0 * B1 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * C0 * !C1 * Y)	-0.00035	-0.00035	-0.00035
	(A0 * B1 * !C0 * !C1 * !Y)	0.00016	0.00016	0.00016
	(A0 * B1 * !C0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * B1 * !C0 * !C1 * !Y)	-0.00001	-0.00000	0.00000
	(A0 * B1 * !C0 * !C1 * !Y)	-0.00025	-0.00024	-0.00023
	(A0 * B0 * !B1 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C1 * Y)	0.00003	0.00003	0.00004
	(A0 * B0 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !B1 * C1 * Y)	-0.00035	-0.00035	-0.00035
	(A0 * B0 * !B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C0 * !C1 * Y)	0.00003	0.00003	0.00004
	(A0 * B0 * !B1 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !B1 * C0 * !C1 * Y)	-0.00035	-0.00035	-0.00035
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00016	0.00016	0.00016
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00000	-0.00000
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00024	-0.00024	-0.00023
	(A0 * !B0 * !B1 * C1 * !Y)	0.00016	0.00016	0.00016
	(A0 * !B0 * !B1 * C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * !B1 * C1 * !Y)	-0.00001	-0.00000	-0.00000
	(A0 * !B0 * !B1 * C1 * !Y)	-0.00024	-0.00024	-0.00023
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00016	0.00016	0.00016
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00001	-0.00000	-0.00000
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00024	-0.00024	-0.00023
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00016	0.00016	0.00016
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00024	-0.00024	-0.00024
	(!A0 * B1 * !C0 * !C1 * !Y)	0.00018	0.00018	0.00018
	(!A0 * B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B1 * !C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * B1 * !C0 * !C1 * !Y)	-0.00020	-0.00018	-0.00016
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00018	0.00018	0.00018
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00020	-0.00018	-0.00017
	(!A0 * !B0 * !B1 * C1 * !Y)	0.00018	0.00018	0.00018
	(!A0 * !B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B0 * !B1 * C1 * !Y)	-0.00020	-0.00018	-0.00016
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00018	0.00018	0.00018
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00020	-0.00019	-0.00017
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00018	0.00018	0.00018
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00020	-0.00018	-0.00016

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X2H7H	**(A1 * B1 * C1 * Y)**	-0.00009	-0.00008	-0.00007
	(A1 * B1 * C1 * Y)	-0.00003	-0.00002	-0.00002
	(A1 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C1 * Y)	0.00029	0.00029	0.00030
	(A1 * B1 * C0 * !C1 * Y)	-0.00009	-0.00008	-0.00007
	(A1 * B1 * C0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C0 * !C1 * Y)	0.00029	0.00029	0.00029
	(A1 * !B1 * !C0 * !C1 * !Y)	-0.00014	-0.00014	-0.00014
	(A1 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B1 * !C0 * !C1 * !Y)	0.00023	0.00023	0.00024
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	-0.00012	-0.00011	-0.00010
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	0.00025	0.00026	0.00026
	(A0 * !A1 * B1 * C1 * Y)	-0.00009	-0.00008	-0.00007
	(A0 * !A1 * B1 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C1 * Y)	0.00029	0.00029	0.00030
	(A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00009	-0.00008	-0.00007
	(A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C0 * !C1 * Y)	0.00029	0.00029	0.00030
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00014	-0.00014	-0.00014
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00022	0.00023	0.00023
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00013	-0.00012	-0.00011
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * C1 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B1 * C1 * !Y)	0.00009	0.00010	0.00010
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00013	-0.00012	-0.00011
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00009	0.00010	0.00010
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	-0.00013	-0.00012	-0.00011
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	0.00009	0.00010	0.00010
	(!A0 * !A1 * !B1 * C1 * !Y)	-0.00015	-0.00015	-0.00014
	(!A0 * !A1 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B1 * C1 * !Y)	0.00003	0.00003	0.00004
	(!A0 * !A1 * !B1 * C1 * !Y)	0.00009	0.00010	0.00010
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	-0.00015	-0.00015	-0.00014
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	0.00003	0.00003	0.00004
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	0.00009	0.00010	0.00010
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00010	0.00010	0.00010

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X2H7H	**(A1 * B1 * C1 * Y)**	0.00008	0.00009	0.00009
	(A1 * B1 * C1 * Y)	0.00002	0.00002	0.00003
	(A1 * B1 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B1 * C1 * Y)	-0.00029	-0.00029	-0.00029
	(A1 * B1 * C0 * !C1 * Y)	0.00008	0.00009	0.00009
	(A1 * B1 * C0 * !C1 * Y)	0.00002	0.00002	0.00002
	(A1 * B1 * C0 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B1 * C0 * !C1 * Y)	-0.00029	-0.00029	-0.00029
	(A1 * !B1 * !C0 * !C1 * !Y)	0.00014	0.00014	0.00014
	(A1 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00002
	(A1 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B1 * !C0 * !C1 * !Y)	-0.00023	-0.00022	-0.00020
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	0.00012	0.00012	0.00012
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	-0.00001	-0.00000	-0.00000
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	-0.00026	-0.00026	-0.00025
	(A0 * !A1 * B1 * C1 * Y)	0.00008	0.00009	0.00009
	(A0 * !A1 * B1 * C1 * Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * B1 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * B1 * C1 * Y)	-0.00029	-0.00029	-0.00029
	(A0 * !A1 * B1 * C0 * !C1 * Y)	0.00008	0.00009	0.00009
	(A0 * !A1 * B1 * C0 * !C1 * Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00029	-0.00029	-0.00028
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00014	0.00014	0.00014
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00023	-0.00021	-0.00019
	(!A0 * !A1 * B1 * C1 * !Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * B1 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00010	-0.00010	-0.00009
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00010	-0.00010	-0.00009
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	-0.00010	-0.00010	-0.00009
	(!A0 * !A1 * !B1 * C1 * !Y)	0.00015	0.00015	0.00015
	(!A0 * !A1 * !B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B1 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !B1 * C1 * !Y)	-0.00010	-0.00010	-0.00009
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	0.00014	0.00015	0.00015
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	-0.00010	-0.00009	-0.00009
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00015	0.00015	0.00015
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00010	-0.00010	-0.00010

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X2H7H	**(A1 * B0 * C1 * Y)**	-0.00000	-0.00000	0.00000
	(A1 * B0 * C1 * Y)	-0.00003	-0.00003	-0.00002
	(A1 * B0 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C1 * Y)	0.00030	0.00031	0.00031
	(A1 * B0 * C0 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * C0 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !C1 * Y)	0.00030	0.00031	0.00031
	(A1 * B0 * !C0 * !C1 * !Y)	-0.00012	-0.00011	-0.00010
	(A1 * B0 * !C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * !C1 * !Y)	0.00024	0.00024	0.00024
	(A1 * !B0 * !C0 * !C1 * !Y)	-0.00014	-0.00014	-0.00014
	(A1 * !B0 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !C0 * !C1 * !Y)	0.00021	0.00021	0.00021
	(A0 * !A1 * B0 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * B0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C1 * Y)	0.00031	0.00031	0.00031
	(A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * B0 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C0 * !C1 * Y)	0.00031	0.00031	0.00031
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00012	-0.00011	-0.00010
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00023	0.00024	0.00024
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00014	-0.00014	-0.00014
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00020	0.00021	0.00021
	(!A0 * !A1 * B0 * C1 * !Y)	-0.00013	-0.00012	-0.00011
	(!A0 * !A1 * B0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * C1 * !Y)	0.00003	0.00003	0.00004
	(!A0 * !A1 * B0 * C1 * !Y)	0.00006	0.00006	0.00007
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00013	-0.00012	-0.00011
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00003	0.00003	0.00004
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00006	0.00006	0.00007
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00013	-0.00012	-0.00011
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00006	0.00006	0.00007
	(!A0 * !A1 * !B0 * C1 * !Y)	-0.00015	-0.00015	-0.00014
	(!A0 * !A1 * !B0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * C1 * !Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !B0 * C1 * !Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	-0.00015	-0.00015	-0.00014
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00004	0.00005	0.00005
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00006	0.00006	0.00006

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X2H7H	**(A1 * B0 * C1 * Y)**	-0.00000	0.00000	0.00000
	(A1 * B0 * C1 * Y)	0.00002	0.00003	0.00003
	(A1 * B0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C1 * Y)	-0.00031	-0.00031	-0.00030
	(A1 * B0 * C0 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !C1 * Y)	0.00003	0.00003	0.00004
	(A1 * B0 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * !C1 * Y)	-0.00031	-0.00031	-0.00030
	(A1 * B0 * !C0 * !C1 * !Y)	0.00012	0.00012	0.00012
	(A1 * B0 * !C0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !C0 * !C1 * !Y)	-0.00024	-0.00024	-0.00024
	(A1 * !B0 * !C0 * !C1 * !Y)	0.00014	0.00014	0.00015
	(A1 * !B0 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !C0 * !C1 * !Y)	-0.00021	-0.00019	-0.00017
	(A0 * !A1 * B0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C1 * Y)	0.00003	0.00003	0.00004
	(A0 * !A1 * B0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * B0 * C1 * Y)	-0.00031	-0.00031	-0.00031
	(A0 * !A1 * B0 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C0 * !C1 * Y)	0.00003	0.00003	0.00003
	(A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00031	-0.00031	-0.00031
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00012	0.00012	0.00012
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00024	-0.00024	-0.00023
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00014	0.00014	0.00014
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00021	-0.00019	-0.00016
	(!A0 * !A1 * B0 * C1 * !Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * B0 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * C1 * !Y)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * B0 * C1 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00007	-0.00006	-0.00006
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00012	0.00013	0.00013
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !B0 * C1 * !Y)	0.00015	0.00015	0.00015
	(!A0 * !A1 * !B0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * C1 * !Y)	-0.00004	-0.00004	-0.00003
	(!A0 * !A1 * !B0 * C1 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	0.00015	0.00015	0.00015
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	-0.00004	-0.00004	-0.00003
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00015	0.00015	0.00015
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00005	-0.00004	-0.00004
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X2H7H	**(A1 * B1 * C1 * Y)**	-0.00009	-0.00008	-0.00007
	(A1 * B1 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C1 * Y)	0.00032	0.00032	0.00032
	(A1 * B0 * !B1 * C1 * Y)	-0.00009	-0.00008	-0.00006
	(A1 * B0 * !B1 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C1 * Y)	0.00032	0.00032	0.00032
	(A1 * !B0 * !B1 * C1 * !Y)	-0.00020	-0.00019	-0.00018
	(A1 * !B0 * !B1 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !B1 * C1 * !Y)	0.00001	0.00002	0.00003
	(A1 * !B0 * !B1 * C1 * !Y)	0.00011	0.00011	0.00011
	(A1 * !B0 * !B1 * !C1 * !Y)	-0.00022	-0.00021	-0.00021
	(A1 * !B0 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * !C1 * !Y)	0.00002	0.00002	0.00003
	(A1 * !B0 * !B1 * !C1 * !Y)	0.00011	0.00012	0.00012
	(A0 * !A1 * B1 * C1 * Y)	-0.00009	-0.00008	-0.00006
	(A0 * !A1 * B1 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C1 * Y)	0.00032	0.00032	0.00032
	(A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00009	-0.00008	-0.00007
	(A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * !A1 * B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C1 * Y)	0.00032	0.00032	0.00032
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00020	-0.00019	-0.00018
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00001	0.00002	0.00003
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00011	0.00011	0.00012
	(!A1 * !B0 * !B1 * !C1 * !Y)	-0.00022	-0.00021	-0.00021
	(!A1 * !B0 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * !C1 * !Y)	0.00002	0.00002	0.00003
	(!A1 * !B0 * !B1 * !C1 * !Y)	0.00010	0.00011	0.00012
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00020	-0.00019	-0.00018
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * C1 * !Y)	0.00010	0.00011	0.00011
	(!A0 * !A1 * B1 * !C1 * !Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !A1 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * !C1 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !A1 * B1 * !C1 * !Y)	0.00010	0.00011	0.00011
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00020	-0.00019	-0.00018
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00010	0.00011	0.00011
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	0.00009	0.00010	0.00010

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X2H7H	**(A1 * B1 * C1 * Y)**	0.00009	0.00009	0.00009
	(A1 * B1 * C1 * Y)	0.00002	0.00002	0.00002
	(A1 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C1 * Y)	-0.00032	-0.00032	-0.00032
	(A1 * B0 * !B1 * C1 * Y)	0.00009	0.00009	0.00009
	(A1 * B0 * !B1 * C1 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * C1 * Y)	-0.00032	-0.00032	-0.00032
	(A1 * !B0 * !B1 * C1 * !Y)	0.00020	0.00020	0.00020
	(A1 * !B0 * !B1 * C1 * !Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !B1 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * !B0 * !B1 * C1 * !Y)	-0.00011	-0.00011	-0.00011
	(A1 * !B0 * !B1 * !C1 * !Y)	0.00021	0.00021	0.00022
	(A1 * !B0 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !B1 * !C1 * !Y)	-0.00011	-0.00011	-0.00010
	(A0 * !A1 * B1 * C1 * Y)	0.00009	0.00009	0.00009
	(A0 * !A1 * B1 * C1 * Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * C1 * Y)	-0.00032	-0.00032	-0.00032
	(A0 * !A1 * B0 * !B1 * C1 * Y)	0.00008	0.00009	0.00009
	(A0 * !A1 * B0 * !B1 * C1 * Y)	0.00001	0.00002	0.00002
	(A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00032	-0.00032	-0.00032
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00020	0.00020	0.00020
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00011	-0.00011	-0.00011
	(!A1 * !B0 * !B1 * !C1 * !Y)	0.00021	0.00021	0.00022
	(!A1 * !B0 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * !B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !B1 * !C1 * !Y)	-0.00011	-0.00011	-0.00010
	(!A0 * !A1 * B1 * C1 * !Y)	0.00019	0.00020	0.00020
	(!A0 * !A1 * B1 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !A1 * B1 * !C1 * !Y)	0.00021	0.00021	0.00022
	(!A0 * !A1 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * !C1 * !Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00011	-0.00010	-0.00010
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	0.00021	0.00021	0.00022
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	-0.00010	-0.00010	-0.00009

Passive power(pJ) for C1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X2H7H	**(A1 * B1 * C0 * Y)**	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C0 * Y)	-0.00003	-0.00003	-0.00002
	(A1 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C0 * Y)	0.00034	0.00034	0.00034
	(A1 * B0 * !B1 * C0 * Y)	-0.00000	0.00000	0.00001
	(A1 * B0 * !B1 * C0 * Y)	-0.00003	-0.00003	-0.00002
	(A1 * B0 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C0 * Y)	0.00034	0.00034	0.00034
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00024	-0.00023	-0.00022
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !B1 * C0 * !Y)	0.00001	0.00002	0.00002
	(A1 * !B0 * !B1 * C0 * !Y)	0.00005	0.00006	0.00006
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00026	-0.00026	-0.00026
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00002	0.00002	0.00003
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00005	0.00006	0.00006
	(A0 * !A1 * B1 * C0 * Y)	-0.00000	0.00000	0.00001
	(A0 * !A1 * B1 * C0 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * !A1 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C0 * Y)	0.00034	0.00034	0.00034
	(A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * !A1 * B0 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C0 * Y)	0.00034	0.00034	0.00034
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00024	-0.00023	-0.00022
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00005	0.00006	0.00006
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00026	-0.00026	-0.00026
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00006	0.00006	0.00007
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00024	-0.00023	-0.00022
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * C0 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !A1 * B1 * C0 * !Y)	0.00004	0.00005	0.00005
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00026	-0.00026	-0.00026
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00001	0.00002	0.00003
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00004	0.00005	0.00006
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00024	-0.00023	-0.00022
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00005	0.00005	0.00006
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	-0.00026	-0.00026	-0.00026
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	0.00001	0.00002	0.00003
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	0.00004	0.00005	0.00006

Passive power(pJ) for C1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X2H7H	**(A1 * B1 * C0 * Y)**	0.00000	0.00000	0.00000
	(A1 * B1 * C0 * Y)	0.00003	0.00003	0.00003
	(A1 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C0 * Y)	-0.00034	-0.00034	-0.00034
	(A1 * B0 * !B1 * C0 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * !B1 * C0 * Y)	0.00002	0.00003	0.00003
	(A1 * B0 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * C0 * Y)	-0.00034	-0.00034	-0.00034
	(A1 * !B0 * !B1 * C0 * !Y)	0.00024	0.00024	0.00024
	(A1 * !B0 * !B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00006	-0.00006	-0.00005
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00026	0.00026	0.00026
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00006	-0.00006	-0.00005
	(A0 * !A1 * B1 * C0 * Y)	-0.00000	0.00000	0.00001
	(A0 * !A1 * B1 * C0 * Y)	0.00002	0.00003	0.00003
	(A0 * !A1 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * C0 * Y)	-0.00034	-0.00034	-0.00034
	(A0 * !A1 * B0 * !B1 * C0 * Y)	0.00000	0.00000	0.00001
	(A0 * !A1 * B0 * !B1 * C0 * Y)	0.00002	0.00003	0.00003
	(A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00034	-0.00034	-0.00034
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00024	0.00024	0.00024
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00006	-0.00006	-0.00005
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00026	0.00026	0.00026
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * B1 * C0 * !Y)	0.00024	0.00024	0.00024
	(!A0 * !A1 * B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00026	0.00026	0.00027
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00024	0.00024	0.00024
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	0.00026	0.00026	0.00026
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	-0.00005	-0.00005	-0.00004

OA222X3H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

OA222 (Y = (A0 + A1) • (B0 + B1) • (C0 + C1))

Truth Table

INPUT						OUTPUT
A0	A1	B0	B1	C0	C1	Y
0	0	x	x	x	x	0
x	1	0	0	x	x	0
x	1	x	1	0	0	0
x	1	x	1	x	1	1
x	1	x	1	1	x	1
x	1	1	x	0	0	0
x	1	1	x	x	1	1
x	1	1	x	1	x	1
1	x	0	0	x	x	0
1	x	x	1	0	0	0
1	x	x	1	x	1	1
1	x	x	1	1	x	1
1	x	1	x	0	0	0
1	x	1	x	x	1	1
1	x	1	x	1	x	1

Footprint

Cell Name	Area
OA222X3H7H	3.64000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	**A1**	**B0**	**B1**	**C0**	**C1**	**Y**
OA222X3H7H	0.00100	0.00103	0.00093	0.00097	0.00092	0.00108	0.08561

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
OA222X3H7H	0.00000	0.03717	0.04496

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA222X3H7H	A0->Y (RR)	0.15666	0.35043	0.81385
	A1->Y (RR)	0.15006	0.34280	0.80349
	B0->Y (RR)	0.14777	0.34417	0.81798
	B1->Y (RR)	0.14153	0.33666	0.80678
	C0->Y (RR)	0.12901	0.31980	0.77896
	C1->Y (RR)	0.12506	0.31430	0.76916

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA222X3H7H	A0->Y (FF)	0.14549	0.32015	0.72102
	A1->Y (FF)	0.14116	0.31396	0.71473
	B0->Y (FF)	0.13211	0.30411	0.69820
	B1->Y (FF)	0.12813	0.29828	0.69203
	C0->Y (FF)	0.11491	0.28325	0.66797
	C1->Y (FF)	0.11305	0.27937	0.66461

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA222X3H7H	A0	0.00096	0.00106	0.00117
	A0	0.00024	0.00024	0.00024
	A0	-0.00018	-0.00018	-0.00018
	A0	0.00349	0.00359	0.00369
	A1	0.00096	0.00108	0.00119
	A1	0.00018	0.00018	0.00018
	A1	-0.00018	-0.00018	-0.00017
	A1	0.00331	0.00342	0.00352
	B0	0.00098	0.00107	0.00117
	B0	0.00024	0.00024	0.00024
	B0	-0.00010	-0.00009	-0.00007
	B0	0.00304	0.00313	0.00323
	B1	0.00098	0.00108	0.00118
	B1	0.00018	0.00018	0.00018
	B1	-0.00010	-0.00009	-0.00008
	B1	0.00285	0.00294	0.00305
	C0	0.00096	0.00106	0.00116
	C0	0.00024	0.00024	0.00024
	C0	-0.00000	-0.00000	0.00002
	C0	0.00260	0.00269	0.00280
	C1	0.00095	0.00106	0.00118
	C1	0.00017	0.00018	0.00019
	C1	-0.00000	0.00000	0.00004
	C1	0.00243	0.00253	0.00265

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA222X3H7H	A0	0.00361	0.00371	0.00383
	A0	-0.00012	-0.00011	-0.00009
	A0	0.00019	0.00019	0.00020
	A0	0.00119	0.00129	0.00140
	A1	0.00341	0.00350	0.00362
	A1	-0.00005	-0.00005	-0.00003
	A1	0.00019	0.00019	0.00020
	A1	0.00121	0.00130	0.00142
	B0	0.00326	0.00336	0.00347
	B0	-0.00012	-0.00012	-0.00009
	B0	0.00009	0.00010	0.00013
	B0	0.00120	0.00130	0.00140
	B1	0.00307	0.00316	0.00327
	B1	-0.00005	-0.00005	-0.00003
	B1	0.00009	0.00010	0.00012
	B1	0.00123	0.00133	0.00144
	C0	0.00284	0.00295	0.00305
	C0	-0.00011	-0.00011	-0.00009
	C0	0.00000	0.00000	0.00001
	C0	0.00111	0.00122	0.00132
	C1	0.00268	0.00279	0.00290
	C1	-0.00005	-0.00005	-0.00004
	C1	0.00000	0.00000	0.00001
	C1	0.00114	0.00125	0.00137

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X3H7H	**(A1 * B1 * C1 * Y)**	-0.00012	-0.00011	-0.00010
	(A1 * B1 * C1 * Y)	-0.00003	-0.00003	-0.00002
	(A1 * B1 * C1 * Y)	0.00000	0.00001	0.00001
	(A1 * B1 * C1 * Y)	0.00035	0.00035	0.00035
	(A1 * B1 * C0 * !C1 * Y)	-0.00012	-0.00011	-0.00009
	(A1 * B1 * C0 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * B1 * C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(A1 * B1 * C0 * !C1 * Y)	0.00035	0.00035	0.00036
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	-0.00018	-0.00017	-0.00016
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	0.00000	0.00001	0.00002
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	0.00028	0.00029	0.00029
	(A1 * B0 * !B1 * C1 * Y)	-0.00012	-0.00011	-0.00009
	(A1 * B0 * !B1 * C1 * Y)	-0.00003	-0.00003	-0.00002
	(A1 * B0 * !B1 * C1 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !B1 * C1 * Y)	0.00035	0.00035	0.00036
	(A1 * B0 * !B1 * C0 * !C1 * Y)	-0.00012	-0.00011	-0.00010
	(A1 * B0 * !B1 * C0 * !C1 * Y)	-0.00003	-0.00003	-0.00002
	(A1 * B0 * !B1 * C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !B1 * C0 * !C1 * Y)	0.00035	0.00035	0.00036
	(A1 * !B0 * !B1 * !Y)	-0.00018	-0.00017	-0.00016
	(A1 * !B0 * !B1 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * !B1 * !Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * !B1 * !Y)	0.00028	0.00029	0.00029
	(!A1 * B1 * !C0 * !C1 * !Y)	-0.00021	-0.00021	-0.00021
	(!A1 * B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B1 * !C0 * !C1 * !Y)	0.00001	0.00002	0.00003
	(!A1 * B1 * !C0 * !C1 * !Y)	0.00022	0.00023	0.00023
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00021	-0.00021	-0.00021
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00002	0.00003
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	0.00023	0.00023	0.00024
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00021	-0.00021	-0.00021
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00023	0.00024	0.00025
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00021	-0.00021	-0.00021
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	0.00024	0.00024	0.00024
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00021	-0.00021	-0.00021
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00002	0.00002	0.00003
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00023	0.00023	0.00024

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X3H7H	**(A1 * B1 * C1 * Y)**	0.00012	0.00012	0.00012
	(A1 * B1 * C1 * Y)	0.00002	0.00003	0.00003
	(A1 * B1 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B1 * C1 * Y)	-0.00035	-0.00035	-0.00034
	(A1 * B1 * C0 * !C1 * Y)	0.00011	0.00012	0.00012
	(A1 * B1 * C0 * !C1 * Y)	0.00003	0.00003	0.00003
	(A1 * B1 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B1 * C0 * !C1 * Y)	-0.00035	-0.00035	-0.00034
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	0.00018	0.00018	0.00018
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	0.00003	0.00003	0.00003
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	-0.00001	-0.00000	0.00000
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	-0.00029	-0.00028	-0.00028
	(A1 * B0 * !B1 * C1 * Y)	0.00011	0.00012	0.00012
	(A1 * B0 * !B1 * C1 * Y)	0.00002	0.00003	0.00003
	(A1 * B0 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !B1 * C1 * Y)	-0.00035	-0.00035	-0.00034
	(A1 * B0 * !B1 * C0 * !C1 * Y)	0.00012	0.00012	0.00012
	(A1 * B0 * !B1 * C0 * !C1 * Y)	0.00002	0.00003	0.00003
	(A1 * B0 * !B1 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !B1 * C0 * !C1 * Y)	-0.00035	-0.00035	-0.00035
	(A1 * !B0 * !B1 * !Y)	0.00018	0.00018	0.00018
	(A1 * !B0 * !B1 * !Y)	0.00003	0.00003	0.00003
	(A1 * !B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * !B1 * !Y)	-0.00029	-0.00028	-0.00028
	(!A1 * B1 * !C0 * !C1 * !Y)	0.00021	0.00021	0.00021
	(!A1 * B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B1 * !C0 * !C1 * !Y)	-0.00003	-0.00002	-0.00001
	(!A1 * B1 * !C0 * !C1 * !Y)	-0.00023	-0.00021	-0.00019
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	0.00021	0.00021	0.00021
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00002
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00003	-0.00002	-0.00001
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00023	-0.00021	-0.00019
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00021	0.00021	0.00021
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00024	-0.00022	-0.00020
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	0.00021	0.00021	0.00021
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00024	-0.00022	-0.00020
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00021	0.00021	0.00021
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00003	-0.00002	-0.00002
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00024	-0.00022	-0.00018

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X3H7H	**(A0 * B1 * C1 * Y)**	-0.00000	0.00000	0.00000
	(A0 * B1 * C1 * Y)	-0.00005	-0.00004	-0.00004
	(A0 * B1 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * B1 * C1 * Y)	0.00038	0.00038	0.00038
	(A0 * B1 * C0 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * B1 * C0 * !C1 * Y)	-0.00004	-0.00004	-0.00003
	(A0 * B1 * C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(A0 * B1 * C0 * !C1 * Y)	0.00037	0.00038	0.00038
	(A0 * B1 * !C0 * !C1 * !Y)	-0.00018	-0.00017	-0.00015
	(A0 * B1 * !C0 * !C1 * !Y)	-0.00003	-0.00003	-0.00002
	(A0 * B1 * !C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * B1 * !C0 * !C1 * !Y)	0.00026	0.00027	0.00028
	(A0 * B0 * !B1 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * !B1 * C1 * Y)	-0.00004	-0.00004	-0.00003
	(A0 * B0 * !B1 * C1 * Y)	0.00000	0.00001	0.00001
	(A0 * B0 * !B1 * C1 * Y)	0.00037	0.00038	0.00038
	(A0 * B0 * !B1 * C0 * !C1 * Y)	-0.00000	0.00000	0.00001
	(A0 * B0 * !B1 * C0 * !C1 * Y)	-0.00004	-0.00004	-0.00003
	(A0 * B0 * !B1 * C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(A0 * B0 * !B1 * C0 * !C1 * Y)	0.00037	0.00038	0.00038
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00018	-0.00017	-0.00015
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00003	-0.00003	-0.00002
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00001	0.00002
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00025	0.00026	0.00027
	(A0 * !B0 * !B1 * C1 * !Y)	-0.00018	-0.00017	-0.00015
	(A0 * !B0 * !B1 * C1 * !Y)	-0.00003	-0.00003	-0.00002
	(A0 * !B0 * !B1 * C1 * !Y)	0.00000	0.00000	0.00001
	(A0 * !B0 * !B1 * C1 * !Y)	0.00026	0.00027	0.00027
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00018	-0.00017	-0.00015
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00003	-0.00003	-0.00002
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00026	0.00027	0.00028
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00018	-0.00017	-0.00015
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00026	0.00026	0.00027
	(!A0 * B1 * !C0 * !C1 * !Y)	-0.00021	-0.00021	-0.00021
	(!A0 * B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B1 * !C0 * !C1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * B1 * !C0 * !C1 * !Y)	0.00021	0.00021	0.00022
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00021	-0.00021	-0.00021
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00021	0.00022	0.00022
	(!A0 * !B0 * !B1 * C1 * !Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * C1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !B0 * !B1 * C1 * !Y)	0.00021	0.00022	0.00023
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00021	0.00021	0.00022
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00020	0.00021	0.00022

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X3H7H	**(A0 * B1 * C1 * Y)**	-0.00000	-0.00000	0.00000
	(A0 * B1 * C1 * Y)	0.00004	0.00004	0.00005
	(A0 * B1 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B1 * C1 * Y)	-0.00038	-0.00038	-0.00037
	(A0 * B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !C1 * Y)	0.00004	0.00004	0.00005
	(A0 * B1 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B1 * C0 * !C1 * Y)	-0.00038	-0.00038	-0.00037
	(A0 * B1 * !C0 * !C1 * !Y)	0.00018	0.00018	0.00018
	(A0 * B1 * !C0 * !C1 * !Y)	0.00002	0.00003	0.00003
	(A0 * B1 * !C0 * !C1 * !Y)	-0.00001	-0.00000	0.00000
	(A0 * B1 * !C0 * !C1 * !Y)	-0.00027	-0.00026	-0.00026
	(A0 * B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00001
	(A0 * B0 * !B1 * C1 * Y)	0.00003	0.00004	0.00004
	(A0 * B0 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * !B1 * C1 * Y)	-0.00038	-0.00038	-0.00037
	(A0 * B0 * !B1 * C0 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C0 * !C1 * Y)	0.00003	0.00004	0.00004
	(A0 * B0 * !B1 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * !B1 * C0 * !C1 * Y)	-0.00038	-0.00038	-0.00037
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00018	0.00018	0.00018
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00002	0.00003	0.00003
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00027	-0.00026	-0.00025
	(A0 * !B0 * !B1 * C1 * !Y)	0.00018	0.00018	0.00018
	(A0 * !B0 * !B1 * C1 * !Y)	0.00003	0.00003	0.00003
	(A0 * !B0 * !B1 * C1 * !Y)	-0.00001	-0.00000	0.00000
	(A0 * !B0 * !B1 * C1 * !Y)	-0.00027	-0.00027	-0.00026
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00018	0.00018	0.00018
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00002	0.00003	0.00003
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00001	-0.00000	0.00000
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00027	-0.00027	-0.00026
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00018	0.00018	0.00018
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00003	0.00003	0.00003
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00000	0.00000
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00027	-0.00026	-0.00026
	(!A0 * B1 * !C0 * !C1 * !Y)	0.00021	0.00021	0.00021
	(!A0 * B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B1 * !C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * B1 * !C0 * !C1 * !Y)	-0.00021	-0.00020	-0.00017
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00021	0.00021	0.00021
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00021	-0.00020	-0.00018
	(!A0 * !B0 * !B1 * C1 * !Y)	0.00021	0.00021	0.00021
	(!A0 * !B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B0 * !B1 * C1 * !Y)	-0.00022	-0.00020	-0.00018
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00021	0.00021	0.00021
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00022	-0.00020	-0.00017
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00021	0.00021	0.00021
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00022	-0.00020	-0.00018

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X3H7H	**(A1 * B1 * C1 * Y)**	-0.00012	-0.00011	-0.00009
	(A1 * B1 * C1 * Y)	-0.00003	-0.00002	-0.00002
	(A1 * B1 * C1 * Y)	0.00000	0.00001	0.00002
	(A1 * B1 * C1 * Y)	0.00032	0.00032	0.00032
	(A1 * B1 * C0 * !C1 * Y)	-0.00012	-0.00011	-0.00010
	(A1 * B1 * C0 * !C1 * Y)	-0.00003	-0.00003	-0.00002
	(A1 * B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00001
	(A1 * B1 * C0 * !C1 * Y)	0.00032	0.00032	0.00033
	(A1 * !B1 * !C0 * !C1 * !Y)	-0.00018	-0.00017	-0.00017
	(A1 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00002	0.00003
	(A1 * !B1 * !C0 * !C1 * !Y)	0.00025	0.00026	0.00026
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	-0.00015	-0.00014	-0.00012
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	-0.00003	-0.00003	-0.00002
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	0.00029	0.00030	0.00030
	(A0 * !A1 * B1 * C1 * Y)	-0.00012	-0.00011	-0.00010
	(A0 * !A1 * B1 * C1 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * !A1 * B1 * C1 * Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * B1 * C1 * Y)	0.00032	0.00032	0.00033
	(A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00012	-0.00011	-0.00009
	(A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * !A1 * B1 * C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * B1 * C0 * !C1 * Y)	0.00032	0.00032	0.00033
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00018	-0.00017	-0.00017
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00002	0.00002
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00026	0.00026	0.00026
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00015	-0.00014	-0.00012
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B1 * C1 * !Y)	0.00004	0.00004	0.00005
	(!A0 * !A1 * B1 * C1 * !Y)	0.00010	0.00010	0.00010
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00015	-0.00014	-0.00013
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00004	0.00005	0.00005
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00010	0.00010	0.00010
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	-0.00015	-0.00014	-0.00013
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	0.00005	0.00006	0.00006
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	0.00010	0.00010	0.00010
	(!A0 * !A1 * !B1 * C1 * !Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !A1 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !B1 * C1 * !Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !B1 * C1 * !Y)	0.00010	0.00010	0.00010
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	0.00005	0.00005	0.00006
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	0.00009	0.00010	0.00010
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00006	0.00006	0.00007
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00009	0.00010	0.00010

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X3H7H	**(A1 * B1 * C1 * Y)**	0.00012	0.00012	0.00012
	(A1 * B1 * C1 * Y)	0.00002	0.00002	0.00003
	(A1 * B1 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B1 * C1 * Y)	-0.00032	-0.00032	-0.00032
	(A1 * B1 * C0 * !C1 * Y)	0.00012	0.00012	0.00012
	(A1 * B1 * C0 * !C1 * Y)	0.00002	0.00003	0.00003
	(A1 * B1 * C0 * !C1 * Y)	-0.00001	-0.00000	0.00000
	(A1 * B1 * C0 * !C1 * Y)	-0.00032	-0.00032	-0.00032
	(A1 * !B1 * !C0 * !C1 * !Y)	0.00018	0.00018	0.00018
	(A1 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * !B1 * !C0 * !C1 * !Y)	-0.00003	-0.00002	-0.00001
	(A1 * !B1 * !C0 * !C1 * !Y)	-0.00026	-0.00024	-0.00022
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	0.00014	0.00015	0.00015
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	0.00002	0.00003	0.00003
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	-0.00030	-0.00030	-0.00029
	(A0 * !A1 * B1 * C1 * Y)	0.00012	0.00012	0.00012
	(A0 * !A1 * B1 * C1 * Y)	0.00002	0.00003	0.00003
	(A0 * !A1 * B1 * C1 * Y)	-0.00001	-0.00000	0.00000
	(A0 * !A1 * B1 * C1 * Y)	-0.00032	-0.00032	-0.00032
	(A0 * !A1 * B1 * C0 * !C1 * Y)	0.00012	0.00012	0.00013
	(A0 * !A1 * B1 * C0 * !C1 * Y)	0.00002	0.00003	0.00003
	(A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00001	-0.00000	0.00000
	(A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00033	-0.00032	-0.00032
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00018	0.00018	0.00018
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00002	-0.00001	-0.00001
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00026	-0.00024	-0.00022
	(!A0 * !A1 * B1 * C1 * !Y)	0.00015	0.00015	0.00015
	(!A0 * !A1 * B1 * C1 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00005	-0.00004	-0.00004
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00015	0.00015	0.00015
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	0.00015	0.00015	0.00015
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !A1 * !B1 * C1 * !Y)	0.00018	0.00018	0.00018
	(!A0 * !A1 * !B1 * C1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !B1 * C1 * !Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !A1 * !B1 * C1 * !Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	0.00018	0.00018	0.00018
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	-0.00010	-0.00010	-0.00009
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00018	0.00018	0.00018
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00007	-0.00006	-0.00006
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00010	-0.00010	-0.00009

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X3H7H	**(A1 * B0 * C1 * Y)**	-0.00000	-0.00000	0.00000
	(A1 * B0 * C1 * Y)	-0.00004	-0.00004	-0.00003
	(A1 * B0 * C1 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * C1 * Y)	0.00034	0.00034	0.00034
	(A1 * B0 * C0 * !C1 * Y)	-0.00000	0.00000	0.00001
	(A1 * B0 * C0 * !C1 * Y)	-0.00005	-0.00004	-0.00003
	(A1 * B0 * C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * C0 * !C1 * Y)	0.00034	0.00034	0.00034
	(A1 * B0 * !C0 * !C1 * !Y)	-0.00015	-0.00014	-0.00012
	(A1 * B0 * !C0 * !C1 * !Y)	-0.00003	-0.00003	-0.00002
	(A1 * B0 * !C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !C0 * !C1 * !Y)	0.00026	0.00026	0.00027
	(A1 * !B0 * !C0 * !C1 * !Y)	-0.00018	-0.00018	-0.00018
	(A1 * !B0 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !C0 * !C1 * !Y)	0.00001	0.00002	0.00002
	(A1 * !B0 * !C0 * !C1 * !Y)	0.00022	0.00022	0.00022
	(A0 * !A1 * B0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * B0 * C1 * Y)	-0.00004	-0.00004	-0.00003
	(A0 * !A1 * B0 * C1 * Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * B0 * C1 * Y)	0.00034	0.00034	0.00034
	(A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00004	-0.00004	-0.00004
	(A0 * !A1 * B0 * C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B0 * C0 * !C1 * Y)	0.00034	0.00034	0.00034
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00015	-0.00014	-0.00012
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00003	-0.00003	-0.00002
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00002
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00024	0.00026	0.00026
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00018	-0.00018	-0.00018
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00001	0.00002	0.00002
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00022	0.00022	0.00023
	(!A0 * !A1 * B0 * C1 * !Y)	-0.00016	-0.00014	-0.00013
	(!A0 * !A1 * B0 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B0 * C1 * !Y)	0.00004	0.00005	0.00005
	(!A0 * !A1 * B0 * C1 * !Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00016	-0.00014	-0.00013
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00003	0.00005	0.00005
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00016	-0.00015	-0.00013
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00006	0.00006	0.00007
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00005	0.00006	0.00006
	(!A0 * !A1 * !B0 * C1 * !Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !A1 * !B0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * C1 * !Y)	0.00004	0.00005	0.00005
	(!A0 * !A1 * !B0 * C1 * !Y)	0.00005	0.00006	0.00006
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	0.00005	0.00006	0.00006
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00019	-0.00018	-0.00018
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00006	0.00006	0.00007
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00005	0.00006	0.00006

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X3H7H	**(A1 * B0 * C1 * Y)**	-0.00000	0.00000	0.00000
	(A1 * B0 * C1 * Y)	0.00004	0.00004	0.00005
	(A1 * B0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * C1 * Y)	-0.00034	-0.00034	-0.00034
	(A1 * B0 * C0 * !C1 * Y)	-0.00000	0.00000	0.00001
	(A1 * B0 * C0 * !C1 * Y)	0.00003	0.00004	0.00005
	(A1 * B0 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * C0 * !C1 * Y)	-0.00034	-0.00034	-0.00034
	(A1 * B0 * !C0 * !C1 * !Y)	0.00015	0.00015	0.00015
	(A1 * B0 * !C0 * !C1 * !Y)	0.00002	0.00003	0.00003
	(A1 * B0 * !C0 * !C1 * !Y)	-0.00001	-0.00000	0.00000
	(A1 * B0 * !C0 * !C1 * !Y)	-0.00026	-0.00026	-0.00025
	(A1 * !B0 * !C0 * !C1 * !Y)	0.00018	0.00018	0.00018
	(A1 * !B0 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * !B0 * !C0 * !C1 * !Y)	-0.00022	-0.00021	-0.00019
	(A0 * !A1 * B0 * C1 * Y)	0.00000	0.00000	0.00001
	(A0 * !A1 * B0 * C1 * Y)	0.00003	0.00004	0.00004
	(A0 * !A1 * B0 * C1 * Y)	-0.00001	-0.00001	0.00000
	(A0 * !A1 * B0 * C1 * Y)	-0.00034	-0.00034	-0.00034
	(A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00000	0.00000	0.00001
	(A0 * !A1 * B0 * C0 * !C1 * Y)	0.00004	0.00004	0.00004
	(A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00034	-0.00034	-0.00034
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00015	0.00015	0.00015
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00002	0.00003	0.00003
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00026	-0.00026	-0.00024
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00018	0.00018	0.00018
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00022	-0.00020	-0.00018
	(!A0 * !A1 * B0 * C1 * !Y)	0.00015	0.00015	0.00016
	(!A0 * !A1 * B0 * C1 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B0 * C1 * !Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !A1 * B0 * C1 * !Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00015	0.00016	0.00016
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00005	-0.00005	-0.00003
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00015	0.00015	0.00016
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !A1 * !B0 * C1 * !Y)	0.00018	0.00018	0.00019
	(!A0 * !A1 * !B0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * C1 * !Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !A1 * !B0 * C1 * !Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	0.00018	0.00018	0.00019
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00018	0.00018	0.00019
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00007	-0.00006	-0.00006
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00006	-0.00006	-0.00005

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X3H7H	**(A1 * B1 * C1 * Y)**	-0.00012	-0.00011	-0.00009
	(A1 * B1 * C1 * Y)	-0.00003	-0.00002	-0.00002
	(A1 * B1 * C1 * Y)	0.00001	0.00001	0.00001
	(A1 * B1 * C1 * Y)	0.00033	0.00034	0.00034
	(A1 * B0 * !B1 * C1 * Y)	-0.00012	-0.00011	-0.00008
	(A1 * B0 * !B1 * C1 * Y)	-0.00003	-0.00002	-0.00002
	(A1 * B0 * !B1 * C1 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !B1 * C1 * Y)	0.00033	0.00034	0.00034
	(A1 * !B0 * !B1 * C1 * !Y)	-0.00023	-0.00022	-0.00021
	(A1 * !B0 * !B1 * C1 * !Y)	-0.00003	-0.00003	-0.00002
	(A1 * !B0 * !B1 * C1 * !Y)	0.00002	0.00003	0.00004
	(A1 * !B0 * !B1 * C1 * !Y)	0.00010	0.00011	0.00011
	(A1 * !B0 * !B1 * !C1 * !Y)	-0.00026	-0.00026	-0.00025
	(A1 * !B0 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * !C1 * !Y)	0.00002	0.00003	0.00003
	(A1 * !B0 * !B1 * !C1 * !Y)	0.00010	0.00011	0.00012
	(A0 * !A1 * B1 * C1 * Y)	-0.00012	-0.00011	-0.00010
	(A0 * !A1 * B1 * C1 * Y)	-0.00003	-0.00002	-0.00002
	(A0 * !A1 * B1 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B1 * C1 * Y)	0.00033	0.00034	0.00034
	(A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00012	-0.00011	-0.00008
	(A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * !A1 * B0 * !B1 * C1 * Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * B0 * !B1 * C1 * Y)	0.00033	0.00033	0.00034
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00024	-0.00022	-0.00021
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00002	0.00003	0.00003
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00010	0.00011	0.00011
	(!A1 * !B0 * !B1 * !C1 * !Y)	-0.00026	-0.00026	-0.00025
	(!A1 * !B0 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * !C1 * !Y)	0.00002	0.00003	0.00003
	(!A1 * !B0 * !B1 * !C1 * !Y)	0.00010	0.00011	0.00012
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00024	-0.00023	-0.00021
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * B1 * C1 * !Y)	0.00003	0.00003	0.00004
	(!A0 * !A1 * B1 * C1 * !Y)	0.00010	0.00010	0.00010
	(!A0 * !A1 * B1 * !C1 * !Y)	-0.00026	-0.00026	-0.00025
	(!A0 * !A1 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * !C1 * !Y)	0.00002	0.00003	0.00004
	(!A0 * !A1 * B1 * !C1 * !Y)	0.00009	0.00010	0.00011
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00024	-0.00022	-0.00021
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00009	0.00010	0.00010
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	-0.00026	-0.00026	-0.00025
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	0.00003	0.00003	0.00004
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	0.00009	0.00010	0.00010

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X3H7H	**(A1 * B1 * C1 * Y)**	0.00012	0.00012	0.00012
	(A1 * B1 * C1 * Y)	0.00002	0.00002	0.00003
	(A1 * B1 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B1 * C1 * Y)	-0.00034	-0.00033	-0.00033
	(A1 * B0 * !B1 * C1 * Y)	0.00012	0.00012	0.00013
	(A1 * B0 * !B1 * C1 * Y)	0.00002	0.00002	0.00003
	(A1 * B0 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !B1 * C1 * Y)	-0.00033	-0.00033	-0.00033
	(A1 * !B0 * !B1 * C1 * !Y)	0.00023	0.00023	0.00024
	(A1 * !B0 * !B1 * C1 * !Y)	0.00002	0.00003	0.00003
	(A1 * !B0 * !B1 * C1 * !Y)	-0.00004	-0.00003	-0.00002
	(A1 * !B0 * !B1 * C1 * !Y)	-0.00011	-0.00011	-0.00010
	(A1 * !B0 * !B1 * !C1 * !Y)	0.00026	0.00026	0.00026
	(A1 * !B0 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * !C1 * !Y)	-0.00003	-0.00003	-0.00002
	(A1 * !B0 * !B1 * !C1 * !Y)	-0.00011	-0.00011	-0.00010
	(A0 * !A1 * B1 * C1 * Y)	0.00012	0.00012	0.00013
	(A0 * !A1 * B1 * C1 * Y)	0.00002	0.00002	0.00003
	(A0 * !A1 * B1 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B1 * C1 * Y)	-0.00034	-0.00033	-0.00033
	(A0 * !A1 * B0 * !B1 * C1 * Y)	0.00011	0.00012	0.00012
	(A0 * !A1 * B0 * !B1 * C1 * Y)	0.00002	0.00003	0.00003
	(A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00034	-0.00033	-0.00033
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00023	0.00023	0.00024
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00002	0.00003	0.00003
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00011	-0.00011	-0.00010
	(!A1 * !B0 * !B1 * !C1 * !Y)	0.00026	0.00026	0.00026
	(!A1 * !B0 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * !C1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A1 * !B0 * !B1 * !C1 * !Y)	-0.00011	-0.00011	-0.00010
	(!A0 * !A1 * B1 * C1 * !Y)	0.00023	0.00023	0.00024
	(!A0 * !A1 * B1 * C1 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00010	-0.00010	-0.00009
	(!A0 * !A1 * B1 * !C1 * !Y)	0.00026	0.00026	0.00026
	(!A0 * !A1 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * !C1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * B1 * !C1 * !Y)	-0.00011	-0.00010	-0.00009
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00023	0.00023	0.00024
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00010	-0.00010	-0.00009
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	0.00026	0.00026	0.00026
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	-0.00010	-0.00010	-0.00009

Passive power(pJ) for C1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X3H7H	**(A1 * B1 * C0 * Y)**	-0.00000	0.00000	0.00000
	(A1 * B1 * C0 * Y)	-0.00005	-0.00004	-0.00004
	(A1 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A1 * B1 * C0 * Y)	0.00038	0.00038	0.00039
	(A1 * B0 * !B1 * C0 * Y)	-0.00000	0.00000	0.00001
	(A1 * B0 * !B1 * C0 * Y)	-0.00004	-0.00004	-0.00003
	(A1 * B0 * !B1 * C0 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !B1 * C0 * Y)	0.00038	0.00038	0.00039
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00029	-0.00027	-0.00026
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00003	-0.00003	-0.00002
	(A1 * !B0 * !B1 * C0 * !Y)	0.00001	0.00002	0.00003
	(A1 * !B0 * !B1 * C0 * !Y)	0.00006	0.00006	0.00007
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00032	-0.00031	-0.00031
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00003	0.00003	0.00003
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00006	0.00006	0.00007
	(A0 * !A1 * B1 * C0 * Y)	-0.00001	-0.00000	0.00000
	(A0 * !A1 * B1 * C0 * Y)	-0.00004	-0.00004	-0.00003
	(A0 * !A1 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B1 * C0 * Y)	0.00038	0.00038	0.00039
	(A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00001	-0.00000	0.00001
	(A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00004	-0.00004	-0.00003
	(A0 * !A1 * B0 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B0 * !B1 * C0 * Y)	0.00038	0.00038	0.00039
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00029	-0.00027	-0.00026
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00002	0.00002	0.00003
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00006	0.00006	0.00007
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00031	-0.00031	-0.00031
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00002	0.00003	0.00003
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00006	0.00006	0.00007
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00029	-0.00027	-0.00026
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * B1 * C0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * B1 * C0 * !Y)	0.00005	0.00005	0.00006
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00031	-0.00031	-0.00031
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00005	0.00005	0.00006
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00029	-0.00027	-0.00026
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00003	0.00003	0.00004
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	-0.00031	-0.00031	-0.00031
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	0.00003	0.00003	0.00004
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	0.00004	0.00005	0.00005

Passive power(pJ) for C1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X3H7H	**(A1 * B1 * C0 * Y)**	-0.00000	0.00000	0.00000
	(A1 * B1 * C0 * Y)	0.00004	0.00004	0.00005
	(A1 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B1 * C0 * Y)	-0.00039	-0.00038	-0.00038
	(A1 * B0 * !B1 * C0 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * !B1 * C0 * Y)	0.00003	0.00004	0.00004
	(A1 * B0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !B1 * C0 * Y)	-0.00039	-0.00038	-0.00038
	(A1 * !B0 * !B1 * C0 * !Y)	0.00028	0.00028	0.00029
	(A1 * !B0 * !B1 * C0 * !Y)	0.00002	0.00003	0.00003
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00003	-0.00002	-0.00001
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00006	-0.00006	-0.00005
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00031	0.00031	0.00032
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00003	-0.00003	-0.00002
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00007	-0.00006	-0.00006
	(A0 * !A1 * B1 * C0 * Y)	-0.00000	0.00000	0.00001
	(A0 * !A1 * B1 * C0 * Y)	0.00003	0.00004	0.00004
	(A0 * !A1 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B1 * C0 * Y)	-0.00039	-0.00038	-0.00038
	(A0 * !A1 * B0 * !B1 * C0 * Y)	0.00000	0.00000	0.00001
	(A0 * !A1 * B0 * !B1 * C0 * Y)	0.00003	0.00004	0.00004
	(A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00039	-0.00038	-0.00038
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00028	0.00028	0.00029
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00003	-0.00002	-0.00002
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00006	-0.00006	-0.00006
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00031	0.00031	0.00031
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * B1 * C0 * !Y)	0.00028	0.00028	0.00029
	(!A0 * !A1 * B1 * C0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00031	0.00031	0.00031
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00028	0.00028	0.00029
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	0.00031	0.00031	0.00032
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	-0.00005	-0.00005	-0.00004

OA222X4H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

OA222 (Y = (A0 + A1) • (B0 + B1) • (C0 + C1))

Truth Table

INPUT						OUTPUT
A0	A1	B0	B1	C0	C1	Y
0	0	x	x	x	x	0
x	1	0	0	x	x	0
x	1	x	1	0	0	0
x	1	x	1	x	1	1
x	1	x	1	1	x	1
x	1	1	x	0	0	0
x	1	1	x	x	1	1
x	1	1	x	1	x	1
1	x	0	0	x	x	0
1	x	x	1	0	0	0
1	x	x	1	x	1	1
1	x	x	1	1	x	1
1	x	1	x	0	0	0
1	x	1	x	x	1	1
1	x	1	x	1	x	1

Footprint

Cell Name	Area
OA222X4H7H	3.92000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	**A1**	**B0**	**B1**	**C0**	**C1**	**Y**
OA222X4H7H	0.00104	0.00109	0.00100	0.00104	0.00099	0.00115	0.10776

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
OA222X4H7H	0.00000	0.05422	0.07040

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA222X4H7H	A0->Y (RR)	0.15091	0.34554	0.80983
	A1->Y (RR)	0.14474	0.33831	0.79990
	B0->Y (RR)	0.14267	0.33948	0.81312
	B1->Y (RR)	0.13639	0.33197	0.80199
	C0->Y (RR)	0.12453	0.31554	0.77383
	C1->Y (RR)	0.12059	0.30994	0.76374

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA222X4H7H	A0->Y (FF)	0.14136	0.31838	0.72169
	A1->Y (FF)	0.13732	0.31250	0.71557
	B0->Y (FF)	0.12869	0.30292	0.69943
	B1->Y (FF)	0.12460	0.29702	0.69329
	C0->Y (FF)	0.11189	0.28247	0.66977
	C1->Y (FF)	0.10982	0.27839	0.66605

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA222X4H7H	A0	0.00112	0.00124	0.00136
	A0	0.00026	0.00026	0.00028
	A0	-0.00020	-0.00020	-0.00020
	A0	0.00384	0.00396	0.00408
	A1	0.00112	0.00125	0.00138
	A1	0.00019	0.00019	0.00019
	A1	-0.00020	-0.00020	-0.00020
	A1	0.00365	0.00377	0.00389
	B0	0.00114	0.00124	0.00136
	B0	0.00026	0.00026	0.00026
	B0	-0.00011	-0.00010	-0.00007
	B0	0.00336	0.00346	0.00358
	B1	0.00114	0.00125	0.00138
	B1	0.00019	0.00019	0.00019
	B1	-0.00011	-0.00010	-0.00009
	B1	0.00315	0.00325	0.00337
	C0	0.00112	0.00123	0.00136
	C0	0.00026	0.00026	0.00026
	C0	0.00001	0.00001	0.00002
	C0	0.00286	0.00297	0.00310
	C1	0.00111	0.00123	0.00138
	C1	0.00017	0.00019	0.00019
	C1	0.00001	0.00001	0.00005
	C1	0.00268	0.00279	0.00294

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA222X4H7H	A0	0.00400	0.00412	0.00425
	A0	-0.00012	-0.00012	-0.00010
	A0	0.00022	0.00022	0.00022
	A0	0.00140	0.00151	0.00164
	A1	0.00378	0.00389	0.00402
	A1	-0.00005	-0.00004	-0.00001
	A1	0.00022	0.00022	0.00022
	A1	0.00141	0.00152	0.00165
	B0	0.00362	0.00374	0.00386
	B0	-0.00012	-0.00012	-0.00009
	B0	0.00011	0.00011	0.00012
	B0	0.00139	0.00151	0.00163
	B1	0.00340	0.00351	0.00364
	B1	-0.00004	-0.00004	-0.00002
	B1	0.00010	0.00010	0.00013
	B1	0.00143	0.00154	0.00167
	C0	0.00315	0.00328	0.00340
	C0	-0.00012	-0.00012	-0.00011
	C0	-0.00001	-0.00001	0.00000
	C0	0.00130	0.00143	0.00154
	C1	0.00296	0.00309	0.00322
	C1	-0.00005	-0.00004	-0.00003
	C1	-0.00001	-0.00001	0.00000
	C1	0.00133	0.00145	0.00159

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X4H7H	**(A1 * B1 * C1 * Y)**	-0.00014	-0.00012	-0.00010
	(A1 * B1 * C1 * Y)	-0.00003	-0.00003	-0.00002
	(A1 * B1 * C1 * Y)	0.00000	0.00001	0.00001
	(A1 * B1 * C1 * Y)	0.00036	0.00036	0.00036
	(A1 * B1 * C0 * !C1 * Y)	-0.00014	-0.00013	-0.00010
	(A1 * B1 * C0 * !C1 * Y)	-0.00003	-0.00003	-0.00002
	(A1 * B1 * C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A1 * B1 * C0 * !C1 * Y)	0.00036	0.00036	0.00036
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	-0.00019	-0.00018	-0.00016
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	0.00030	0.00030	0.00031
	(A1 * B0 * !B1 * C1 * Y)	-0.00014	-0.00012	-0.00010
	(A1 * B0 * !B1 * C1 * Y)	-0.00004	-0.00003	-0.00002
	(A1 * B0 * !B1 * C1 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !B1 * C1 * Y)	0.00036	0.00036	0.00036
	(A1 * B0 * !B1 * C0 * !C1 * Y)	-0.00014	-0.00013	-0.00011
	(A1 * B0 * !B1 * C0 * !C1 * Y)	-0.00003	-0.00003	-0.00002
	(A1 * B0 * !B1 * C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !B1 * C0 * !C1 * Y)	0.00036	0.00036	0.00037
	(A1 * !B0 * !B1 * !Y)	-0.00019	-0.00018	-0.00016
	(A1 * !B0 * !B1 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * !B1 * !Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * !B1 * !Y)	0.00030	0.00030	0.00030
	(!A1 * B1 * !C0 * !C1 * !Y)	-0.00022	-0.00022	-0.00022
	(!A1 * B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B1 * !C0 * !C1 * !Y)	0.00002	0.00002	0.00003
	(!A1 * B1 * !C0 * !C1 * !Y)	0.00024	0.00024	0.00025
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00022	-0.00022	-0.00022
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	0.00002	0.00003	0.00004
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	0.00023	0.00024	0.00025
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00022	-0.00022	-0.00022
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00002	0.00002	0.00003
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00025	0.00025	0.00026
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00022	-0.00022	-0.00022
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	0.00025	0.00025	0.00026
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00022	-0.00022	-0.00022
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00025	0.00025	0.00026

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X4H7H	**(A1 * B1 * C1 * Y)**	0.00013	0.00014	0.00014
	(A1 * B1 * C1 * Y)	0.00002	0.00003	0.00003
	(A1 * B1 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B1 * C1 * Y)	-0.00036	-0.00036	-0.00035
	(A1 * B1 * C0 * !C1 * Y)	0.00013	0.00014	0.00014
	(A1 * B1 * C0 * !C1 * Y)	0.00002	0.00003	0.00003
	(A1 * B1 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * C0 * !C1 * Y)	-0.00036	-0.00036	-0.00035
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	0.00018	0.00019	0.00019
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	0.00003	0.00003	0.00003
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	-0.00030	-0.00030	-0.00029
	(A1 * B0 * !B1 * C1 * Y)	0.00013	0.00014	0.00014
	(A1 * B0 * !B1 * C1 * Y)	0.00002	0.00003	0.00004
	(A1 * B0 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !B1 * C1 * Y)	-0.00036	-0.00036	-0.00035
	(A1 * B0 * !B1 * C0 * !C1 * Y)	0.00014	0.00014	0.00014
	(A1 * B0 * !B1 * C0 * !C1 * Y)	0.00002	0.00003	0.00003
	(A1 * B0 * !B1 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !B1 * C0 * !C1 * Y)	-0.00036	-0.00036	-0.00035
	(A1 * !B0 * !B1 * !Y)	0.00019	0.00019	0.00019
	(A1 * !B0 * !B1 * !Y)	0.00003	0.00003	0.00003
	(A1 * !B0 * !B1 * !Y)	-0.00001	-0.00001	0.00000
	(A1 * !B0 * !B1 * !Y)	-0.00030	-0.00030	-0.00030
	(!A1 * B1 * !C0 * !C1 * !Y)	0.00022	0.00022	0.00022
	(!A1 * B1 * !C0 * !C1 * !Y)	0.00001	0.00002	0.00002
	(!A1 * B1 * !C0 * !C1 * !Y)	-0.00003	-0.00002	-0.00002
	(!A1 * B1 * !C0 * !C1 * !Y)	-0.00025	-0.00023	-0.00020
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	0.00022	0.00022	0.00022
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00004	-0.00003	-0.00002
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00025	-0.00023	-0.00019
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00022	0.00022	0.00022
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00003	-0.00002	-0.00002
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00025	-0.00023	-0.00021
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	0.00022	0.00022	0.00022
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00001	0.00002
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00025	-0.00023	-0.00020
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00022	0.00022	0.00022
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00025	-0.00023	-0.00022

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X4H7H	**(A0 * B1 * C1 * Y)**	-0.00001	-0.00000	0.00000
	(A0 * B1 * C1 * Y)	-0.00005	-0.00004	-0.00004
	(A0 * B1 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * B1 * C1 * Y)	0.00040	0.00040	0.00040
	(A0 * B1 * C0 * !C1 * Y)	-0.00000	0.00000	0.00001
	(A0 * B1 * C0 * !C1 * Y)	-0.00006	-0.00005	-0.00004
	(A0 * B1 * C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * B1 * C0 * !C1 * Y)	0.00040	0.00040	0.00040
	(A0 * B1 * !C0 * !C1 * !Y)	-0.00019	-0.00018	-0.00016
	(A0 * B1 * !C0 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * B1 * !C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * B1 * !C0 * !C1 * !Y)	0.00028	0.00028	0.00029
	(A0 * B0 * !B1 * C1 * Y)	-0.00000	0.00000	0.00001
	(A0 * B0 * !B1 * C1 * Y)	-0.00005	-0.00005	-0.00004
	(A0 * B0 * !B1 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !B1 * C1 * Y)	0.00040	0.00040	0.00040
	(A0 * B0 * !B1 * C0 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * !B1 * C0 * !C1 * Y)	-0.00005	-0.00004	-0.00004
	(A0 * B0 * !B1 * C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(A0 * B0 * !B1 * C0 * !C1 * Y)	0.00039	0.00040	0.00040
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00019	-0.00018	-0.00016
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00001	0.00001	0.00001
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00028	0.00028	0.00029
	(A0 * !B0 * !B1 * C1 * !Y)	-0.00019	-0.00018	-0.00016
	(A0 * !B0 * !B1 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * !B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00002
	(A0 * !B0 * !B1 * C1 * !Y)	0.00027	0.00028	0.00028
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00019	-0.00018	-0.00016
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00028	0.00028	0.00029
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00019	-0.00018	-0.00016
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00027	0.00028	0.00028
	(!A0 * B1 * !C0 * !C1 * !Y)	-0.00023	-0.00023	-0.00023
	(!A0 * B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B1 * !C0 * !C1 * !Y)	0.00002	0.00002	0.00003
	(!A0 * B1 * !C0 * !C1 * !Y)	0.00021	0.00022	0.00023
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00023	-0.00023	-0.00023
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00002	0.00003	0.00004
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00021	0.00022	0.00023
	(!A0 * !B0 * !B1 * C1 * !Y)	-0.00023	-0.00023	-0.00022
	(!A0 * !B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * C1 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !B0 * !B1 * C1 * !Y)	0.00022	0.00023	0.00023
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00023	-0.00023	-0.00023
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00023	0.00023	0.00023
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00023	-0.00023	-0.00022
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00023	0.00023	0.00024

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X4H7H	**(A0 * B1 * C1 * Y)**	0.00000	0.00000	0.00001
	(A0 * B1 * C1 * Y)	0.00004	0.00005	0.00005
	(A0 * B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * C1 * Y)	-0.00040	-0.00040	-0.00040
	(A0 * B1 * C0 * !C1 * Y)	-0.00000	0.00000	0.00001
	(A0 * B1 * C0 * !C1 * Y)	0.00004	0.00005	0.00006
	(A0 * B1 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * C0 * !C1 * Y)	-0.00040	-0.00040	-0.00040
	(A0 * B1 * !C0 * !C1 * !Y)	0.00019	0.00019	0.00019
	(A0 * B1 * !C0 * !C1 * !Y)	0.00003	0.00003	0.00003
	(A0 * B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	0.00000
	(A0 * B1 * !C0 * !C1 * !Y)	-0.00028	-0.00028	-0.00027
	(A0 * B0 * !B1 * C1 * Y)	-0.00001	-0.00000	0.00000
	(A0 * B0 * !B1 * C1 * Y)	0.00005	0.00005	0.00006
	(A0 * B0 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !B1 * C1 * Y)	-0.00040	-0.00040	-0.00039
	(A0 * B0 * !B1 * C0 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C0 * !C1 * Y)	0.00005	0.00005	0.00006
	(A0 * B0 * !B1 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * !B1 * C0 * !C1 * Y)	-0.00040	-0.00040	-0.00039
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00019	0.00019	0.00019
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00003	0.00003	0.00003
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00000	0.00001
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00029	-0.00028	-0.00027
	(A0 * !B0 * !B1 * C1 * !Y)	0.00019	0.00019	0.00019
	(A0 * !B0 * !B1 * C1 * !Y)	0.00003	0.00003	0.00003
	(A0 * !B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * !B1 * C1 * !Y)	-0.00028	-0.00028	-0.00027
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00019	0.00019	0.00019
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00003	0.00003	0.00003
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00001	-0.00000	0.00000
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00028	-0.00028	-0.00027
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00019	0.00019	0.00019
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00003	0.00003	0.00003
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00000	0.00000
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00028	-0.00028	-0.00027
	(!A0 * B1 * !C0 * !C1 * !Y)	0.00023	0.00023	0.00023
	(!A0 * B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B1 * !C0 * !C1 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * B1 * !C0 * !C1 * !Y)	-0.00022	-0.00020	-0.00017
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00023	0.00023	0.00023
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00004	-0.00003	-0.00002
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00023	-0.00021	-0.00018
	(!A0 * !B0 * !B1 * C1 * !Y)	0.00023	0.00023	0.00023
	(!A0 * !B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * C1 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * !B0 * !B1 * C1 * !Y)	-0.00023	-0.00021	-0.00018
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00023	0.00023	0.00023
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00023	-0.00021	-0.00019
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00022	0.00023	0.00023
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00023	-0.00021	-0.00018

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X4H7H	**(A1 * B1 * C1 * Y)**	-0.00013	-0.00012	-0.00011
	(A1 * B1 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * B1 * C1 * Y)	0.00001	0.00001	0.00002
	(A1 * B1 * C1 * Y)	0.00034	0.00034	0.00034
	(A1 * B1 * C0 * !C1 * Y)	-0.00013	-0.00012	-0.00010
	(A1 * B1 * C0 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * B1 * C0 * !C1 * Y)	0.00001	0.00001	0.00002
	(A1 * B1 * C0 * !C1 * Y)	0.00034	0.00034	0.00034
	(A1 * !B1 * !C0 * !C1 * !Y)	-0.00019	-0.00019	-0.00019
	(A1 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00002	0.00002
	(A1 * !B1 * !C0 * !C1 * !Y)	0.00027	0.00027	0.00028
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	-0.00016	-0.00015	-0.00013
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	0.00031	0.00031	0.00032
	(A0 * !A1 * B1 * C1 * Y)	-0.00013	-0.00012	-0.00011
	(A0 * !A1 * B1 * C1 * Y)	-0.00004	-0.00003	-0.00003
	(A0 * !A1 * B1 * C1 * Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * B1 * C1 * Y)	0.00034	0.00034	0.00035
	(A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00013	-0.00012	-0.00011
	(A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * !A1 * B1 * C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * B1 * C0 * !C1 * Y)	0.00034	0.00034	0.00034
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00019	-0.00019	-0.00019
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00002	0.00002
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00027	0.00027	0.00027
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00017	-0.00015	-0.00014
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B1 * C1 * !Y)	0.00005	0.00005	0.00006
	(!A0 * !A1 * B1 * C1 * !Y)	0.00010	0.00010	0.00010
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00017	-0.00015	-0.00013
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00010	0.00010	0.00010
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	-0.00017	-0.00015	-0.00014
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	0.00006	0.00007	0.00007
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	0.00010	0.00010	0.00010
	(!A0 * !A1 * !B1 * C1 * !Y)	-0.00020	-0.00019	-0.00019
	(!A0 * !A1 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B1 * C1 * !Y)	0.00005	0.00006	0.00007
	(!A0 * !A1 * !B1 * C1 * !Y)	0.00009	0.00010	0.00010
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	-0.00020	-0.00019	-0.00019
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	0.00005	0.00006	0.00007
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	0.00010	0.00010	0.00010
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00020	-0.00020	-0.00019
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00007	0.00007	0.00008
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00009	0.00010	0.00010

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X4H7H	**(A1 * B1 * C1 * Y)**	0.00013	0.00014	0.00014
	(A1 * B1 * C1 * Y)	0.00003	0.00003	0.00003
	(A1 * B1 * C1 * Y)	-0.00001	-0.00000	0.00001
	(A1 * B1 * C1 * Y)	-0.00034	-0.00034	-0.00034
	(A1 * B1 * C0 * !C1 * Y)	0.00013	0.00014	0.00014
	(A1 * B1 * C0 * !C1 * Y)	0.00003	0.00003	0.00003
	(A1 * B1 * C0 * !C1 * Y)	-0.00002	-0.00001	-0.00001
	(A1 * B1 * C0 * !C1 * Y)	-0.00034	-0.00034	-0.00033
	(A1 * !B1 * !C0 * !C1 * !Y)	0.00019	0.00019	0.00020
	(A1 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00002
	(A1 * !B1 * !C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * !B1 * !C0 * !C1 * !Y)	-0.00027	-0.00026	-0.00024
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	0.00016	0.00016	0.00016
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	0.00003	0.00003	0.00003
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	-0.00031	-0.00031	-0.00031
	(A0 * !A1 * B1 * C1 * Y)	0.00013	0.00013	0.00014
	(A0 * !A1 * B1 * C1 * Y)	0.00003	0.00003	0.00004
	(A0 * !A1 * B1 * C1 * Y)	-0.00001	-0.00000	0.00000
	(A0 * !A1 * B1 * C1 * Y)	-0.00034	-0.00034	-0.00034
	(A0 * !A1 * B1 * C0 * !C1 * Y)	0.00013	0.00014	0.00014
	(A0 * !A1 * B1 * C0 * !C1 * Y)	0.00002	0.00003	0.00003
	(A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00001	-0.00000	0.00000
	(A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00034	-0.00034	-0.00034
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00019	0.00019	0.00020
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00027	-0.00025	-0.00022
	(!A0 * !A1 * B1 * C1 * !Y)	0.00017	0.00017	0.00017
	(!A0 * !A1 * B1 * C1 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00016	0.00017	0.00017
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	0.00016	0.00016	0.00017
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	-0.00007	-0.00007	-0.00006
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	-0.00010	-0.00010	-0.00009
	(!A0 * !A1 * !B1 * C1 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !A1 * !B1 * C1 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !A1 * !B1 * C1 * !Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !A1 * !B1 * C1 * !Y)	-0.00010	-0.00010	-0.00009
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	0.00019	0.00020	0.00020
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	-0.00010	-0.00010	-0.00009
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00007	-0.00007	-0.00006
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00010	-0.00010	-0.00009

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X4H7H	**(A1 * B0 * C1 * Y)**	-0.00000	0.00000	0.00001
	(A1 * B0 * C1 * Y)	-0.00005	-0.00005	-0.00004
	(A1 * B0 * C1 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * C1 * Y)	0.00036	0.00036	0.00036
	(A1 * B0 * C0 * !C1 * Y)	-0.00000	0.00000	0.00001
	(A1 * B0 * C0 * !C1 * Y)	-0.00005	-0.00004	-0.00004
	(A1 * B0 * C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * C0 * !C1 * Y)	0.00036	0.00036	0.00036
	(A1 * B0 * !C0 * !C1 * !Y)	-0.00016	-0.00015	-0.00013
	(A1 * B0 * !C0 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00002
	(A1 * B0 * !C0 * !C1 * !Y)	0.00026	0.00027	0.00027
	(A1 * !B0 * !C0 * !C1 * !Y)	-0.00020	-0.00020	-0.00020
	(A1 * !B0 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !C0 * !C1 * !Y)	0.00002	0.00002	0.00003
	(A1 * !B0 * !C0 * !C1 * !Y)	0.00022	0.00023	0.00023
	(A0 * !A1 * B0 * C1 * Y)	-0.00000	0.00000	0.00001
	(A0 * !A1 * B0 * C1 * Y)	-0.00005	-0.00005	-0.00004
	(A0 * !A1 * B0 * C1 * Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * B0 * C1 * Y)	0.00036	0.00036	0.00036
	(A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00005	-0.00005	-0.00004
	(A0 * !A1 * B0 * C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * B0 * C0 * !C1 * Y)	0.00036	0.00036	0.00036
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00016	-0.00015	-0.00013
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00000	0.00001	0.00002
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00027	0.00027	0.00028
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00020	-0.00020	-0.00020
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00002	-0.00001	-0.00001
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00001	0.00002	0.00002
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00023	0.00023	0.00024
	(!A0 * !A1 * B0 * C1 * !Y)	-0.00017	-0.00016	-0.00014
	(!A0 * !A1 * B0 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B0 * C1 * !Y)	0.00005	0.00005	0.00006
	(!A0 * !A1 * B0 * C1 * !Y)	0.00005	0.00006	0.00006
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00017	-0.00016	-0.00014
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00005	0.00005	0.00006
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00005	0.00006	0.00006
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00017	-0.00016	-0.00014
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00005	0.00006	0.00006
	(!A0 * !A1 * !B0 * C1 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !A1 * !B0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * C1 * !Y)	0.00004	0.00005	0.00006
	(!A0 * !A1 * !B0 * C1 * !Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	0.00004	0.00006	0.00006
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00005	0.00007	0.00007
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00006	0.00006	0.00007

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X4H7H	**(A1 * B0 * C1 * Y)**	-0.00000	0.00000	0.00001
	(A1 * B0 * C1 * Y)	0.00004	0.00005	0.00005
	(A1 * B0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * C1 * Y)	-0.00036	-0.00036	-0.00036
	(A1 * B0 * C0 * !C1 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * C0 * !C1 * Y)	0.00004	0.00005	0.00005
	(A1 * B0 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * C0 * !C1 * Y)	-0.00036	-0.00036	-0.00036
	(A1 * B0 * !C0 * !C1 * !Y)	0.00016	0.00016	0.00016
	(A1 * B0 * !C0 * !C1 * !Y)	0.00003	0.00003	0.00003
	(A1 * B0 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !C0 * !C1 * !Y)	-0.00027	-0.00027	-0.00026
	(A1 * !B0 * !C0 * !C1 * !Y)	0.00020	0.00020	0.00020
	(A1 * !B0 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00002
	(A1 * !B0 * !C0 * !C1 * !Y)	-0.00003	-0.00002	-0.00002
	(A1 * !B0 * !C0 * !C1 * !Y)	-0.00023	-0.00021	-0.00019
	(A0 * !A1 * B0 * C1 * Y)	-0.00001	0.00000	0.00001
	(A0 * !A1 * B0 * C1 * Y)	0.00004	0.00005	0.00006
	(A0 * !A1 * B0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B0 * C1 * Y)	-0.00036	-0.00036	-0.00036
	(A0 * !A1 * B0 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C0 * !C1 * Y)	0.00004	0.00005	0.00006
	(A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00001	-0.00001	0.00000
	(A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00036	-0.00036	-0.00036
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00016	0.00016	0.00016
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00003	0.00003	0.00003
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00027	-0.00027	-0.00027
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00020	0.00020	0.00020
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00002
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00023	-0.00021	-0.00018
	(!A0 * !A1 * B0 * C1 * !Y)	0.00017	0.00017	0.00017
	(!A0 * !A1 * B0 * C1 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B0 * C1 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B0 * C1 * !Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00017	0.00017	0.00017
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00006	-0.00005	-0.00005
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00017	0.00017	0.00017
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00007	-0.00006	-0.00006
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !A1 * !B0 * C1 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !A1 * !B0 * C1 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !A1 * !B0 * C1 * !Y)	-0.00006	-0.00005	-0.00004
	(!A0 * !A1 * !B0 * C1 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	-0.00006	-0.00005	-0.00004
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00007	-0.00007	-0.00005
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00007	-0.00006	-0.00006

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X4H7H	**(A1 * B1 * C1 * Y)**	-0.00014	-0.00012	-0.00010
	(A1 * B1 * C1 * Y)	-0.00003	-0.00003	-0.00002
	(A1 * B1 * C1 * Y)	0.00001	0.00001	0.00001
	(A1 * B1 * C1 * Y)	0.00035	0.00035	0.00035
	(A1 * B0 * !B1 * C1 * Y)	-0.00014	-0.00012	-0.00010
	(A1 * B0 * !B1 * C1 * Y)	-0.00003	-0.00003	-0.00002
	(A1 * B0 * !B1 * C1 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !B1 * C1 * Y)	0.00035	0.00035	0.00035
	(A1 * !B0 * !B1 * C1 * !Y)	-0.00026	-0.00024	-0.00023
	(A1 * !B0 * !B1 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * !B1 * C1 * !Y)	0.00003	0.00003	0.00003
	(A1 * !B0 * !B1 * C1 * !Y)	0.00010	0.00011	0.00011
	(A1 * !B0 * !B1 * !C1 * !Y)	-0.00029	-0.00028	-0.00028
	(A1 * !B0 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * !C1 * !Y)	0.00003	0.00003	0.00004
	(A1 * !B0 * !B1 * !C1 * !Y)	0.00010	0.00011	0.00011
	(A0 * !A1 * B1 * C1 * Y)	-0.00014	-0.00012	-0.00011
	(A0 * !A1 * B1 * C1 * Y)	-0.00004	-0.00003	-0.00003
	(A0 * !A1 * B1 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B1 * C1 * Y)	0.00035	0.00035	0.00035
	(A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00013	-0.00012	-0.00011
	(A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * !A1 * B0 * !B1 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B0 * !B1 * C1 * Y)	0.00035	0.00035	0.00035
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00026	-0.00024	-0.00023
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00003	0.00003	0.00004
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00010	0.00010	0.00011
	(!A1 * !B0 * !B1 * !C1 * !Y)	-0.00028	-0.00028	-0.00028
	(!A1 * !B0 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * !C1 * !Y)	0.00003	0.00003	0.00004
	(!A1 * !B0 * !B1 * !C1 * !Y)	0.00010	0.00011	0.00012
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00026	-0.00024	-0.00023
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B1 * C1 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B1 * C1 * !Y)	0.00010	0.00010	0.00010
	(!A0 * !A1 * B1 * !C1 * !Y)	-0.00028	-0.00028	-0.00028
	(!A0 * !A1 * B1 * !C1 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !A1 * B1 * !C1 * !Y)	0.00002	0.00004	0.00004
	(!A0 * !A1 * B1 * !C1 * !Y)	0.00009	0.00010	0.00011
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00026	-0.00024	-0.00023
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00003	0.00003	0.00004
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00009	0.00010	0.00010
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	-0.00028	-0.00028	-0.00028
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	0.00003	0.00003	0.00004
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	0.00010	0.00010	0.00010

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X4H7H	**(A1 * B1 * C1 * Y)**	0.00013	0.00014	0.00014
	(A1 * B1 * C1 * Y)	0.00002	0.00003	0.00003
	(A1 * B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * C1 * Y)	-0.00035	-0.00035	-0.00035
	(A1 * B0 * !B1 * C1 * Y)	0.00013	0.00014	0.00014
	(A1 * B0 * !B1 * C1 * Y)	0.00002	0.00003	0.00003
	(A1 * B0 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !B1 * C1 * Y)	-0.00035	-0.00035	-0.00035
	(A1 * !B0 * !B1 * C1 * !Y)	0.00025	0.00026	0.00026
	(A1 * !B0 * !B1 * C1 * !Y)	0.00003	0.00003	0.00003
	(A1 * !B0 * !B1 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * !B1 * C1 * !Y)	-0.00010	-0.00010	-0.00009
	(A1 * !B0 * !B1 * !C1 * !Y)	0.00028	0.00028	0.00029
	(A1 * !B0 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * !C1 * !Y)	-0.00003	-0.00003	-0.00002
	(A1 * !B0 * !B1 * !C1 * !Y)	-0.00011	-0.00010	-0.00010
	(A0 * !A1 * B1 * C1 * Y)	0.00013	0.00013	0.00014
	(A0 * !A1 * B1 * C1 * Y)	0.00003	0.00003	0.00004
	(A0 * !A1 * B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B1 * C1 * Y)	-0.00035	-0.00035	-0.00034
	(A0 * !A1 * B0 * !B1 * C1 * Y)	0.00013	0.00014	0.00014
	(A0 * !A1 * B0 * !B1 * C1 * Y)	0.00002	0.00003	0.00003
	(A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00035	-0.00035	-0.00034
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00025	0.00026	0.00026
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00004	-0.00003	-0.00003
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00010	-0.00010	-0.00010
	(!A1 * !B0 * !B1 * !C1 * !Y)	0.00028	0.00028	0.00029
	(!A1 * !B0 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * !B1 * !C1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A1 * !B0 * !B1 * !C1 * !Y)	-0.00011	-0.00010	-0.00010
	(!A0 * !A1 * B1 * C1 * !Y)	0.00025	0.00026	0.00026
	(!A0 * !A1 * B1 * C1 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00010	-0.00010	-0.00009
	(!A0 * !A1 * B1 * !C1 * !Y)	0.00028	0.00028	0.00029
	(!A0 * !A1 * B1 * !C1 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !A1 * B1 * !C1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * B1 * !C1 * !Y)	-0.00011	-0.00010	-0.00009
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00025	0.00026	0.00026
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00010	-0.00010	-0.00009
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	0.00028	0.00028	0.00029
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	-0.00010	-0.00010	-0.00010

Passive power(pJ) for C1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X4H7H	**(A1 * B1 * C0 * Y)**	-0.00000	-0.00000	0.00000
	(A1 * B1 * C0 * Y)	-0.00005	-0.00004	-0.00004
	(A1 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A1 * B1 * C0 * Y)	0.00041	0.00041	0.00041
	(A1 * B0 * !B1 * C0 * Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C0 * Y)	-0.00005	-0.00004	-0.00004
	(A1 * B0 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !B1 * C0 * Y)	0.00041	0.00041	0.00041
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00031	-0.00030	-0.00028
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * !B1 * C0 * !Y)	0.00002	0.00003	0.00003
	(A1 * !B0 * !B1 * C0 * !Y)	0.00006	0.00006	0.00006
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00034	-0.00034	-0.00033
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00002	0.00003	0.00004
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00006	0.00006	0.00007
	(A0 * !A1 * B1 * C0 * Y)	-0.00000	0.00000	0.00001
	(A0 * !A1 * B1 * C0 * Y)	-0.00005	-0.00004	-0.00004
	(A0 * !A1 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B1 * C0 * Y)	0.00041	0.00041	0.00041
	(A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00000	0.00000	0.00001
	(A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00006	-0.00005	-0.00004
	(A0 * !A1 * B0 * !B1 * C0 * Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * B0 * !B1 * C0 * Y)	0.00040	0.00041	0.00041
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00031	-0.00030	-0.00028
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00003	0.00003	0.00004
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00005	0.00006	0.00006
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00034	-0.00034	-0.00033
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00002	0.00003	0.00004
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00006	0.00006	0.00007
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00031	-0.00030	-0.00028
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B1 * C0 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B1 * C0 * !Y)	0.00005	0.00005	0.00006
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00034	-0.00034	-0.00033
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00003	0.00004	0.00005
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00004	0.00005	0.00005
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00031	-0.00030	-0.00028
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00003	0.00003	0.00004
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	-0.00034	-0.00034	-0.00033
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	0.00003	0.00004	0.00005
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	0.00004	0.00005	0.00005

Passive power(pJ) for C1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

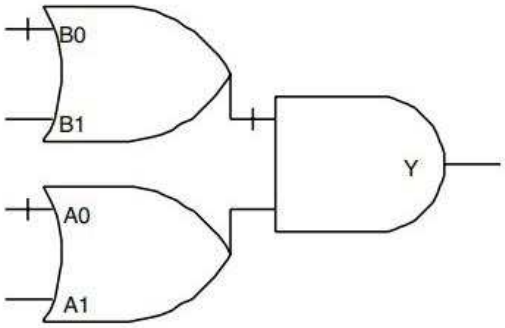
OA222X4H7H	**(A1 * B1 * C0 * Y)**	-0.00000	0.00000	0.00000
	(A1 * B1 * C0 * Y)	0.00004	0.00005	0.00006
	(A1 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * C0 * Y)	-0.00041	-0.00041	-0.00041
	(A1 * B0 * !B1 * C0 * Y)	-0.00000	0.00000	0.00001
	(A1 * B0 * !B1 * C0 * Y)	0.00004	0.00005	0.00005
	(A1 * B0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !B1 * C0 * Y)	-0.00041	-0.00041	-0.00040
	(A1 * !B0 * !B1 * C0 * !Y)	0.00031	0.00031	0.00031
	(A1 * !B0 * !B1 * C0 * !Y)	0.00003	0.00003	0.00003
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00003	-0.00003	-0.00002
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00006	-0.00006	-0.00006
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00034	0.00034	0.00034
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00004	-0.00003	-0.00002
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00007	-0.00006	-0.00005
	(A0 * !A1 * B1 * C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C0 * Y)	0.00004	0.00005	0.00005
	(A0 * !A1 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B1 * C0 * Y)	-0.00041	-0.00041	-0.00041
	(A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00001	-0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C0 * Y)	0.00004	0.00005	0.00006
	(A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00041	-0.00041	-0.00040
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00031	0.00031	0.00031
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00002	0.00003	0.00003
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00006	-0.00006	-0.00005
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00034	0.00034	0.00034
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !A1 * B1 * C0 * !Y)	0.00031	0.00031	0.00031
	(!A0 * !A1 * B1 * C0 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00034	0.00034	0.00034
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00031	0.00031	0.00031
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	0.00034	0.00034	0.00034
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	-0.00005	-0.00005	-0.00004

OA22X0P5H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OA22 cell provides the logical AND of two OR groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	Y
0	0	x	x	0
x	1	0	0	0
x	1	x	1	1
x	1	1	x	1
1	x	0	0	0
1	x	x	1	1
1	x	1	x	1

Footprint

Cell Name	Area
OA22X0P5H7H	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	**A1**	**B0**	**B1**	**Y**
OA22X0P5H7H	0.00078	0.00086	0.00088	0.00092	0.03004

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
OA22X0P5H7H	0.00000	0.01614	0.01907

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA22X0P5H7H	A0->Y (RR)	0.09261	0.27004	0.70609
	A1->Y (RR)	0.08953	0.26522	0.69679
	B0->Y (RR)	0.08429	0.25540	0.67378
	B1->Y (RR)	0.08053	0.24970	0.66228

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA22X0P5H7H	A0->Y (FF)	0.12294	0.27263	0.63274
	A1->Y (FF)	0.11993	0.26708	0.62347
	B0->Y (FF)	0.10507	0.24890	0.59420
	B1->Y (FF)	0.10108	0.24272	0.58420

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA22X0P5H7H	A0	0.00045	0.00050	0.00054
	A0	0.00012	0.00012	0.00012
	A0	-0.00009	-0.00009	-0.00008
	A0	0.00193	0.00198	0.00203
	A1	0.00044	0.00050	0.00055
	A1	0.00008	0.00008	0.00008
	A1	-0.00009	-0.00009	-0.00009
	A1	0.00177	0.00183	0.00188
	B0	0.00041	0.00048	0.00054
	B0	0.00012	0.00012	0.00012
	B0	-0.00002	-0.00002	-0.00002
	B0	0.00153	0.00159	0.00166
	B1	0.00042	0.00048	0.00055
	B1	0.00007	0.00007	0.00008
	B1	-0.00003	-0.00002	-0.00002
	B1	0.00139	0.00145	0.00152

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA22X0P5H7H	A0	0.00192	0.00198	0.00203
	A0	-0.00008	-0.00008	-0.00008
	A0	0.00010	0.00010	0.00010
	A0	0.00047	0.00053	0.00058
	A1	0.00179	0.00184	0.00191
	A1	-0.00003	-0.00003	-0.00003
	A1	0.00010	0.00010	0.00010
	A1	0.00051	0.00057	0.00063
	B0	0.00158	0.00164	0.00171
	B0	-0.00008	-0.00007	-0.00007
	B0	0.00002	0.00003	0.00003
	B0	0.00042	0.00048	0.00055
	B1	0.00144	0.00150	0.00157
	B1	-0.00003	-0.00003	-0.00002
	B1	0.00002	0.00003	0.00003
	B1	0.00045	0.00051	0.00058

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X0P5H7H	(A1 * B1 * Y)	-0.00009	-0.00008	-0.00007
	(A1 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * Y)	0.00030	0.00030	0.00031
	(A1 * B0 * !B1 * Y)	-0.00009	-0.00008	-0.00007
	(A1 * B0 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * Y)	0.00030	0.00030	0.00031
	(A1 * !B0 * !B1 * !Y)	-0.00009	-0.00008	-0.00007
	(A1 * !B0 * !B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00001
	(A1 * !B0 * !B1 * !Y)	0.00030	0.00030	0.00030
	(!A1 * !B0 * !B1 * !Y)	-0.00011	-0.00011	-0.00011
	(!A1 * !B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !B1 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !B1 * !Y)	0.00025	0.00025	0.00026

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X0P5H7H	(A1 * B1 * Y)	0.00009	0.00009	0.00009
	(A1 * B1 * Y)	0.00002	0.00002	0.00002
	(A1 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * Y)	-0.00030	-0.00030	-0.00029
	(A1 * B0 * !B1 * Y)	0.00009	0.00009	0.00009
	(A1 * B0 * !B1 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !B1 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !B1 * Y)	-0.00030	-0.00030	-0.00030
	(A1 * !B0 * !B1 * !Y)	0.00009	0.00009	0.00009
	(A1 * !B0 * !B1 * !Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * !Y)	-0.00030	-0.00030	-0.00030
	(!A1 * !B0 * !B1 * !Y)	0.00011	0.00011	0.00012
	(!A1 * !B0 * !B1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !B1 * !Y)	-0.00002	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * !Y)	-0.00026	-0.00024	-0.00022

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X0P5H7H	(A0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * B1 * Y)	0.00030	0.00031	0.00031
	(A0 * B0 * !B1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * Y)	0.00031	0.00031	0.00031
	(A0 * !B0 * !B1 * !Y)	-0.00011	-0.00011	-0.00010
	(A0 * !B0 * !B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !B1 * !Y)	0.00024	0.00024	0.00025
	(!A0 * !B0 * !B1 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * !B1 * !Y)	0.00020	0.00020	0.00020

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X0P5H7H	(A0 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * B1 * Y)	0.00003	0.00003	0.00003
	(A0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * Y)	-0.00031	-0.00031	-0.00030
	(A0 * B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * Y)	0.00003	0.00003	0.00003
	(A0 * B0 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !B1 * Y)	-0.00031	-0.00031	-0.00031
	(A0 * !B0 * !B1 * !Y)	0.00011	0.00011	0.00011
	(A0 * !B0 * !B1 * !Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * !B1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !B0 * !B1 * !Y)	-0.00025	-0.00024	-0.00024
	(!A0 * !B0 * !B1 * !Y)	0.00014	0.00014	0.00014
	(!A0 * !B0 * !B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * !B1 * !Y)	-0.00020	-0.00019	-0.00017

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X0P5H7H	(A1 * B1 * Y)	-0.00009	-0.00008	-0.00007
	(A1 * B1 * Y)	-0.00002	-0.00002	-0.00001
	(A1 * B1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * Y)	0.00033	0.00033	0.00033
	(A0 * !A1 * B1 * Y)	-0.00009	-0.00008	-0.00006
	(A0 * !A1 * B1 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * !A1 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * Y)	0.00033	0.00033	0.00033
	(!A0 * !A1 * B1 * !Y)	-0.00023	-0.00022	-0.00021
	(!A0 * !A1 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !A1 * B1 * !Y)	0.00008	0.00009	0.00009
	(!A0 * !A1 * !B1 * !Y)	-0.00025	-0.00024	-0.00024
	(!A0 * !A1 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B1 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !A1 * !B1 * !Y)	0.00008	0.00009	0.00009

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X0P5H7H	(A1 * B1 * Y)	0.00009	0.00009	0.00009
	(A1 * B1 * Y)	0.00001	0.00002	0.00002
	(A1 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * Y)	-0.00033	-0.00033	-0.00032
	(A0 * !A1 * B1 * Y)	0.00009	0.00009	0.00009
	(A0 * !A1 * B1 * Y)	0.00001	0.00002	0.00002
	(A0 * !A1 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * Y)	-0.00033	-0.00032	-0.00032
	(!A0 * !A1 * B1 * !Y)	0.00023	0.00023	0.00023
	(!A0 * !A1 * B1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * !Y)	-0.00009	-0.00009	-0.00008
	(!A0 * !A1 * !B1 * !Y)	0.00025	0.00025	0.00025
	(!A0 * !A1 * !B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * !B1 * !Y)	-0.00009	-0.00009	-0.00008

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X0P5H7H	(A1 * B0 * Y)	-0.00000	0.00000	0.00001
	(A1 * B0 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00033	0.00033	0.00034
	(A0 * !A1 * B0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * B0 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * !A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * Y)	0.00033	0.00033	0.00034
	(!A0 * !A1 * B0 * !Y)	-0.00024	-0.00023	-0.00022
	(!A0 * !A1 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * B0 * !Y)	0.00005	0.00005	0.00006
	(!A0 * !A1 * !B0 * !Y)	-0.00026	-0.00025	-0.00025
	(!A0 * !A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !B0 * !Y)	0.00005	0.00005	0.00006

Passive power(pJ) for B1 falling (conditional):

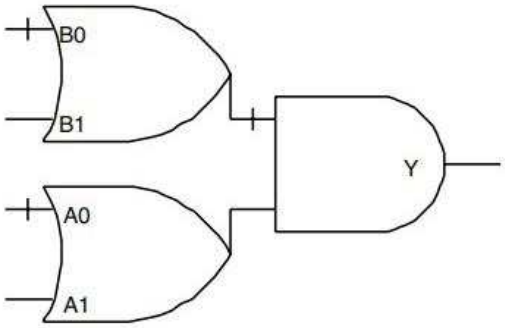
Cell Name	When	Power(pJ)		
		min	avg	max
OA22X0P5H7H	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00003	0.00003	0.00003
	(A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * Y)	-0.00034	-0.00033	-0.00033
	(A0 * !A1 * B0 * Y)	0.00000	0.00000	0.00001
	(A0 * !A1 * B0 * Y)	0.00002	0.00003	0.00003
	(A0 * !A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * Y)	-0.00033	-0.00033	-0.00033
	(!A0 * !A1 * B0 * !Y)	0.00023	0.00024	0.00024
	(!A0 * !A1 * B0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B0 * !Y)	-0.00006	-0.00005	-0.00005
	(!A0 * !A1 * !B0 * !Y)	0.00025	0.00026	0.00026
	(!A0 * !A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !B0 * !Y)	-0.00005	-0.00005	-0.00005

OA22X0P7H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OA22 cell provides the logical AND of two OR groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	Y
0	0	x	x	0
x	1	0	0	0
x	1	x	1	1
x	1	1	x	1
1	x	0	0	0
1	x	x	1	1
1	x	1	x	1

Footprint

Cell Name	Area
OA22X0P7H7H	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	**A1**	**B0**	**B1**	**Y**
OA22X0P7H7H	0.00078	0.00086	0.00089	0.00092	0.03438

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
OA22X0P7H7H	0.00000	0.01716	0.02112

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA22X0P7H7H	A0->Y (RR)	0.09136	0.27020	0.70954
	A1->Y (RR)	0.08825	0.26538	0.70005
	B0->Y (RR)	0.08302	0.25572	0.67753
	B1->Y (RR)	0.07914	0.24987	0.66672

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA22X0P7H7H	A0->Y (FF)	0.12255	0.27457	0.63911
	A1->Y (FF)	0.11963	0.26908	0.63008
	B0->Y (FF)	0.10479	0.25095	0.60053
	B1->Y (FF)	0.10058	0.24458	0.59076

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA22X0P7H7H	A0	0.00048	0.00053	0.00058
	A0	0.00012	0.00012	0.00012
	A0	-0.00009	-0.00009	-0.00009
	A0	0.00195	0.00201	0.00205
	A1	0.00047	0.00053	0.00058
	A1	0.00007	0.00007	0.00007
	A1	-0.00009	-0.00009	-0.00009
	A1	0.00179	0.00186	0.00191
	B0	0.00044	0.00051	0.00057
	B0	0.00012	0.00012	0.00012
	B0	-0.00002	-0.00002	-0.00002
	B0	0.00156	0.00162	0.00169
	B1	0.00045	0.00052	0.00058
	B1	0.00007	0.00007	0.00007
	B1	-0.00002	-0.00002	-0.00002
	B1	0.00141	0.00147	0.00154

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA22X0P7H7H	A0	0.00194	0.00200	0.00205
	A0	-0.00007	-0.00007	-0.00007
	A0	0.00009	0.00010	0.00010
	A0	0.00050	0.00055	0.00061
	A1	0.00181	0.00186	0.00193
	A1	-0.00003	-0.00003	-0.00002
	A1	0.00009	0.00010	0.00010
	A1	0.00054	0.00059	0.00066
	B0	0.00160	0.00166	0.00173
	B0	-0.00007	-0.00007	-0.00007
	B0	0.00002	0.00002	0.00003
	B0	0.00044	0.00050	0.00057
	B1	0.00146	0.00152	0.00158
	B1	-0.00003	-0.00003	-0.00002
	B1	0.00002	0.00002	0.00003
	B1	0.00047	0.00054	0.00060

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X0P7H7H	(A1 * B1 * Y)	-0.00009	-0.00008	-0.00007
	(A1 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * Y)	0.00030	0.00030	0.00031
	(A1 * B0 * !B1 * Y)	-0.00009	-0.00008	-0.00007
	(A1 * B0 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * Y)	0.00030	0.00030	0.00031
	(A1 * !B0 * !B1 * !Y)	-0.00009	-0.00008	-0.00007
	(A1 * !B0 * !B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * !Y)	0.00030	0.00030	0.00030
	(!A1 * !B0 * !B1 * !Y)	-0.00011	-0.00011	-0.00011
	(!A1 * !B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !B1 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * !B1 * !Y)	0.00025	0.00026	0.00026

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X0P7H7H	(A1 * B1 * Y)	0.00009	0.00009	0.00009
	(A1 * B1 * Y)	0.00002	0.00002	0.00002
	(A1 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * Y)	-0.00030	-0.00030	-0.00029
	(A1 * B0 * !B1 * Y)	0.00009	0.00009	0.00009
	(A1 * B0 * !B1 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * Y)	-0.00030	-0.00030	-0.00029
	(A1 * !B0 * !B1 * !Y)	0.00009	0.00009	0.00009
	(A1 * !B0 * !B1 * !Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * !Y)	-0.00030	-0.00030	-0.00030
	(!A1 * !B0 * !B1 * !Y)	0.00011	0.00011	0.00012
	(!A1 * !B0 * !B1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !B1 * !Y)	-0.00002	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * !Y)	-0.00026	-0.00024	-0.00022

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X0P7H7H	(A0 * B1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * B1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * B1 * Y)	0.00030	0.00031	0.00031
	(A0 * B0 * !B1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * Y)	0.00031	0.00031	0.00031
	(A0 * !B0 * !B1 * !Y)	-0.00011	-0.00011	-0.00010
	(A0 * !B0 * !B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !B1 * !Y)	0.00024	0.00024	0.00025
	(!A0 * !B0 * !B1 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * !Y)	0.00020	0.00020	0.00020

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X0P7H7H	(A0 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * B1 * Y)	0.00003	0.00003	0.00003
	(A0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * Y)	-0.00031	-0.00031	-0.00030
	(A0 * B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * Y)	0.00003	0.00003	0.00003
	(A0 * B0 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !B1 * Y)	-0.00031	-0.00031	-0.00031
	(A0 * !B0 * !B1 * !Y)	0.00011	0.00011	0.00011
	(A0 * !B0 * !B1 * !Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !B1 * !Y)	-0.00025	-0.00024	-0.00024
	(!A0 * !B0 * !B1 * !Y)	0.00014	0.00014	0.00014
	(!A0 * !B0 * !B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * !Y)	-0.00020	-0.00019	-0.00017

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X0P7H7H	(A1 * B1 * Y)	-0.00009	-0.00008	-0.00006
	(A1 * B1 * Y)	-0.00002	-0.00002	-0.00001
	(A1 * B1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * Y)	0.00033	0.00033	0.00033
	(A0 * !A1 * B1 * Y)	-0.00009	-0.00008	-0.00007
	(A0 * !A1 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * Y)	0.00033	0.00033	0.00033
	(!A0 * !A1 * B1 * !Y)	-0.00023	-0.00022	-0.00021
	(!A0 * !A1 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !A1 * B1 * !Y)	0.00008	0.00009	0.00009
	(!A0 * !A1 * !B1 * !Y)	-0.00025	-0.00025	-0.00024
	(!A0 * !A1 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B1 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !A1 * !B1 * !Y)	0.00008	0.00009	0.00009

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X0P7H7H	(A1 * B1 * Y)	0.00009	0.00009	0.00009
	(A1 * B1 * Y)	0.00001	0.00002	0.00002
	(A1 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * Y)	-0.00033	-0.00033	-0.00033
	(A0 * !A1 * B1 * Y)	0.00009	0.00009	0.00009
	(A0 * !A1 * B1 * Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * Y)	-0.00033	-0.00033	-0.00033
	(!A0 * !A1 * B1 * !Y)	0.00023	0.00023	0.00023
	(!A0 * !A1 * B1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * !Y)	-0.00009	-0.00009	-0.00008
	(!A0 * !A1 * !B1 * !Y)	0.00025	0.00025	0.00025
	(!A0 * !A1 * !B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * !B1 * !Y)	-0.00009	-0.00009	-0.00008

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X0P7H7H	(A1 * B0 * Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00033	0.00033	0.00033
	(A0 * !A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * !A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * Y)	0.00033	0.00033	0.00033
	(!A0 * !A1 * B0 * !Y)	-0.00023	-0.00022	-0.00021
	(!A0 * !A1 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * B0 * !Y)	0.00005	0.00006	0.00006
	(!A0 * !A1 * !B0 * !Y)	-0.00025	-0.00025	-0.00025
	(!A0 * !A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !B0 * !Y)	0.00005	0.00006	0.00006

Passive power(pJ) for B1 falling (conditional):

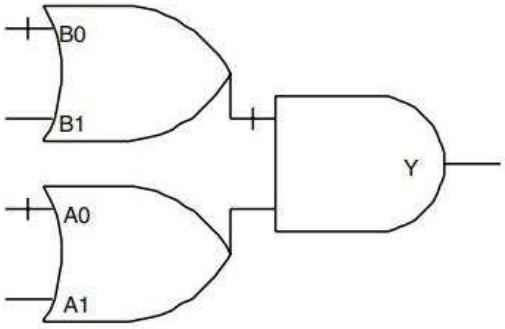
Cell Name	When	Power(pJ)		
		min	avg	max
OA22X0P7H7H	(A1 * B0 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * Y)	0.00003	0.00003	0.00004
	(A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * Y)	-0.00033	-0.00033	-0.00033
	(A0 * !A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * Y)	0.00002	0.00003	0.00003
	(A0 * !A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * Y)	-0.00033	-0.00033	-0.00033
	(!A0 * !A1 * B0 * !Y)	0.00023	0.00023	0.00023
	(!A0 * !A1 * B0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B0 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !B0 * !Y)	0.00025	0.00025	0.00026
	(!A0 * !A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !B0 * !Y)	-0.00005	-0.00005	-0.00005

OA22X1H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OA22 cell provides the logical AND of two OR groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	Y
0	0	x	x	0
x	1	0	0	0
x	1	x	1	1
x	1	1	x	1
1	x	0	0	0
1	x	x	1	1
1	x	1	x	1

Footprint

Cell Name	Area
OA22X1H7H	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	**A1**	**B0**	**B1**	**Y**
OA22X1H7H	0.00078	0.00086	0.00090	0.00092	0.04116

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
OA22X1H7H	0.00000	0.01951	0.02552

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA22X1H7H	A0->Y (RR)	0.09029	0.27059	0.71297
	A1->Y (RR)	0.08717	0.26579	0.70339
	B0->Y (RR)	0.08208	0.25645	0.68199
	B1->Y (RR)	0.07808	0.25063	0.67017

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA22X1H7H	A0->Y (FF)	0.12312	0.28006	0.65503
	A1->Y (FF)	0.12022	0.27464	0.64628
	B0->Y (FF)	0.10548	0.25664	0.61699
	B1->Y (FF)	0.10127	0.25036	0.60781

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA22X1H7H	A0	0.00052	0.00058	0.00062
	A0	0.00011	0.00011	0.00011
	A0	-0.00009	-0.00009	-0.00008
	A0	0.00199	0.00204	0.00209
	A1	0.00051	0.00058	0.00063
	A1	0.00007	0.00007	0.00007
	A1	-0.00009	-0.00009	-0.00008
	A1	0.00183	0.00189	0.00195
	B0	0.00048	0.00055	0.00062
	B0	0.00011	0.00011	0.00011
	B0	-0.00002	-0.00002	0.00000
	B0	0.00160	0.00166	0.00173
	B1	0.00049	0.00056	0.00063
	B1	0.00006	0.00006	0.00007
	B1	-0.00002	-0.00002	-0.00000
	B1	0.00144	0.00151	0.00158

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA22X1H7H	A0	0.00197	0.00203	0.00210
	A0	-0.00007	-0.00007	-0.00007
	A0	0.00009	0.00009	0.00009
	A0	0.00054	0.00060	0.00066
	A1	0.00184	0.00190	0.00197
	A1	-0.00002	-0.00002	-0.00002
	A1	0.00009	0.00009	0.00009
	A1	0.00058	0.00064	0.00070
	B0	0.00163	0.00170	0.00177
	B0	-0.00007	-0.00006	-0.00006
	B0	0.00001	0.00002	0.00003
	B0	0.00047	0.00055	0.00062
	B1	0.00149	0.00156	0.00163
	B1	-0.00002	-0.00002	-0.00001
	B1	0.00001	0.00002	0.00003
	B1	0.00052	0.00058	0.00065

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X1H7H	(A1 * B1 * Y)	-0.00009	-0.00008	-0.00007
	(A1 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * Y)	0.00030	0.00030	0.00031
	(A1 * B0 * !B1 * Y)	-0.00009	-0.00008	-0.00007
	(A1 * B0 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * Y)	0.00030	0.00030	0.00031
	(A1 * !B0 * !B1 * !Y)	-0.00009	-0.00008	-0.00007
	(A1 * !B0 * !B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * !Y)	0.00030	0.00030	0.00030
	(!A1 * !B0 * !B1 * !Y)	-0.00011	-0.00011	-0.00011
	(!A1 * !B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !B1 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !B1 * !Y)	0.00025	0.00025	0.00026

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X1H7H	(A1 * B1 * Y)	0.00009	0.00009	0.00009
	(A1 * B1 * Y)	0.00002	0.00002	0.00002
	(A1 * B1 * Y)	-0.00000	-0.00000	0.00001
	(A1 * B1 * Y)	-0.00030	-0.00030	-0.00030
	(A1 * B0 * !B1 * Y)	0.00009	0.00009	0.00009
	(A1 * B0 * !B1 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !B1 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !B1 * Y)	-0.00030	-0.00030	-0.00030
	(A1 * !B0 * !B1 * !Y)	0.00009	0.00009	0.00009
	(A1 * !B0 * !B1 * !Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * !Y)	-0.00030	-0.00030	-0.00030
	(!A1 * !B0 * !B1 * !Y)	0.00011	0.00011	0.00012
	(!A1 * !B0 * !B1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !B1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !B1 * !Y)	-0.00026	-0.00024	-0.00022

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X1H7H	(A0 * B1 * Y)	-0.00000	0.00000	0.00000
	(A0 * B1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * B1 * Y)	0.00030	0.00031	0.00031
	(A0 * B0 * !B1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * Y)	0.00030	0.00031	0.00031
	(A0 * !B0 * !B1 * !Y)	-0.00011	-0.00011	-0.00010
	(A0 * !B0 * !B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !B1 * !Y)	0.00024	0.00024	0.00025
	(!A0 * !B0 * !B1 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !B0 * !B1 * !Y)	0.00020	0.00020	0.00020

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X1H7H	(A0 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * B1 * Y)	0.00003	0.00003	0.00003
	(A0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * Y)	-0.00031	-0.00031	-0.00030
	(A0 * B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * Y)	0.00003	0.00003	0.00003
	(A0 * B0 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !B1 * Y)	-0.00031	-0.00031	-0.00030
	(A0 * !B0 * !B1 * !Y)	0.00011	0.00012	0.00011
	(A0 * !B0 * !B1 * !Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * !B1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !B0 * !B1 * !Y)	-0.00025	-0.00024	-0.00024
	(!A0 * !B0 * !B1 * !Y)	0.00014	0.00014	0.00014
	(!A0 * !B0 * !B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * !Y)	-0.00020	-0.00019	-0.00017

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X1H7H	(A1 * B1 * Y)	-0.00009	-0.00008	-0.00007
	(A1 * B1 * Y)	-0.00002	-0.00002	-0.00001
	(A1 * B1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * Y)	0.00033	0.00033	0.00033
	(A0 * !A1 * B1 * Y)	-0.00009	-0.00008	-0.00007
	(A0 * !A1 * B1 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * !A1 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * Y)	0.00033	0.00033	0.00033
	(!A0 * !A1 * B1 * !Y)	-0.00023	-0.00023	-0.00022
	(!A0 * !A1 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * !Y)	0.00009	0.00009	0.00010
	(!A0 * !A1 * !B1 * !Y)	-0.00025	-0.00025	-0.00025
	(!A0 * !A1 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B1 * !Y)	0.00001	0.00002	0.00003
	(!A0 * !A1 * !B1 * !Y)	0.00009	0.00009	0.00010

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X1H7H	(A1 * B1 * Y)	0.00009	0.00009	0.00010
	(A1 * B1 * Y)	0.00001	0.00002	0.00002
	(A1 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * Y)	-0.00033	-0.00033	-0.00033
	(A0 * !A1 * B1 * Y)	0.00009	0.00009	0.00009
	(A0 * !A1 * B1 * Y)	0.00001	0.00002	0.00002
	(A0 * !A1 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * Y)	-0.00033	-0.00033	-0.00033
	(!A0 * !A1 * B1 * !Y)	0.00023	0.00023	0.00023
	(!A0 * !A1 * B1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B1 * !Y)	-0.00010	-0.00009	-0.00009
	(!A0 * !A1 * !B1 * !Y)	0.00025	0.00025	0.00025
	(!A0 * !A1 * !B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * !B1 * !Y)	-0.00009	-0.00009	-0.00008

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X1H7H	(A1 * B0 * Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * Y)	0.00033	0.00033	0.00033
	(A0 * !A1 * B0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * B0 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * !A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * Y)	0.00033	0.00033	0.00033
	(!A0 * !A1 * B0 * !Y)	-0.00024	-0.00023	-0.00021
	(!A0 * !A1 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !A1 * B0 * !Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !B0 * !Y)	-0.00026	-0.00025	-0.00025
	(!A0 * !A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !B0 * !Y)	0.00005	0.00005	0.00006

Passive power(pJ) for B1 falling (conditional):

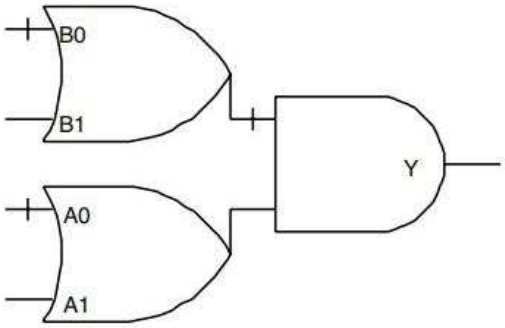
Cell Name	When	Power(pJ)		
		min	avg	max
OA22X1H7H	(A1 * B0 * Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00003	0.00003	0.00003
	(A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * Y)	-0.00033	-0.00033	-0.00033
	(A0 * !A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * Y)	0.00003	0.00003	0.00003
	(A0 * !A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * Y)	-0.00033	-0.00033	-0.00033
	(!A0 * !A1 * B0 * !Y)	0.00023	0.00023	0.00024
	(!A0 * !A1 * B0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !B0 * !Y)	0.00025	0.00026	0.00026
	(!A0 * !A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !B0 * !Y)	-0.00005	-0.00005	-0.00005

OA22X1P4H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OA22 cell provides the logical AND of two OR groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	Y
0	0	x	x	0
x	1	0	0	0
x	1	x	1	1
x	1	1	x	1
1	x	0	0	0
1	x	x	1	1
1	x	1	x	1

Footprint

Cell Name	Area
OA22X1P4H7H	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	**A1**	**B0**	**B1**	**Y**
OA22X1P4H7H	0.00078	0.00086	0.00091	0.00092	0.04695

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
OA22X1P4H7H	0.00000	0.02263	0.03094

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA22X1P4H7H	A0->Y (RR)	0.09024	0.27168	0.71608
	A1->Y (RR)	0.08712	0.26695	0.70714
	B0->Y (RR)	0.08216	0.25784	0.68549
	B1->Y (RR)	0.07794	0.25195	0.67498

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA22X1P4H7H	A0->Y (FF)	0.12395	0.28342	0.66286
	A1->Y (FF)	0.12104	0.27809	0.65483
	B0->Y (FF)	0.10646	0.26022	0.62553
	B1->Y (FF)	0.10201	0.25384	0.61657

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA22X1P4H7H	A0	0.00056	0.00062	0.00067
	A0	0.00011	0.00011	0.00011
	A0	-0.00008	-0.00008	-0.00008
	A0	0.00202	0.00208	0.00213
	A1	0.00055	0.00062	0.00068
	A1	0.00006	0.00006	0.00006
	A1	-0.00008	-0.00008	-0.00007
	A1	0.00186	0.00193	0.00199
	B0	0.00052	0.00060	0.00067
	B0	0.00010	0.00011	0.00011
	B0	-0.00001	-0.00001	-0.00000
	B0	0.00163	0.00170	0.00177
	B1	0.00053	0.00060	0.00068
	B1	0.00006	0.00006	0.00006
	B1	-0.00001	-0.00001	0.00000
	B1	0.00147	0.00155	0.00162

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA22X1P4H7H	A0	0.00201	0.00207	0.00214
	A0	-0.00006	-0.00006	-0.00004
	A0	0.00008	0.00009	0.00009
	A0	0.00058	0.00064	0.00071
	A1	0.00188	0.00194	0.00201
	A1	-0.00002	-0.00002	-0.00001
	A1	0.00008	0.00009	0.00009
	A1	0.00062	0.00068	0.00076
	B0	0.00167	0.00174	0.00182
	B0	-0.00006	-0.00006	-0.00006
	B0	0.00000	0.00001	0.00002
	B0	0.00052	0.00059	0.00067
	B1	0.00153	0.00160	0.00167
	B1	-0.00002	-0.00001	-0.00001
	B1	0.00001	0.00001	0.00001
	B1	0.00056	0.00063	0.00070

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X1P4H7H	(A1 * B1 * Y)	-0.00009	-0.00008	-0.00007
	(A1 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * Y)	0.00030	0.00030	0.00031
	(A1 * B0 * !B1 * Y)	-0.00009	-0.00008	-0.00007
	(A1 * B0 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !B1 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !B1 * Y)	0.00030	0.00030	0.00030
	(A1 * !B0 * !B1 * !Y)	-0.00009	-0.00008	-0.00007
	(A1 * !B0 * !B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * !Y)	0.00030	0.00030	0.00030
	(!A1 * !B0 * !B1 * !Y)	-0.00011	-0.00011	-0.00011
	(!A1 * !B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !B1 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !B1 * !Y)	0.00025	0.00025	0.00026

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X1P4H7H	(A1 * B1 * Y)	0.00009	0.00009	0.00009
	(A1 * B1 * Y)	0.00002	0.00002	0.00002
	(A1 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * Y)	-0.00030	-0.00030	-0.00029
	(A1 * B0 * !B1 * Y)	0.00009	0.00009	0.00009
	(A1 * B0 * !B1 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !B1 * Y)	-0.00001	-0.00000	-0.00000
	(A1 * B0 * !B1 * Y)	-0.00030	-0.00030	-0.00029
	(A1 * !B0 * !B1 * !Y)	0.00009	0.00009	0.00009
	(A1 * !B0 * !B1 * !Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * !Y)	-0.00030	-0.00030	-0.00030
	(!A1 * !B0 * !B1 * !Y)	0.00011	0.00011	0.00012
	(!A1 * !B0 * !B1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !B1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !B1 * !Y)	-0.00026	-0.00024	-0.00022

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X1P4H7H	(A0 * B1 * Y)	-0.00000	0.00000	0.00001
	(A0 * B1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * B1 * Y)	0.00030	0.00031	0.00031
	(A0 * B0 * !B1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * !B1 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * Y)	0.00030	0.00031	0.00031
	(A0 * !B0 * !B1 * !Y)	-0.00011	-0.00011	-0.00010
	(A0 * !B0 * !B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !B1 * !Y)	0.00024	0.00024	0.00025
	(!A0 * !B0 * !B1 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * !Y)	0.00020	0.00020	0.00020

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X1P4H7H	(A0 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * B1 * Y)	0.00003	0.00003	0.00003
	(A0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * Y)	-0.00031	-0.00031	-0.00030
	(A0 * B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * Y)	0.00003	0.00003	0.00003
	(A0 * B0 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !B1 * Y)	-0.00031	-0.00031	-0.00030
	(A0 * !B0 * !B1 * !Y)	0.00011	0.00011	0.00011
	(A0 * !B0 * !B1 * !Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * !B1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !B0 * !B1 * !Y)	-0.00025	-0.00024	-0.00024
	(!A0 * !B0 * !B1 * !Y)	0.00014	0.00014	0.00014
	(!A0 * !B0 * !B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * !Y)	-0.00020	-0.00019	-0.00017

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X1P4H7H	(A1 * B1 * Y)	-0.00009	-0.00008	-0.00007
	(A1 * B1 * Y)	-0.00002	-0.00002	-0.00001
	(A1 * B1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * Y)	0.00034	0.00034	0.00034
	(A0 * !A1 * B1 * Y)	-0.00009	-0.00008	-0.00007
	(A0 * !A1 * B1 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * !A1 * B1 * Y)	0.00000	0.00000	0.00001
	(A0 * !A1 * B1 * Y)	0.00034	0.00034	0.00034
	(!A0 * !A1 * B1 * !Y)	-0.00024	-0.00023	-0.00022
	(!A0 * !A1 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * !Y)	0.00001	0.00002	0.00003
	(!A0 * !A1 * B1 * !Y)	0.00009	0.00009	0.00010
	(!A0 * !A1 * !B1 * !Y)	-0.00026	-0.00025	-0.00025
	(!A0 * !A1 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B1 * !Y)	0.00001	0.00002	0.00003
	(!A0 * !A1 * !B1 * !Y)	0.00009	0.00009	0.00010

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X1P4H7H	(A1 * B1 * Y)	0.00009	0.00009	0.00010
	(A1 * B1 * Y)	0.00001	0.00002	0.00002
	(A1 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * Y)	-0.00034	-0.00034	-0.00034
	(A0 * !A1 * B1 * Y)	0.00009	0.00009	0.00009
	(A0 * !A1 * B1 * Y)	0.00001	0.00002	0.00002
	(A0 * !A1 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * Y)	-0.00034	-0.00034	-0.00034
	(!A0 * !A1 * B1 * !Y)	0.00023	0.00024	0.00024
	(!A0 * !A1 * B1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B1 * !Y)	-0.00010	-0.00009	-0.00009
	(!A0 * !A1 * !B1 * !Y)	0.00025	0.00025	0.00026
	(!A0 * !A1 * !B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * !B1 * !Y)	-0.00009	-0.00009	-0.00009

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X1P4H7H	(A1 * B0 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * Y)	-0.00003	-0.00003	-0.00002
	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00033	0.00033	0.00033
	(A0 * !A1 * B0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * B0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * Y)	0.00033	0.00033	0.00033
	(!A0 * !A1 * B0 * !Y)	-0.00023	-0.00022	-0.00021
	(!A0 * !A1 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * !Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !B0 * !Y)	-0.00026	-0.00025	-0.00025
	(!A0 * !A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !A1 * !B0 * !Y)	0.00005	0.00005	0.00006

Passive power(pJ) for B1 falling (conditional):

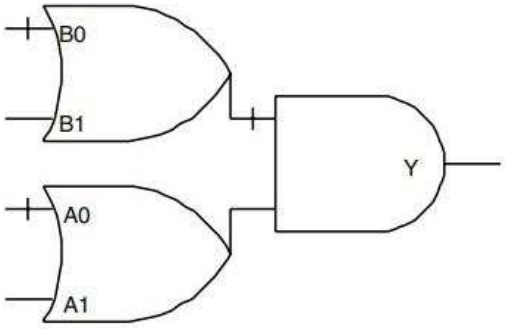
Cell Name	When	Power(pJ)		
		min	avg	max
OA22X1P4H7H	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00003	0.00003	0.00004
	(A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * Y)	-0.00033	-0.00033	-0.00033
	(A0 * !A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * Y)	0.00003	0.00003	0.00003
	(A0 * !A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * Y)	-0.00033	-0.00033	-0.00033
	(!A0 * !A1 * B0 * !Y)	0.00023	0.00023	0.00023
	(!A0 * !A1 * B0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !B0 * !Y)	0.00025	0.00025	0.00026
	(!A0 * !A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * !B0 * !Y)	-0.00005	-0.00005	-0.00005

OA22X2H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OA22 cell provides the logical AND of two OR groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	Y
0	0	x	x	0
x	1	0	0	0
x	1	x	1	1
x	1	1	x	1
1	x	0	0	0
1	x	x	1	1
1	x	1	x	1

Footprint

Cell Name	Area
OA22X2H7H	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	**A1**	**B0**	**B1**	**Y**
OA22X2H7H	0.00078	0.00086	0.00094	0.00090	0.05512

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
OA22X2H7H	0.00000	0.02834	0.04043

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA22X2H7H	A0->Y (RR)	0.09155	0.27552	0.72565
	A1->Y (RR)	0.08848	0.27088	0.71644
	B0->Y (RR)	0.08381	0.26243	0.69704
	B1->Y (RR)	0.07907	0.25605	0.68590

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA22X2H7H	A0->Y (FF)	0.12608	0.28761	0.66991
	A1->Y (FF)	0.12326	0.28244	0.66247
	B0->Y (FF)	0.10918	0.26510	0.63364
	B1->Y (FF)	0.10387	0.25802	0.62431

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA22X2H7H	A0	0.00064	0.00070	0.00076
	A0	0.00010	0.00010	0.00010
	A0	-0.00008	-0.00007	-0.00007
	A0	0.00208	0.00215	0.00221
	A1	0.00062	0.00070	0.00077
	A1	0.00005	0.00005	0.00005
	A1	-0.00007	-0.00007	-0.00007
	A1	0.00192	0.00200	0.00206
	B0	0.00059	0.00067	0.00075
	B0	0.00010	0.00010	0.00010
	B0	-0.00001	-0.00001	0.00000
	B0	0.00171	0.00178	0.00186
	B1	0.00061	0.00068	0.00076
	B1	0.00005	0.00005	0.00005
	B1	-0.00001	-0.00001	0.00000
	B1	0.00154	0.00161	0.00169

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA22X2H7H	A0	0.00207	0.00214	0.00221
	A0	-0.00005	-0.00005	-0.00005
	A0	0.00008	0.00008	0.00008
	A0	0.00066	0.00072	0.00079
	A1	0.00194	0.00201	0.00209
	A1	-0.00001	-0.00001	0.00000
	A1	0.00007	0.00008	0.00008
	A1	0.00070	0.00076	0.00084
	B0	0.00174	0.00182	0.00190
	B0	-0.00005	-0.00005	-0.00005
	B0	0.00000	0.00001	0.00001
	B0	0.00058	0.00066	0.00075
	B1	0.00159	0.00166	0.00174
	B1	-0.00001	-0.00001	-0.00000
	B1	0.00000	0.00001	0.00001
	B1	0.00064	0.00071	0.00079

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X2H7H	(A1 * B1 * Y)	-0.00009	-0.00008	-0.00007
	(A1 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * Y)	0.00030	0.00030	0.00031
	(A1 * B0 * !B1 * Y)	-0.00009	-0.00008	-0.00007
	(A1 * B0 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * Y)	0.00030	0.00030	0.00031
	(A1 * !B0 * !B1 * !Y)	-0.00009	-0.00008	-0.00007
	(A1 * !B0 * !B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * !Y)	0.00030	0.00030	0.00030
	(!A1 * !B0 * !B1 * !Y)	-0.00011	-0.00011	-0.00011
	(!A1 * !B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !B1 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * !B1 * !Y)	0.00025	0.00026	0.00026

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X2H7H	(A1 * B1 * Y)	0.00009	0.00009	0.00009
	(A1 * B1 * Y)	0.00002	0.00002	0.00002
	(A1 * B1 * Y)	-0.00000	-0.00000	0.00001
	(A1 * B1 * Y)	-0.00030	-0.00030	-0.00030
	(A1 * B0 * !B1 * Y)	0.00009	0.00009	0.00009
	(A1 * B0 * !B1 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !B1 * Y)	-0.00000	-0.00000	0.00001
	(A1 * B0 * !B1 * Y)	-0.00031	-0.00030	-0.00030
	(A1 * !B0 * !B1 * !Y)	0.00009	0.00009	0.00009
	(A1 * !B0 * !B1 * !Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * !Y)	-0.00030	-0.00030	-0.00030
	(!A1 * !B0 * !B1 * !Y)	0.00011	0.00011	0.00012
	(!A1 * !B0 * !B1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !B1 * !Y)	-0.00002	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * !Y)	-0.00026	-0.00024	-0.00022

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X2H7H	(A0 * B1 * Y)	-0.00000	0.00000	0.00000
	(A0 * B1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * B1 * Y)	0.00031	0.00031	0.00031
	(A0 * B0 * !B1 * Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * Y)	0.00031	0.00031	0.00031
	(A0 * !B0 * !B1 * !Y)	-0.00012	-0.00011	-0.00010
	(A0 * !B0 * !B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !B1 * !Y)	0.00024	0.00024	0.00025
	(!A0 * !B0 * !B1 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !B0 * !B1 * !Y)	0.00020	0.00020	0.00020

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X2H7H	(A0 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * B1 * Y)	0.00003	0.00003	0.00003
	(A0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * Y)	-0.00031	-0.00031	-0.00030
	(A0 * B0 * !B1 * Y)	0.00000	0.00000	0.00001
	(A0 * B0 * !B1 * Y)	0.00002	0.00003	0.00004
	(A0 * B0 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !B1 * Y)	-0.00031	-0.00031	-0.00031
	(A0 * !B0 * !B1 * !Y)	0.00012	0.00012	0.00012
	(A0 * !B0 * !B1 * !Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * !B1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !B0 * !B1 * !Y)	-0.00025	-0.00024	-0.00024
	(!A0 * !B0 * !B1 * !Y)	0.00014	0.00014	0.00014
	(!A0 * !B0 * !B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * !Y)	-0.00020	-0.00019	-0.00017

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X2H7H	(A1 * B1 * Y)	-0.00009	-0.00008	-0.00006
	(A1 * B1 * Y)	-0.00002	-0.00002	-0.00001
	(A1 * B1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * Y)	0.00035	0.00035	0.00035
	(A0 * !A1 * B1 * Y)	-0.00009	-0.00008	-0.00007
	(A0 * !A1 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * Y)	0.00035	0.00035	0.00036
	(!A0 * !A1 * B1 * !Y)	-0.00025	-0.00024	-0.00023
	(!A0 * !A1 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !A1 * B1 * !Y)	0.00009	0.00010	0.00010
	(!A0 * !A1 * !B1 * !Y)	-0.00027	-0.00026	-0.00026
	(!A0 * !A1 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B1 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !A1 * !B1 * !Y)	0.00009	0.00010	0.00010

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X2H7H	(A1 * B1 * Y)	0.00009	0.00009	0.00009
	(A1 * B1 * Y)	0.00001	0.00002	0.00002
	(A1 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * Y)	-0.00035	-0.00035	-0.00035
	(A0 * !A1 * B1 * Y)	0.00009	0.00009	0.00009
	(A0 * !A1 * B1 * Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * Y)	-0.00035	-0.00035	-0.00035
	(!A0 * !A1 * B1 * !Y)	0.00024	0.00025	0.00025
	(!A0 * !A1 * B1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B1 * !Y)	-0.00010	-0.00010	-0.00009
	(!A0 * !A1 * !B1 * !Y)	0.00026	0.00026	0.00027
	(!A0 * !A1 * !B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !B1 * !Y)	-0.00010	-0.00010	-0.00009

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X2H7H	(A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * Y)	-0.00003	-0.00003	-0.00002
	(A1 * B0 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * Y)	0.00033	0.00033	0.00033
	(A0 * !A1 * B0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * B0 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * !A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * Y)	0.00032	0.00033	0.00033
	(!A0 * !A1 * B0 * !Y)	-0.00023	-0.00022	-0.00021
	(!A0 * !A1 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !A1 * B0 * !Y)	0.00004	0.00005	0.00005
	(!A0 * !A1 * !B0 * !Y)	-0.00025	-0.00025	-0.00024
	(!A0 * !A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * !B0 * !Y)	0.00005	0.00005	0.00006

Passive power(pJ) for B1 falling (conditional):

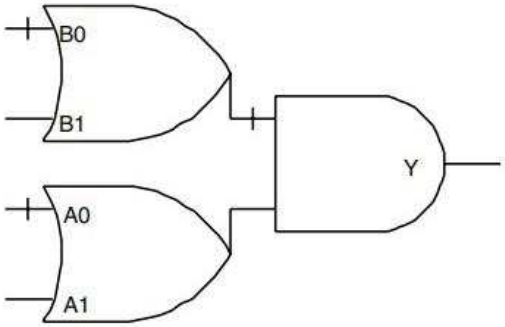
Cell Name	When	Power(pJ)		
		min	avg	max
OA22X2H7H	(A1 * B0 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * Y)	0.00002	0.00003	0.00003
	(A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * Y)	-0.00033	-0.00033	-0.00032
	(A0 * !A1 * B0 * Y)	0.00000	0.00000	0.00001
	(A0 * !A1 * B0 * Y)	0.00002	0.00003	0.00003
	(A0 * !A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * Y)	-0.00033	-0.00033	-0.00032
	(!A0 * !A1 * B0 * !Y)	0.00023	0.00023	0.00023
	(!A0 * !A1 * B0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !A1 * !B0 * !Y)	0.00025	0.00025	0.00025
	(!A0 * !A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * !B0 * !Y)	-0.00005	-0.00005	-0.00005

OA22X3H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OA22 cell provides the logical AND of two OR groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	Y
0	0	x	x	0
x	1	0	0	0
x	1	x	1	1
x	1	1	x	1
1	x	0	0	0
1	x	x	1	1
1	x	1	x	1

Footprint

Cell Name	Area
OA22X3H7H	3.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	**A1**	**B0**	**B1**	**Y**
OA22X3H7H	0.00088	0.00097	0.00100	0.00103	0.08705

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
OA22X3H7H	0.00000	0.03550	0.03791

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA22X3H7H	A0->Y (RR)	0.09133	0.27982	0.73932
	A1->Y (RR)	0.08782	0.27473	0.72984
	B0->Y (RR)	0.08345	0.26616	0.70932
	B1->Y (RR)	0.07927	0.26031	0.69879

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA22X3H7H	A0->Y (FF)	0.11877	0.28340	0.66856
	A1->Y (FF)	0.11549	0.27779	0.66005
	B0->Y (FF)	0.10405	0.26402	0.63762
	B1->Y (FF)	0.09978	0.25774	0.62891

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA22X3H7H	A0	0.00097	0.00106	0.00115
	A0	0.00013	0.00014	0.00014
	A0	-0.00009	-0.00009	-0.00009
	A0	0.00267	0.00277	0.00286
	A1	0.00095	0.00107	0.00117
	A1	0.00007	0.00007	0.00007
	A1	-0.00009	-0.00009	-0.00009
	A1	0.00247	0.00258	0.00268
	B0	0.00093	0.00104	0.00115
	B0	0.00013	0.00013	0.00014
	B0	-0.00000	0.00000	0.00004
	B0	0.00220	0.00231	0.00242
	B1	0.00093	0.00104	0.00117
	B1	0.00007	0.00007	0.00007
	B1	-0.00000	-0.00000	0.00001
	B1	0.00201	0.00212	0.00224

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA22X3H7H	A0	0.00277	0.00287	0.00297
	A0	-0.00007	-0.00007	-0.00007
	A0	0.00010	0.00010	0.00010
	A0	0.00110	0.00120	0.00130
	A1	0.00258	0.00268	0.00279
	A1	-0.00001	-0.00001	-0.00000
	A1	0.00010	0.00010	0.00010
	A1	0.00113	0.00123	0.00134
	B0	0.00237	0.00249	0.00260
	B0	-0.00007	-0.00007	-0.00007
	B0	0.00000	0.00000	0.00001
	B0	0.00104	0.00115	0.00126
	B1	0.00218	0.00229	0.00240
	B1	-0.00001	-0.00001	0.00000
	B1	0.00000	0.00000	0.00001
	B1	0.00106	0.00118	0.00129

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X3H7H	(A1 * B1 * Y)	-0.00012	-0.00011	-0.00009
	(A1 * B1 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * B1 * Y)	0.00000	0.00001	0.00001
	(A1 * B1 * Y)	0.00032	0.00032	0.00033
	(A1 * B0 * !B1 * Y)	-0.00012	-0.00011	-0.00009
	(A1 * B0 * !B1 * Y)	-0.00003	-0.00003	-0.00002
	(A1 * B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !B1 * Y)	0.00032	0.00032	0.00032
	(A1 * !B0 * !B1 * !Y)	-0.00012	-0.00011	-0.00009
	(A1 * !B0 * !B1 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * !B1 * !Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * !B1 * !Y)	0.00032	0.00032	0.00032
	(!A1 * !B0 * !B1 * !Y)	-0.00015	-0.00015	-0.00015
	(!A1 * !B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !B1 * !Y)	0.00027	0.00027	0.00027

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X3H7H	(A1 * B1 * Y)	0.00011	0.00012	0.00012
	(A1 * B1 * Y)	0.00003	0.00003	0.00003
	(A1 * B1 * Y)	-0.00001	-0.00000	0.00000
	(A1 * B1 * Y)	-0.00032	-0.00032	-0.00032
	(A1 * B0 * !B1 * Y)	0.00012	0.00012	0.00012
	(A1 * B0 * !B1 * Y)	0.00002	0.00003	0.00003
	(A1 * B0 * !B1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !B1 * Y)	-0.00032	-0.00032	-0.00031
	(A1 * !B0 * !B1 * !Y)	0.00012	0.00012	0.00012
	(A1 * !B0 * !B1 * !Y)	0.00003	0.00003	0.00003
	(A1 * !B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * !B1 * !Y)	-0.00032	-0.00032	-0.00032
	(!A1 * !B0 * !B1 * !Y)	0.00015	0.00015	0.00015
	(!A1 * !B0 * !B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !B1 * !Y)	-0.00027	-0.00025	-0.00023

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X3H7H	(A0 * B1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * B1 * Y)	-0.00004	-0.00004	-0.00003
	(A0 * B1 * Y)	0.00000	0.00001	0.00001
	(A0 * B1 * Y)	0.00034	0.00034	0.00034
	(A0 * B0 * !B1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * !B1 * Y)	-0.00004	-0.00004	-0.00003
	(A0 * B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !B1 * Y)	0.00034	0.00034	0.00034
	(A0 * !B0 * !B1 * !Y)	-0.00014	-0.00013	-0.00012
	(A0 * !B0 * !B1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * !B0 * !B1 * !Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * !B1 * !Y)	0.00025	0.00026	0.00027
	(!A0 * !B0 * !B1 * !Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * !B1 * !Y)	0.00022	0.00022	0.00022

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X3H7H	(A0 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * B1 * Y)	0.00004	0.00004	0.00005
	(A0 * B1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B1 * Y)	-0.00034	-0.00034	-0.00034
	(A0 * B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * Y)	0.00004	0.00004	0.00005
	(A0 * B0 * !B1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * !B1 * Y)	-0.00034	-0.00034	-0.00034
	(A0 * !B0 * !B1 * !Y)	0.00014	0.00014	0.00015
	(A0 * !B0 * !B1 * !Y)	0.00003	0.00003	0.00003
	(A0 * !B0 * !B1 * !Y)	-0.00001	-0.00000	-0.00000
	(A0 * !B0 * !B1 * !Y)	-0.00027	-0.00026	-0.00025
	(!A0 * !B0 * !B1 * !Y)	0.00018	0.00018	0.00018
	(!A0 * !B0 * !B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * !B1 * !Y)	-0.00022	-0.00020	-0.00018

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X3H7H	(A1 * B1 * Y)	-0.00012	-0.00011	-0.00009
	(A1 * B1 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * B1 * Y)	0.00000	0.00001	0.00001
	(A1 * B1 * Y)	0.00035	0.00035	0.00035
	(A0 * !A1 * B1 * Y)	-0.00012	-0.00011	-0.00009
	(A0 * !A1 * B1 * Y)	-0.00003	-0.00002	-0.00002
	(A0 * !A1 * B1 * Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * B1 * Y)	0.00035	0.00035	0.00035
	(!A0 * !A1 * B1 * !Y)	-0.00027	-0.00026	-0.00025
	(!A0 * !A1 * B1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * B1 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * B1 * !Y)	0.00008	0.00009	0.00009
	(!A0 * !A1 * !B1 * !Y)	-0.00030	-0.00030	-0.00029
	(!A0 * !A1 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B1 * !Y)	0.00002	0.00003	0.00004
	(!A0 * !A1 * !B1 * !Y)	0.00008	0.00009	0.00009

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X3H7H	(A1 * B1 * Y)	0.00011	0.00012	0.00012
	(A1 * B1 * Y)	0.00003	0.00003	0.00004
	(A1 * B1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B1 * Y)	-0.00035	-0.00035	-0.00035
	(A0 * !A1 * B1 * Y)	0.00012	0.00012	0.00013
	(A0 * !A1 * B1 * Y)	0.00002	0.00002	0.00003
	(A0 * !A1 * B1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B1 * Y)	-0.00035	-0.00035	-0.00035
	(!A0 * !A1 * B1 * !Y)	0.00027	0.00027	0.00027
	(!A0 * !A1 * B1 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B1 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * !A1 * B1 * !Y)	-0.00009	-0.00008	-0.00007
	(!A0 * !A1 * !B1 * !Y)	0.00030	0.00030	0.00030
	(!A0 * !A1 * !B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * !B1 * !Y)	-0.00009	-0.00008	-0.00008

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X3H7H	(A1 * B0 * Y)	-0.00000	0.00000	0.00001
	(A1 * B0 * Y)	-0.00004	-0.00004	-0.00004
	(A1 * B0 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * Y)	0.00037	0.00037	0.00037
	(A0 * !A1 * B0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * B0 * Y)	-0.00004	-0.00004	-0.00003
	(A0 * !A1 * B0 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B0 * Y)	0.00037	0.00037	0.00037
	(!A0 * !A1 * B0 * !Y)	-0.00027	-0.00026	-0.00025
	(!A0 * !A1 * B0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * B0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * B0 * !Y)	0.00005	0.00005	0.00006
	(!A0 * !A1 * !B0 * !Y)	-0.00030	-0.00030	-0.00030
	(!A0 * !A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * !Y)	0.00003	0.00003	0.00004
	(!A0 * !A1 * !B0 * !Y)	0.00005	0.00005	0.00005

Passive power(pJ) for B1 falling (conditional):

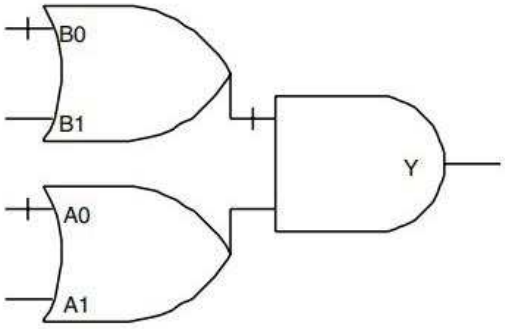
Cell Name	When	Power(pJ)		
		min	avg	max
OA22X3H7H	(A1 * B0 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * Y)	0.00004	0.00004	0.00004
	(A1 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * Y)	-0.00037	-0.00037	-0.00037
	(A0 * !A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * Y)	0.00004	0.00004	0.00005
	(A0 * !A1 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B0 * Y)	-0.00037	-0.00037	-0.00036
	(!A0 * !A1 * B0 * !Y)	0.00027	0.00027	0.00027
	(!A0 * !A1 * B0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * B0 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !B0 * !Y)	0.00030	0.00030	0.00030
	(!A0 * !A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * !Y)	-0.00003	-0.00002	-0.00001
	(!A0 * !A1 * !B0 * !Y)	-0.00005	-0.00005	-0.00005

OA22X4H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OA22 cell provides the logical AND of two OR groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	Y
0	0	x	x	0
x	1	0	0	0
x	1	x	1	1
x	1	1	x	1
1	x	0	0	0
1	x	x	1	1
1	x	1	x	1

Footprint

Cell Name	Area
OA22X4H7H	3.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	**A1**	**B0**	**B1**	**Y**
OA22X4H7H	0.00095	0.00104	0.00110	0.00111	0.10929

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
OA22X4H7H	0.00000	0.05535	0.06333

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA22X4H7H	A0->Y (RR)	0.08821	0.27674	0.73569
	A1->Y (RR)	0.08463	0.27162	0.72616
	B0->Y (RR)	0.08096	0.26366	0.70598
	B1->Y (RR)	0.07664	0.25769	0.69586

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA22X4H7H	A0->Y (FF)	0.11646	0.28281	0.66987
	A1->Y (FF)	0.11307	0.27701	0.66150
	B0->Y (FF)	0.10277	0.26459	0.64086
	B1->Y (FF)	0.09810	0.25794	0.63144

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA22X4H7H	A0	0.00114	0.00125	0.00136
	A0	0.00014	0.00014	0.00014
	A0	-0.00010	-0.00010	-0.00010
	A0	0.00298	0.00310	0.00321
	A1	0.00113	0.00126	0.00137
	A1	0.00007	0.00007	0.00007
	A1	-0.00010	-0.00010	-0.00010
	A1	0.00276	0.00290	0.00301
	B0	0.00110	0.00122	0.00135
	B0	0.00014	0.00014	0.00014
	B0	0.00001	0.00001	0.00001
	B0	0.00248	0.00260	0.00273
	B1	0.00110	0.00124	0.00137
	B1	0.00007	0.00007	0.00007
	B1	0.00001	0.00001	0.00003
	B1	0.00226	0.00239	0.00252

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA22X4H7H	A0	0.00307	0.00319	0.00330
	A0	-0.00007	-0.00007	-0.00007
	A0	0.00011	0.00011	0.00011
	A0	0.00126	0.00137	0.00149
	A1	0.00286	0.00297	0.00310
	A1	0.00000	0.00001	0.00001
	A1	0.00011	0.00011	0.00011
	A1	0.00129	0.00141	0.00153
	B0	0.00265	0.00278	0.00291
	B0	-0.00007	-0.00007	-0.00006
	B0	-0.00001	-0.00001	-0.00000
	B0	0.00120	0.00133	0.00146
	B1	0.00242	0.00255	0.00268
	B1	0.00000	0.00001	0.00001
	B1	-0.00001	-0.00001	-0.00000
	B1	0.00124	0.00136	0.00149

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X4H7H	(A1 * B1 * Y)	-0.00013	-0.00012	-0.00011
	(A1 * B1 * Y)	-0.00004	-0.00003	-0.00003
	(A1 * B1 * Y)	0.00001	0.00001	0.00001
	(A1 * B1 * Y)	0.00034	0.00034	0.00034
	(A1 * B0 * !B1 * Y)	-0.00013	-0.00012	-0.00010
	(A1 * B0 * !B1 * Y)	-0.00004	-0.00003	-0.00003
	(A1 * B0 * !B1 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !B1 * Y)	0.00034	0.00034	0.00034
	(A1 * !B0 * !B1 * !Y)	-0.00013	-0.00012	-0.00010
	(A1 * !B0 * !B1 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * !Y)	0.00033	0.00034	0.00034
	(!A1 * !B0 * !B1 * !Y)	-0.00017	-0.00017	-0.00017
	(!A1 * !B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !B1 * !Y)	0.00028	0.00028	0.00029

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X4H7H	(A1 * B1 * Y)	0.00013	0.00013	0.00014
	(A1 * B1 * Y)	0.00003	0.00003	0.00004
	(A1 * B1 * Y)	-0.00001	-0.00000	0.00001
	(A1 * B1 * Y)	-0.00034	-0.00034	-0.00033
	(A1 * B0 * !B1 * Y)	0.00013	0.00013	0.00014
	(A1 * B0 * !B1 * Y)	0.00003	0.00003	0.00004
	(A1 * B0 * !B1 * Y)	-0.00001	-0.00001	0.00000
	(A1 * B0 * !B1 * Y)	-0.00034	-0.00034	-0.00033
	(A1 * !B0 * !B1 * !Y)	0.00013	0.00013	0.00013
	(A1 * !B0 * !B1 * !Y)	0.00003	0.00003	0.00003
	(A1 * !B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * !Y)	-0.00034	-0.00033	-0.00033
	(!A1 * !B0 * !B1 * !Y)	0.00017	0.00017	0.00017
	(!A1 * !B0 * !B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !B1 * !Y)	-0.00028	-0.00026	-0.00023

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X4H7H	(A0 * B1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * B1 * Y)	-0.00005	-0.00005	-0.00004
	(A0 * B1 * Y)	0.00001	0.00001	0.00001
	(A0 * B1 * Y)	0.00036	0.00036	0.00037
	(A0 * B0 * !B1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * !B1 * Y)	-0.00005	-0.00004	-0.00004
	(A0 * B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !B1 * Y)	0.00036	0.00037	0.00037
	(A0 * !B0 * !B1 * !Y)	-0.00016	-0.00015	-0.00013
	(A0 * !B0 * !B1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * !B0 * !B1 * !Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * !B1 * !Y)	0.00028	0.00028	0.00029
	(!A0 * !B0 * !B1 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !B0 * !B1 * !Y)	0.00023	0.00023	0.00025

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X4H7H	(A0 * B1 * Y)	0.00000	0.00000	0.00001
	(A0 * B1 * Y)	0.00004	0.00005	0.00005
	(A0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * Y)	-0.00037	-0.00036	-0.00036
	(A0 * B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * Y)	0.00005	0.00005	0.00005
	(A0 * B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !B1 * Y)	-0.00037	-0.00036	-0.00036
	(A0 * !B0 * !B1 * !Y)	0.00016	0.00016	0.00016
	(A0 * !B0 * !B1 * !Y)	0.00003	0.00003	0.00003
	(A0 * !B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * !B1 * !Y)	-0.00029	-0.00028	-0.00028
	(!A0 * !B0 * !B1 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !B0 * !B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B0 * !B1 * !Y)	-0.00023	-0.00022	-0.00019

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X4H7H	(A1 * B1 * Y)	-0.00013	-0.00012	-0.00010
	(A1 * B1 * Y)	-0.00003	-0.00003	-0.00002
	(A1 * B1 * Y)	0.00001	0.00001	0.00001
	(A1 * B1 * Y)	0.00038	0.00038	0.00038
	(A0 * !A1 * B1 * Y)	-0.00014	-0.00013	-0.00011
	(A0 * !A1 * B1 * Y)	-0.00003	-0.00003	-0.00001
	(A0 * !A1 * B1 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B1 * Y)	0.00038	0.00038	0.00039
	(!A0 * !A1 * B1 * !Y)	-0.00031	-0.00029	-0.00028
	(!A0 * !A1 * B1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B1 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B1 * !Y)	0.00008	0.00008	0.00009
	(!A0 * !A1 * !B1 * !Y)	-0.00034	-0.00033	-0.00033
	(!A0 * !A1 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B1 * !Y)	0.00003	0.00003	0.00005
	(!A0 * !A1 * !B1 * !Y)	0.00007	0.00008	0.00009

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X4H7H	(A1 * B1 * Y)	0.00013	0.00014	0.00014
	(A1 * B1 * Y)	0.00002	0.00003	0.00003
	(A1 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * Y)	-0.00038	-0.00038	-0.00038
	(A0 * !A1 * B1 * Y)	0.00013	0.00014	0.00015
	(A0 * !A1 * B1 * Y)	0.00001	0.00003	0.00003
	(A0 * !A1 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B1 * Y)	-0.00038	-0.00038	-0.00038
	(!A0 * !A1 * B1 * !Y)	0.00030	0.00030	0.00031
	(!A0 * !A1 * B1 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * B1 * !Y)	-0.00009	-0.00008	-0.00008
	(!A0 * !A1 * !B1 * !Y)	0.00033	0.00034	0.00034
	(!A0 * !A1 * !B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * !B1 * !Y)	-0.00008	-0.00008	-0.00007

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X4H7H	(A1 * B0 * Y)	-0.00001	-0.00000	0.00000
	(A1 * B0 * Y)	-0.00005	-0.00004	-0.00004
	(A1 * B0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * Y)	0.00039	0.00040	0.00040
	(A0 * !A1 * B0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * B0 * Y)	-0.00005	-0.00004	-0.00003
	(A0 * !A1 * B0 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B0 * Y)	0.00039	0.00040	0.00040
	(!A0 * !A1 * B0 * !Y)	-0.00030	-0.00028	-0.00027
	(!A0 * !A1 * B0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B0 * !Y)	0.00003	0.00003	0.00004
	(!A0 * !A1 * B0 * !Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !B0 * !Y)	-0.00033	-0.00033	-0.00032
	(!A0 * !A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * !Y)	0.00003	0.00003	0.00004
	(!A0 * !A1 * !B0 * !Y)	0.00005	0.00005	0.00005

Passive power(pJ) for B1 falling (conditional):

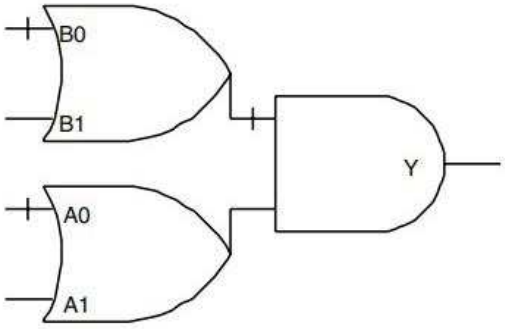
Cell Name	When	Power(pJ)		
		min	avg	max
OA22X4H7H	(A1 * B0 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * Y)	0.00004	0.00005	0.00005
	(A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * Y)	-0.00040	-0.00039	-0.00039
	(A0 * !A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * Y)	0.00005	0.00005	0.00006
	(A0 * !A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B0 * Y)	-0.00040	-0.00039	-0.00039
	(!A0 * !A1 * B0 * !Y)	0.00029	0.00030	0.00030
	(!A0 * !A1 * B0 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * B0 * !Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !A1 * !B0 * !Y)	0.00033	0.00033	0.00033
	(!A0 * !A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !B0 * !Y)	-0.00005	-0.00005	-0.00004

OA22X6H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OA22 cell provides the logical AND of two OR groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	Y
0	0	x	x	0
x	1	0	0	0
x	1	x	1	1
x	1	1	x	1
1	x	0	0	0
1	x	x	1	1
1	x	1	x	1

Footprint

Cell Name	Area
OA22X6H7H	3.92000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	**A1**	**B0**	**B1**	**Y**
OA22X6H7H	0.00106	0.00116	0.00124	0.00121	0.16366

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
OA22X6H7H	0.00000	0.08015	0.08913

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA22X6H7H	A0->Y (RR)	0.09578	0.28802	0.75429
	A1->Y (RR)	0.09186	0.28265	0.74505
	B0->Y (RR)	0.08911	0.27645	0.72945
	B1->Y (RR)	0.08434	0.27022	0.71886

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA22X6H7H	A0->Y (FF)	0.12604	0.29796	0.69483
	A1->Y (FF)	0.12217	0.29196	0.68679
	B0->Y (FF)	0.11317	0.28147	0.66932
	B1->Y (FF)	0.10800	0.27449	0.66068

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA22X6H7H	A0	0.00181	0.00199	0.00216
	A0	0.00014	0.00015	0.00015
	A0	-0.00010	-0.00010	-0.00009
	A0	0.00385	0.00401	0.00418
	A1	0.00181	0.00199	0.00217
	A1	0.00006	0.00006	0.00006
	A1	-0.00010	-0.00010	-0.00009
	A1	0.00359	0.00377	0.00394
	B0	0.00177	0.00195	0.00215
	B0	0.00014	0.00015	0.00015
	B0	0.00003	0.00003	0.00008
	B0	0.00329	0.00347	0.00366
	B1	0.00179	0.00198	0.00217
	B1	0.00005	0.00006	0.00006
	B1	0.00003	0.00003	0.00004
	B1	0.00303	0.00321	0.00341

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA22X6H7H	A0	0.00398	0.00414	0.00431
	A0	-0.00006	-0.00006	-0.00006
	A0	0.00011	0.00011	0.00011
	A0	0.00198	0.00213	0.00231
	A1	0.00371	0.00387	0.00405
	A1	0.00003	0.00003	0.00003
	A1	0.00010	0.00011	0.00011
	A1	0.00200	0.00216	0.00235
	B0	0.00352	0.00371	0.00389
	B0	-0.00006	-0.00006	-0.00006
	B0	-0.00003	-0.00003	0.00000
	B0	0.00191	0.00210	0.00228
	B1	0.00323	0.00341	0.00359
	B1	0.00001	0.00003	0.00004
	B1	-0.00003	-0.00003	-0.00003
	B1	0.00195	0.00213	0.00232

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X6H7H	(A1 * B1 * Y)	-0.00016	-0.00015	-0.00013
	(A1 * B1 * Y)	-0.00004	-0.00004	-0.00003
	(A1 * B1 * Y)	0.00001	0.00001	0.00001
	(A1 * B1 * Y)	0.00036	0.00036	0.00036
	(A1 * B0 * !B1 * Y)	-0.00016	-0.00015	-0.00013
	(A1 * B0 * !B1 * Y)	-0.00004	-0.00003	-0.00003
	(A1 * B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !B1 * Y)	0.00036	0.00036	0.00036
	(A1 * !B0 * !B1 * !Y)	-0.00016	-0.00015	-0.00013
	(A1 * !B0 * !B1 * !Y)	-0.00004	-0.00003	-0.00003
	(A1 * !B0 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * !Y)	0.00035	0.00036	0.00036
	(!A1 * !B0 * !B1 * !Y)	-0.00020	-0.00020	-0.00020
	(!A1 * !B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * !Y)	0.00002	0.00003	0.00003
	(!A1 * !B0 * !B1 * !Y)	0.00029	0.00030	0.00030

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X6H7H	(A1 * B1 * Y)	0.00016	0.00016	0.00016
	(A1 * B1 * Y)	0.00003	0.00004	0.00004
	(A1 * B1 * Y)	-0.00001	-0.00001	0.00000
	(A1 * B1 * Y)	-0.00036	-0.00036	-0.00035
	(A1 * B0 * !B1 * Y)	0.00016	0.00016	0.00017
	(A1 * B0 * !B1 * Y)	0.00003	0.00003	0.00005
	(A1 * B0 * !B1 * Y)	-0.00001	-0.00001	0.00000
	(A1 * B0 * !B1 * Y)	-0.00036	-0.00036	-0.00035
	(A1 * !B0 * !B1 * !Y)	0.00016	0.00016	0.00016
	(A1 * !B0 * !B1 * !Y)	0.00003	0.00003	0.00004
	(A1 * !B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * !Y)	-0.00036	-0.00036	-0.00035
	(!A1 * !B0 * !B1 * !Y)	0.00020	0.00020	0.00021
	(!A1 * !B0 * !B1 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !B1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A1 * !B0 * !B1 * !Y)	-0.00030	-0.00028	-0.00025

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X6H7H	(A0 * B1 * Y)	-0.00000	0.00000	0.00001
	(A0 * B1 * Y)	-0.00006	-0.00006	-0.00006
	(A0 * B1 * Y)	0.00001	0.00001	0.00001
	(A0 * B1 * Y)	0.00039	0.00040	0.00040
	(A0 * B0 * !B1 * Y)	-0.00000	0.00000	0.00001
	(A0 * B0 * !B1 * Y)	-0.00006	-0.00006	-0.00005
	(A0 * B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !B1 * Y)	0.00039	0.00040	0.00040
	(A0 * !B0 * !B1 * !Y)	-0.00019	-0.00018	-0.00016
	(A0 * !B0 * !B1 * !Y)	-0.00004	-0.00004	-0.00003
	(A0 * !B0 * !B1 * !Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * !B1 * !Y)	0.00029	0.00030	0.00031
	(!A0 * !B0 * !B1 * !Y)	-0.00024	-0.00024	-0.00024
	(!A0 * !B0 * !B1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B0 * !B1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !B0 * !B1 * !Y)	0.00024	0.00025	0.00026

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X6H7H	(A0 * B1 * Y)	-0.00001	-0.00000	0.00000
	(A0 * B1 * Y)	0.00006	0.00006	0.00007
	(A0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * Y)	-0.00040	-0.00040	-0.00039
	(A0 * B0 * !B1 * Y)	-0.00001	0.00000	0.00000
	(A0 * B0 * !B1 * Y)	0.00005	0.00006	0.00007
	(A0 * B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !B1 * Y)	-0.00040	-0.00039	-0.00039
	(A0 * !B0 * !B1 * !Y)	0.00019	0.00019	0.00019
	(A0 * !B0 * !B1 * !Y)	0.00004	0.00004	0.00004
	(A0 * !B0 * !B1 * !Y)	-0.00001	-0.00001	0.00000
	(A0 * !B0 * !B1 * !Y)	-0.00030	-0.00030	-0.00029
	(!A0 * !B0 * !B1 * !Y)	0.00024	0.00024	0.00024
	(!A0 * !B0 * !B1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !B0 * !B1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B0 * !B1 * !Y)	-0.00024	-0.00023	-0.00020

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X6H7H	(A1 * B1 * Y)	-0.00016	-0.00015	-0.00014
	(A1 * B1 * Y)	-0.00004	-0.00003	-0.00003
	(A1 * B1 * Y)	0.00001	0.00001	0.00001
	(A1 * B1 * Y)	0.00041	0.00042	0.00042
	(A0 * !A1 * B1 * Y)	-0.00016	-0.00015	-0.00012
	(A0 * !A1 * B1 * Y)	-0.00004	-0.00003	-0.00002
	(A0 * !A1 * B1 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B1 * Y)	0.00041	0.00042	0.00042
	(!A0 * !A1 * B1 * !Y)	-0.00035	-0.00033	-0.00031
	(!A0 * !A1 * B1 * !Y)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * B1 * !Y)	0.00003	0.00004	0.00004
	(!A0 * !A1 * B1 * !Y)	0.00008	0.00008	0.00009
	(!A0 * !A1 * !B1 * !Y)	-0.00038	-0.00038	-0.00038
	(!A0 * !A1 * !B1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * !B1 * !Y)	0.00003	0.00004	0.00006
	(!A0 * !A1 * !B1 * !Y)	0.00007	0.00008	0.00009

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X6H7H	(A1 * B1 * Y)	0.00016	0.00016	0.00017
	(A1 * B1 * Y)	0.00003	0.00003	0.00004
	(A1 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * Y)	-0.00042	-0.00041	-0.00041
	(A0 * !A1 * B1 * Y)	0.00016	0.00016	0.00017
	(A0 * !A1 * B1 * Y)	0.00002	0.00003	0.00004
	(A0 * !A1 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B1 * Y)	-0.00042	-0.00041	-0.00041
	(!A0 * !A1 * B1 * !Y)	0.00034	0.00035	0.00035
	(!A0 * !A1 * B1 * !Y)	0.00003	0.00003	0.00004
	(!A0 * !A1 * B1 * !Y)	-0.00004	-0.00004	-0.00003
	(!A0 * !A1 * B1 * !Y)	-0.00008	-0.00008	-0.00007
	(!A0 * !A1 * !B1 * !Y)	0.00038	0.00038	0.00038
	(!A0 * !A1 * !B1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * !B1 * !Y)	-0.00004	-0.00004	-0.00003
	(!A0 * !A1 * !B1 * !Y)	-0.00008	-0.00008	-0.00007

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X6H7H	(A1 * B0 * Y)	-0.00000	0.00000	0.00001
	(A1 * B0 * Y)	-0.00006	-0.00005	-0.00005
	(A1 * B0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * Y)	0.00042	0.00042	0.00043
	(A0 * !A1 * B0 * Y)	-0.00001	-0.00000	0.00000
	(A0 * !A1 * B0 * Y)	-0.00005	-0.00005	-0.00004
	(A0 * !A1 * B0 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B0 * Y)	0.00042	0.00042	0.00043
	(!A0 * !A1 * B0 * !Y)	-0.00032	-0.00031	-0.00029
	(!A0 * !A1 * B0 * !Y)	-0.00004	-0.00004	-0.00003
	(!A0 * !A1 * B0 * !Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * B0 * !Y)	0.00004	0.00004	0.00005
	(!A0 * !A1 * !B0 * !Y)	-0.00036	-0.00036	-0.00035
	(!A0 * !A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * !Y)	0.00004	0.00004	0.00005
	(!A0 * !A1 * !B0 * !Y)	0.00003	0.00004	0.00005

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X6H7H	(A1 * B0 * Y)	-0.00001	-0.00000	0.00000
	(A1 * B0 * Y)	0.00005	0.00006	0.00007
	(A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * Y)	-0.00043	-0.00042	-0.00042
	(A0 * !A1 * B0 * Y)	0.00000	0.00000	0.00001
	(A0 * !A1 * B0 * Y)	0.00005	0.00005	0.00006
	(A0 * !A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B0 * Y)	-0.00043	-0.00042	-0.00042
	(!A0 * !A1 * B0 * !Y)	0.00032	0.00032	0.00032
	(!A0 * !A1 * B0 * !Y)	0.00003	0.00004	0.00004
	(!A0 * !A1 * B0 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * B0 * !Y)	-0.00005	-0.00004	-0.00004
	(!A0 * !A1 * !B0 * !Y)	0.00036	0.00036	0.00036
	(!A0 * !A1 * !B0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * !B0 * !Y)	-0.00005	-0.00004	-0.00004
	(!A0 * !A1 * !B0 * !Y)	-0.00004	-0.00004	-0.00003

OA31X0P5H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

OA31 (Y = (A0 + A1 + A2) • B0)

Truth Table

INPUT				OUTPUT
A0	A1	A2	B0	Y
0	0	0	x	0
0	x	1	0	0
0	x	1	1	1
x	1	x	0	0
x	1	x	1	1
1	x	x	0	0
1	x	x	1	1

Footprint

Cell Name	Area
OA31X0P5H7H	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	A2	B0	Y
OA31X0P5H7H	0.00092	0.00086	0.00090	0.00091	0.03027

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OA31X0P5H7H	0.00000	0.01625	0.01907

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA31X0P5H7H	A0->Y (RR)	0.09360	0.27031	0.70589
	A1->Y (RR)	0.08859	0.26400	0.69535
	A2->Y (RR)	0.08406	0.25779	0.68402
	B0->Y (RR)	0.08486	0.25797	0.68090

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA31X0P5H7H	A0->Y (FF)	0.17495	0.32104	0.67191
	A1->Y (FF)	0.16723	0.31844	0.68400
	A2->Y (FF)	0.15841	0.30504	0.66249
	B0->Y (FF)	0.06420	0.20665	0.54861

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA31X0P5H7H	A0	0.00038	0.00045	0.00050
	A0	0.00012	0.00012	0.00012
	A0	-0.00007	-0.00007	-0.00007
	A0	0.00184	0.00190	0.00196
	A1	0.00040	0.00046	0.00051
	A1	0.00008	0.00008	0.00008
	A1	-0.00007	-0.00007	-0.00007
	A1	0.00170	0.00176	0.00181
	A2	0.00040	0.00046	0.00052
	A2	0.00003	0.00003	0.00003
	A2	-0.00007	-0.00007	-0.00007
	A2	0.00158	0.00164	0.00170
	B0	0.00039	0.00044	0.00051
	B0	0.00012	0.00012	0.00012
	B0	-0.00000	0.00000	0.00002
	B0	0.00149	0.00155	0.00161

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA31X0P5H7H	A0	0.00191	0.00198	0.00205
	A0	-0.00012	-0.00012	-0.00012
	A0	0.00007	0.00007	0.00007
	A0	0.00046	0.00053	0.00060
	A1	0.00175	0.00181	0.00187
	A1	-0.00008	-0.00008	-0.00008
	A1	0.00007	0.00007	0.00007
	A1	0.00049	0.00055	0.00061
	A2	0.00160	0.00166	0.00172
	A2	-0.00003	-0.00003	-0.00003
	A2	0.00007	0.00007	0.00007
	A2	0.00049	0.00054	0.00061
	B0	0.00165	0.00171	0.00177
	B0	-0.00003	-0.00003	-0.00003
	B0	-0.00000	0.00000	0.00001
	B0	0.00049	0.00056	0.00062

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X0P5H7H	(A1 * A2 * B0 * Y)	-0.00009	-0.00008	-0.00007
	(A1 * A2 * B0 * Y)	-0.00002	-0.00002	-0.00001
	(A1 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * A2 * B0 * Y)	0.00033	0.00033	0.00033
	(A1 * !B0 * !Y)	-0.00018	-0.00017	-0.00016
	(A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !Y)	-0.00000	0.00000	0.00000
	(A1 * !B0 * !Y)	0.00024	0.00024	0.00025
	(A1 * !A2 * B0 * Y)	-0.00009	-0.00008	-0.00007
	(A1 * !A2 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * Y)	0.00033	0.00033	0.00033
	(!A1 * A2 * B0 * Y)	-0.00009	-0.00008	-0.00006
	(!A1 * A2 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * B0 * Y)	0.00033	0.00033	0.00033
	(!A1 * A2 * !B0 * !Y)	-0.00018	-0.00017	-0.00015
	(!A1 * A2 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * !B0 * !Y)	-0.00000	0.00000	0.00000
	(!A1 * A2 * !B0 * !Y)	0.00024	0.00024	0.00025
	(!A1 * !A2 * !B0 * !Y)	-0.00021	-0.00021	-0.00021
	(!A1 * !A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B0 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !A2 * !B0 * !Y)	0.00019	0.00020	0.00020

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X0P5H7H	(A1 * A2 * B0 * Y)	0.00009	0.00009	0.00009
	(A1 * A2 * B0 * Y)	0.00001	0.00002	0.00002
	(A1 * A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * A2 * B0 * Y)	-0.00033	-0.00033	-0.00033
	(A1 * !B0 * !Y)	0.00018	0.00018	0.00018
	(A1 * !B0 * !Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * !Y)	-0.00024	-0.00024	-0.00024
	(A1 * !A2 * B0 * Y)	0.00009	0.00009	0.00009
	(A1 * !A2 * B0 * Y)	0.00002	0.00002	0.00002
	(A1 * !A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * Y)	-0.00033	-0.00033	-0.00032
	(!A1 * A2 * B0 * Y)	0.00008	0.00009	0.00009
	(!A1 * A2 * B0 * Y)	0.00002	0.00002	0.00002
	(!A1 * A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * B0 * Y)	-0.00033	-0.00033	-0.00032
	(!A1 * A2 * !B0 * !Y)	0.00017	0.00018	0.00018
	(!A1 * A2 * !B0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * A2 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * A2 * !B0 * !Y)	-0.00024	-0.00024	-0.00024
	(!A1 * !A2 * !B0 * !Y)	0.00021	0.00021	0.00021
	(!A1 * !A2 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !A2 * !B0 * !Y)	-0.00020	-0.00019	-0.00017

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X0P5H7H	(A0 * A2 * B0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A2 * B0 * Y)	-0.00006	-0.00006	-0.00006
	(A0 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * Y)	0.00028	0.00028	0.00028
	(A0 * A2 * !B0 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A2 * !B0 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * A2 * !B0 * !Y)	0.00000	0.00001	0.00001
	(A0 * A2 * !B0 * !Y)	0.00022	0.00023	0.00023
	(A0 * !A2 * B0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * !A2 * B0 * Y)	-0.00005	-0.00005	-0.00004
	(A0 * !A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * Y)	0.00027	0.00028	0.00028
	(A0 * !A2 * !B0 * !Y)	-0.00014	-0.00013	-0.00012
	(A0 * !A2 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B0 * !Y)	0.00023	0.00023	0.00023
	(!A0 * A2 * B0 * Y)	-0.00010	-0.00009	-0.00007
	(!A0 * A2 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * B0 * Y)	0.00027	0.00028	0.00028
	(!A0 * A2 * !B0 * !Y)	-0.00014	-0.00013	-0.00012
	(!A0 * A2 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * !B0 * !Y)	0.00023	0.00023	0.00023
	(!A0 * !A2 * !B0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A2 * !B0 * !Y)	0.00019	0.00019	0.00020

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X0P5H7H	(A0 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * Y)	0.00006	0.00006	0.00006
	(A0 * A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B0 * Y)	-0.00028	-0.00027	-0.00027
	(A0 * A2 * !B0 * !Y)	0.00005	0.00005	0.00005
	(A0 * A2 * !B0 * !Y)	0.00006	0.00006	0.00006
	(A0 * A2 * !B0 * !Y)	-0.00001	-0.00000	-0.00000
	(A0 * A2 * !B0 * !Y)	-0.00023	-0.00023	-0.00022
	(A0 * !A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * Y)	0.00004	0.00005	0.00005
	(A0 * !A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * B0 * Y)	-0.00028	-0.00027	-0.00027
	(A0 * !A2 * !B0 * !Y)	0.00014	0.00014	0.00014
	(A0 * !A2 * !B0 * !Y)	0.00002	0.00002	0.00002
	(A0 * !A2 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * !B0 * !Y)	-0.00023	-0.00023	-0.00023
	(!A0 * A2 * B0 * Y)	0.00009	0.00010	0.00010
	(!A0 * A2 * B0 * Y)	0.00002	0.00002	0.00002
	(!A0 * A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * B0 * Y)	-0.00027	-0.00027	-0.00027
	(!A0 * A2 * !B0 * !Y)	0.00014	0.00014	0.00014
	(!A0 * A2 * !B0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * A2 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * A2 * !B0 * !Y)	-0.00023	-0.00023	-0.00023
	(!A0 * !A2 * !B0 * !Y)	0.00017	0.00017	0.00017
	(!A0 * !A2 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * !B0 * !Y)	-0.00019	-0.00018	-0.00015

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X0P5H7H	(A1 * B0 * Y)	-0.00000	0.00000	0.00001
	(A1 * B0 * Y)	-0.00004	-0.00003	-0.00003
	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00032	0.00032	0.00033
	(A1 * !B0 * !Y)	-0.00015	-0.00014	-0.00012
	(A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !Y)	0.00023	0.00023	0.00023
	(A0 * !A1 * B0 * Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * Y)	0.00032	0.00032	0.00033
	(A0 * !A1 * !B0 * !Y)	-0.00014	-0.00013	-0.00012
	(A0 * !A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B0 * !Y)	0.00022	0.00023	0.00023
	(!A0 * !A1 * !B0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * !Y)	0.00019	0.00019	0.00019

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X0P5H7H	(A1 * B0 * Y)	-0.00001	-0.00000	0.00000
	(A1 * B0 * Y)	0.00003	0.00003	0.00004
	(A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * Y)	-0.00032	-0.00032	-0.00032
	(A1 * !B0 * !Y)	0.00014	0.00015	0.00015
	(A1 * !B0 * !Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * !Y)	-0.00023	-0.00023	-0.00023
	(A0 * !A1 * B0 * Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * Y)	0.00003	0.00003	0.00003
	(A0 * !A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * Y)	-0.00033	-0.00032	-0.00032
	(A0 * !A1 * !B0 * !Y)	0.00014	0.00014	0.00014
	(A0 * !A1 * !B0 * !Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !B0 * !Y)	-0.00023	-0.00023	-0.00022
	(!A0 * !A1 * !B0 * !Y)	0.00017	0.00017	0.00018
	(!A0 * !A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * !Y)	-0.00019	-0.00018	-0.00016

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X0P5H7H	(!A0 * !A1 * !A2 * !Y)	-0.00025	-0.00024	-0.00024
	(!A0 * !A1 * !A2 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !A2 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * !Y)	0.00009	0.00009	0.00010

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X0P5H7H	(!A0 * !A1 * !A2 * !Y)	0.00025	0.00025	0.00025
	(!A0 * !A1 * !A2 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !A2 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * !Y)	-0.00009	-0.00009	-0.00009

OA31X0P7H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

OA31 (Y = (A0 + A1 + A2) • B0)

Truth Table

INPUT				OUTPUT
A0	A1	A2	B0	Y
0	0	0	x	0
0	x	1	0	0
0	x	1	1	1
x	1	x	0	0
x	1	x	1	1
1	x	x	0	0
1	x	x	1	1

Footprint

Cell Name	Area
OA31X0P7H7H	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	A2	B0	Y
OA31X0P7H7H	0.00091	0.00085	0.00090	0.00091	0.03447

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OA31X0P7H7H	0.00000	0.01697	0.02112

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA31X0P7H7H	A0->Y (RR)	0.09216	0.26975	0.70696
	A1->Y (RR)	0.08729	0.26367	0.69698
	A2->Y (RR)	0.08276	0.25748	0.68582
	B0->Y (RR)	0.08350	0.25771	0.68306

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA31X0P7H7H	A0->Y (FF)	0.17477	0.32322	0.67727
	A1->Y (FF)	0.16754	0.32105	0.68994
	A2->Y (FF)	0.15865	0.30763	0.66895
	B0->Y (FF)	0.06335	0.20754	0.55316

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA31X0P7H7H	A0	0.00039	0.00046	0.00052
	A0	0.00011	0.00011	0.00011
	A0	-0.00007	-0.00006	-0.00006
	A0	0.00185	0.00192	0.00198
	A1	0.00041	0.00048	0.00053
	A1	0.00007	0.00007	0.00007
	A1	-0.00007	-0.00006	-0.00006
	A1	0.00171	0.00178	0.00183
	A2	0.00041	0.00048	0.00054
	A2	0.00002	0.00003	0.00003
	A2	-0.00007	-0.00006	-0.00006
	A2	0.00159	0.00166	0.00171
	B0	0.00040	0.00046	0.00053
	B0	0.00011	0.00011	0.00011
	B0	0.00000	0.00000	0.00000
	B0	0.00150	0.00156	0.00162

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA31X0P7H7H	A0	0.00192	0.00199	0.00207
	A0	-0.00011	-0.00011	-0.00011
	A0	0.00006	0.00006	0.00007
	A0	0.00048	0.00054	0.00062
	A1	0.00177	0.00183	0.00189
	A1	-0.00007	-0.00007	-0.00007
	A1	0.00006	0.00006	0.00007
	A1	0.00052	0.00057	0.00064
	A2	0.00162	0.00168	0.00174
	A2	-0.00003	-0.00003	-0.00002
	A2	0.00006	0.00006	0.00007
	A2	0.00051	0.00056	0.00063
	B0	0.00167	0.00173	0.00179
	B0	-0.00003	-0.00003	-0.00002
	B0	-0.00000	-0.00000	0.00000
	B0	0.00052	0.00058	0.00064

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X0P7H7H	(A1 * A2 * B0 * Y)	-0.00009	-0.00008	-0.00007
	(A1 * A2 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * A2 * B0 * Y)	0.00033	0.00034	0.00034
	(A1 * !B0 * !Y)	-0.00018	-0.00017	-0.00016
	(A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !Y)	0.00000	0.00000	0.00001
	(A1 * !B0 * !Y)	0.00023	0.00024	0.00024
	(A1 * !A2 * B0 * Y)	-0.00009	-0.00008	-0.00007
	(A1 * !A2 * B0 * Y)	-0.00002	-0.00002	-0.00001
	(A1 * !A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * Y)	0.00034	0.00034	0.00034
	(!A1 * A2 * B0 * Y)	-0.00008	-0.00008	-0.00007
	(!A1 * A2 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * B0 * Y)	0.00034	0.00034	0.00034
	(!A1 * A2 * !B0 * !Y)	-0.00018	-0.00017	-0.00015
	(!A1 * A2 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * !B0 * !Y)	0.00000	0.00000	0.00001
	(!A1 * A2 * !B0 * !Y)	0.00024	0.00024	0.00024
	(!A1 * !A2 * !B0 * !Y)	-0.00021	-0.00021	-0.00021
	(!A1 * !A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B0 * !Y)	0.00020	0.00021	0.00021

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X0P7H7H	(A1 * A2 * B0 * Y)	0.00008	0.00009	0.00009
	(A1 * A2 * B0 * Y)	0.00002	0.00002	0.00003
	(A1 * A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * A2 * B0 * Y)	-0.00034	-0.00034	-0.00033
	(A1 * !B0 * !Y)	0.00018	0.00018	0.00018
	(A1 * !B0 * !Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * !Y)	-0.00024	-0.00024	-0.00023
	(A1 * !A2 * B0 * Y)	0.00009	0.00009	0.00009
	(A1 * !A2 * B0 * Y)	0.00001	0.00002	0.00002
	(A1 * !A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * Y)	-0.00034	-0.00034	-0.00033
	(!A1 * A2 * B0 * Y)	0.00008	0.00009	0.00009
	(!A1 * A2 * B0 * Y)	0.00002	0.00002	0.00002
	(!A1 * A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * B0 * Y)	-0.00034	-0.00034	-0.00033
	(!A1 * A2 * !B0 * !Y)	0.00018	0.00018	0.00018
	(!A1 * A2 * !B0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * A2 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * A2 * !B0 * !Y)	-0.00024	-0.00024	-0.00024
	(!A1 * !A2 * !B0 * !Y)	0.00021	0.00021	0.00021
	(!A1 * !A2 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B0 * !Y)	-0.00021	-0.00019	-0.00017

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X0P7H7H	(A0 * A2 * B0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A2 * B0 * Y)	-0.00006	-0.00006	-0.00006
	(A0 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * Y)	0.00028	0.00028	0.00028
	(A0 * A2 * !B0 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A2 * !B0 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * A2 * !B0 * !Y)	0.00000	0.00000	0.00001
	(A0 * A2 * !B0 * !Y)	0.00023	0.00023	0.00023
	(A0 * !A2 * B0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * !A2 * B0 * Y)	-0.00005	-0.00005	-0.00004
	(A0 * !A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * Y)	0.00028	0.00028	0.00028
	(A0 * !A2 * !B0 * !Y)	-0.00014	-0.00014	-0.00012
	(A0 * !A2 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B0 * !Y)	0.00023	0.00023	0.00024
	(!A0 * A2 * B0 * Y)	-0.00010	-0.00009	-0.00007
	(!A0 * A2 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * B0 * Y)	0.00028	0.00028	0.00029
	(!A0 * A2 * !B0 * !Y)	-0.00014	-0.00013	-0.00012
	(!A0 * A2 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * !B0 * !Y)	0.00023	0.00023	0.00023
	(!A0 * !A2 * !B0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A2 * !B0 * !Y)	0.00019	0.00019	0.00020

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X0P7H7H	(A0 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * Y)	0.00006	0.00006	0.00006
	(A0 * A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B0 * Y)	-0.00028	-0.00028	-0.00028
	(A0 * A2 * !B0 * !Y)	0.00005	0.00005	0.00005
	(A0 * A2 * !B0 * !Y)	0.00006	0.00006	0.00006
	(A0 * A2 * !B0 * !Y)	-0.00001	-0.00000	-0.00000
	(A0 * A2 * !B0 * !Y)	-0.00023	-0.00023	-0.00023
	(A0 * !A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * Y)	0.00004	0.00005	0.00005
	(A0 * !A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * B0 * Y)	-0.00028	-0.00028	-0.00028
	(A0 * !A2 * !B0 * !Y)	0.00014	0.00014	0.00014
	(A0 * !A2 * !B0 * !Y)	0.00002	0.00002	0.00002
	(A0 * !A2 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A2 * !B0 * !Y)	-0.00023	-0.00023	-0.00023
	(!A0 * A2 * B0 * Y)	0.00009	0.00010	0.00010
	(!A0 * A2 * B0 * Y)	0.00002	0.00002	0.00002
	(!A0 * A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * B0 * Y)	-0.00028	-0.00028	-0.00027
	(!A0 * A2 * !B0 * !Y)	0.00014	0.00014	0.00014
	(!A0 * A2 * !B0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * A2 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * A2 * !B0 * !Y)	-0.00023	-0.00023	-0.00023
	(!A0 * !A2 * !B0 * !Y)	0.00017	0.00017	0.00017
	(!A0 * !A2 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * !B0 * !Y)	-0.00019	-0.00018	-0.00015

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X0P7H7H	(A1 * B0 * Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00032	0.00033	0.00033
	(A1 * !B0 * !Y)	-0.00015	-0.00014	-0.00012
	(A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !Y)	0.00023	0.00023	0.00023
	(A0 * !A1 * B0 * Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * Y)	-0.00004	-0.00003	-0.00003
	(A0 * !A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * Y)	0.00033	0.00033	0.00033
	(A0 * !A1 * !B0 * !Y)	-0.00014	-0.00013	-0.00012
	(A0 * !A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B0 * !Y)	0.00022	0.00023	0.00023
	(!A0 * !A1 * !B0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * !Y)	0.00019	0.00019	0.00019

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X0P7H7H	(A1 * B0 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * Y)	0.00003	0.00003	0.00004
	(A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * Y)	-0.00033	-0.00032	-0.00032
	(A1 * !B0 * !Y)	0.00014	0.00015	0.00015
	(A1 * !B0 * !Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * !Y)	-0.00023	-0.00023	-0.00022
	(A0 * !A1 * B0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * B0 * Y)	0.00003	0.00003	0.00004
	(A0 * !A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * Y)	-0.00033	-0.00033	-0.00032
	(A0 * !A1 * !B0 * !Y)	0.00014	0.00014	0.00014
	(A0 * !A1 * !B0 * !Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !B0 * !Y)	-0.00023	-0.00023	-0.00022
	(!A0 * !A1 * !B0 * !Y)	0.00017	0.00017	0.00018
	(!A0 * !A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * !Y)	-0.00019	-0.00018	-0.00016

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X0P7H7H	(!A0 * !A1 * !A2 * !Y)	-0.00025	-0.00024	-0.00024
	(!A0 * !A1 * !A2 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !A2 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * !Y)	0.00009	0.00009	0.00010

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X0P7H7H	(!A0 * !A1 * !A2 * !Y)	0.00024	0.00025	0.00025
	(!A0 * !A1 * !A2 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !A2 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * !Y)	-0.00009	-0.00009	-0.00009

OA31X1H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

OA31 (Y = (A0 + A1 + A2) • B0)

Truth Table

INPUT				OUTPUT
A0	A1	A2	B0	Y
0	0	0	x	0
0	x	1	0	0
0	x	1	1	1
x	1	x	0	0
x	1	x	1	1
1	x	x	0	0
1	x	x	1	1

Footprint

Cell Name	Area
OA31X1H7H	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	A2	B0	Y
OA31X1H7H	0.00091	0.00084	0.00090	0.00091	0.04135

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OA31X1H7H	0.00000	0.01873	0.02552

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA31X1H7H	A0->Y (RR)	0.09088	0.27015	0.71051
	A1->Y (RR)	0.08610	0.26415	0.70058
	A2->Y (RR)	0.08158	0.25804	0.69052
	B0->Y (RR)	0.08233	0.25837	0.68796

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA31X1H7H	A0->Y (FF)	0.17580	0.32955	0.69473
	A1->Y (FF)	0.16876	0.32757	0.70724
	A2->Y (FF)	0.15999	0.31421	0.68672
	B0->Y (FF)	0.06302	0.21180	0.56842

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA31X1H7H	A0	0.00044	0.00051	0.00057
	A0	0.00011	0.00011	0.00011
	A0	-0.00006	-0.00006	-0.00005
	A0	0.00189	0.00196	0.00202
	A1	0.00045	0.00052	0.00058
	A1	0.00006	0.00007	0.00007
	A1	-0.00006	-0.00006	-0.00006
	A1	0.00174	0.00181	0.00186
	A2	0.00046	0.00053	0.00059
	A2	0.00002	0.00002	0.00002
	A2	-0.00006	-0.00006	-0.00006
	A2	0.00162	0.00169	0.00175
	B0	0.00045	0.00051	0.00057
	B0	0.00011	0.00011	0.00011
	B0	0.00001	0.00001	0.00002
	B0	0.00153	0.00159	0.00166

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA31X1H7H	A0	0.00195	0.00202	0.00210
	A0	-0.00011	-0.00011	-0.00011
	A0	0.00006	0.00006	0.00006
	A0	0.00052	0.00058	0.00066
	A1	0.00180	0.00186	0.00193
	A1	-0.00007	-0.00007	-0.00006
	A1	0.00006	0.00006	0.00006
	A1	0.00056	0.00061	0.00068
	A2	0.00165	0.00171	0.00178
	A2	-0.00002	-0.00002	-0.00001
	A2	0.00006	0.00006	0.00006
	A2	0.00055	0.00061	0.00068
	B0	0.00170	0.00176	0.00182
	B0	-0.00002	-0.00002	-0.00002
	B0	-0.00001	-0.00001	0.00001
	B0	0.00056	0.00063	0.00069

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X1H7H	(A1 * A2 * B0 * Y)	-0.00009	-0.00008	-0.00007
	(A1 * A2 * B0 * Y)	-0.00003	-0.00002	-0.00002
	(A1 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * A2 * B0 * Y)	0.00033	0.00034	0.00034
	(A1 * !B0 * !Y)	-0.00018	-0.00017	-0.00016
	(A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !Y)	0.00000	0.00000	0.00001
	(A1 * !B0 * !Y)	0.00024	0.00025	0.00025
	(A1 * !A2 * B0 * Y)	-0.00009	-0.00008	-0.00007
	(A1 * !A2 * B0 * Y)	-0.00002	-0.00002	-0.00001
	(A1 * !A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * Y)	0.00034	0.00034	0.00034
	(!A1 * A2 * B0 * Y)	-0.00008	-0.00007	-0.00005
	(!A1 * A2 * B0 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * B0 * Y)	0.00033	0.00034	0.00034
	(!A1 * A2 * !B0 * !Y)	-0.00018	-0.00017	-0.00015
	(!A1 * A2 * !B0 * !Y)	-0.00003	-0.00002	-0.00002
	(!A1 * A2 * !B0 * !Y)	-0.00000	0.00000	0.00000
	(!A1 * A2 * !B0 * !Y)	0.00025	0.00025	0.00026
	(!A1 * !A2 * !B0 * !Y)	-0.00021	-0.00020	-0.00020
	(!A1 * !A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B0 * !Y)	0.00021	0.00021	0.00021

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X1H7H	(A1 * A2 * B0 * Y)	0.00009	0.00009	0.00009
	(A1 * A2 * B0 * Y)	0.00002	0.00002	0.00003
	(A1 * A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * A2 * B0 * Y)	-0.00034	-0.00034	-0.00033
	(A1 * !B0 * !Y)	0.00018	0.00018	0.00018
	(A1 * !B0 * !Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * !Y)	-0.00025	-0.00025	-0.00024
	(A1 * !A2 * B0 * Y)	0.00009	0.00009	0.00009
	(A1 * !A2 * B0 * Y)	0.00001	0.00002	0.00002
	(A1 * !A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * Y)	-0.00034	-0.00034	-0.00034
	(!A1 * A2 * B0 * Y)	0.00008	0.00009	0.00009
	(!A1 * A2 * B0 * Y)	0.00001	0.00002	0.00002
	(!A1 * A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * B0 * Y)	-0.00034	-0.00034	-0.00033
	(!A1 * A2 * !B0 * !Y)	0.00017	0.00018	0.00018
	(!A1 * A2 * !B0 * !Y)	0.00002	0.00002	0.00003
	(!A1 * A2 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * A2 * !B0 * !Y)	-0.00025	-0.00025	-0.00025
	(!A1 * !A2 * !B0 * !Y)	0.00021	0.00021	0.00021
	(!A1 * !A2 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B0 * !Y)	-0.00021	-0.00020	-0.00018

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X1H7H	(A0 * A2 * B0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A2 * B0 * Y)	-0.00006	-0.00006	-0.00006
	(A0 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * Y)	0.00028	0.00028	0.00028
	(A0 * A2 * !B0 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A2 * !B0 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * A2 * !B0 * !Y)	0.00000	0.00000	0.00001
	(A0 * A2 * !B0 * !Y)	0.00022	0.00023	0.00023
	(A0 * !A2 * B0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * !A2 * B0 * Y)	-0.00005	-0.00005	-0.00004
	(A0 * !A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * Y)	0.00028	0.00028	0.00028
	(A0 * !A2 * !B0 * !Y)	-0.00014	-0.00014	-0.00012
	(A0 * !A2 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B0 * !Y)	0.00023	0.00023	0.00023
	(!A0 * A2 * B0 * Y)	-0.00010	-0.00008	-0.00006
	(!A0 * A2 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * B0 * Y)	0.00028	0.00028	0.00028
	(!A0 * A2 * !B0 * !Y)	-0.00014	-0.00013	-0.00012
	(!A0 * A2 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A2 * !B0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * A2 * !B0 * !Y)	0.00022	0.00023	0.00023
	(!A0 * !A2 * !B0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * !B0 * !Y)	0.00000	0.00001	0.00002
	(!A0 * !A2 * !B0 * !Y)	0.00019	0.00019	0.00020

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X1H7H	(A0 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * Y)	0.00006	0.00006	0.00006
	(A0 * A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B0 * Y)	-0.00028	-0.00028	-0.00028
	(A0 * A2 * !B0 * !Y)	0.00005	0.00005	0.00005
	(A0 * A2 * !B0 * !Y)	0.00006	0.00006	0.00006
	(A0 * A2 * !B0 * !Y)	-0.00001	-0.00000	0.00000
	(A0 * A2 * !B0 * !Y)	-0.00023	-0.00023	-0.00022
	(A0 * !A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * Y)	0.00005	0.00005	0.00005
	(A0 * !A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * B0 * Y)	-0.00028	-0.00028	-0.00028
	(A0 * !A2 * !B0 * !Y)	0.00014	0.00014	0.00014
	(A0 * !A2 * !B0 * !Y)	0.00002	0.00002	0.00002
	(A0 * !A2 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * !B0 * !Y)	-0.00023	-0.00023	-0.00023
	(!A0 * A2 * B0 * Y)	0.00009	0.00010	0.00010
	(!A0 * A2 * B0 * Y)	0.00002	0.00002	0.00002
	(!A0 * A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * B0 * Y)	-0.00028	-0.00028	-0.00027
	(!A0 * A2 * !B0 * !Y)	0.00014	0.00014	0.00014
	(!A0 * A2 * !B0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * A2 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * A2 * !B0 * !Y)	-0.00023	-0.00023	-0.00022
	(!A0 * !A2 * !B0 * !Y)	0.00017	0.00017	0.00017
	(!A0 * !A2 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A2 * !B0 * !Y)	-0.00002	-0.00001	-0.00000
	(!A0 * !A2 * !B0 * !Y)	-0.00019	-0.00018	-0.00015

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X1H7H	(A1 * B0 * Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * Y)	-0.00003	-0.00003	-0.00002
	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00032	0.00032	0.00033
	(A1 * !B0 * !Y)	-0.00015	-0.00014	-0.00012
	(A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !Y)	0.00023	0.00023	0.00023
	(A0 * !A1 * B0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * B0 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * !A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * Y)	0.00032	0.00033	0.00033
	(A0 * !A1 * !B0 * !Y)	-0.00014	-0.00013	-0.00012
	(A0 * !A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B0 * !Y)	0.00022	0.00023	0.00023
	(!A0 * !A1 * !B0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * !Y)	0.00019	0.00019	0.00019

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X1H7H	(A1 * B0 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * Y)	0.00002	0.00003	0.00003
	(A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * Y)	-0.00033	-0.00032	-0.00032
	(A1 * !B0 * !Y)	0.00014	0.00015	0.00015
	(A1 * !B0 * !Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !Y)	-0.00023	-0.00023	-0.00022
	(A0 * !A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * Y)	0.00003	0.00003	0.00003
	(A0 * !A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * Y)	-0.00033	-0.00032	-0.00032
	(A0 * !A1 * !B0 * !Y)	0.00014	0.00014	0.00014
	(A0 * !A1 * !B0 * !Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !B0 * !Y)	-0.00023	-0.00023	-0.00022
	(!A0 * !A1 * !B0 * !Y)	0.00017	0.00017	0.00018
	(!A0 * !A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * !Y)	-0.00019	-0.00018	-0.00015

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X1H7H	(!A0 * !A1 * !A2 * !Y)	-0.00025	-0.00024	-0.00024
	(!A0 * !A1 * !A2 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !A2 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !A1 * !A2 * !Y)	0.00009	0.00009	0.00010

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X1H7H	(!A0 * !A1 * !A2 * !Y)	0.00024	0.00025	0.00025
	(!A0 * !A1 * !A2 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !A2 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * !Y)	-0.00009	-0.00009	-0.00009

OA31X1P4H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

OA31 (Y = (A0 + A1 + A2) • B0)

Truth Table

INPUT				OUTPUT
A0	A1	A2	B0	Y
0	0	0	x	0
0	x	1	0	0
0	x	1	1	1
x	1	x	0	0
x	1	x	1	1
1	x	x	0	0
1	x	x	1	1

Footprint

Cell Name	Area
OA31X1P4H7H	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	A2	B0	Y
OA31X1P4H7H	0.00092	0.00084	0.00090	0.00091	0.04708

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OA31X1P4H7H	0.00000	0.02119	0.03094

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA31X1P4H7H	A0->Y (RR)	0.09095	0.27120	0.71331
	A1->Y (RR)	0.08613	0.26521	0.70356
	A2->Y (RR)	0.08162	0.25911	0.69307
	B0->Y (RR)	0.08242	0.25953	0.69070

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA31X1P4H7H	A0->Y (FF)	0.17780	0.33414	0.70330
	A1->Y (FF)	0.17069	0.33217	0.71661
	A2->Y (FF)	0.16185	0.31889	0.69555
	B0->Y (FF)	0.06317	0.21403	0.57521

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA31X1P4H7H	A0	0.00048	0.00055	0.00062
	A0	0.00010	0.00010	0.00010
	A0	-0.00006	-0.00006	-0.00005
	A0	0.00192	0.00200	0.00206
	A1	0.00050	0.00057	0.00063
	A1	0.00006	0.00006	0.00006
	A1	-0.00006	-0.00006	-0.00006
	A1	0.00177	0.00184	0.00190
	A2	0.00050	0.00057	0.00064
	A2	0.00001	0.00001	0.00002
	A2	-0.00006	-0.00006	-0.00006
	A2	0.00165	0.00173	0.00179
	B0	0.00049	0.00055	0.00062
	B0	0.00010	0.00010	0.00010
	B0	0.00000	0.00001	0.00003
	B0	0.00156	0.00163	0.00170

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA31X1P4H7H	A0	0.00199	0.00206	0.00214
	A0	-0.00010	-0.00010	-0.00010
	A0	0.00006	0.00006	0.00006
	A0	0.00056	0.00063	0.00071
	A1	0.00184	0.00190	0.00197
	A1	-0.00006	-0.00006	-0.00006
	A1	0.00006	0.00006	0.00006
	A1	0.00061	0.00066	0.00073
	A2	0.00169	0.00175	0.00182
	A2	-0.00001	-0.00001	0.00001
	A2	0.00006	0.00006	0.00006
	A2	0.00060	0.00065	0.00073
	B0	0.00173	0.00180	0.00187
	B0	-0.00002	-0.00002	-0.00000
	B0	-0.00001	-0.00001	0.00000
	B0	0.00060	0.00068	0.00074

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X1P4H7H	(A1 * A2 * B0 * Y)	-0.00009	-0.00008	-0.00007
	(A1 * A2 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * A2 * B0 * Y)	0.00034	0.00034	0.00034
	(A1 * !B0 * !Y)	-0.00018	-0.00017	-0.00016
	(A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !Y)	-0.00000	0.00000	0.00000
	(A1 * !B0 * !Y)	0.00025	0.00025	0.00026
	(A1 * !A2 * B0 * Y)	-0.00009	-0.00008	-0.00006
	(A1 * !A2 * B0 * Y)	-0.00002	-0.00002	-0.00001
	(A1 * !A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * Y)	0.00034	0.00034	0.00034
	(!A1 * A2 * B0 * Y)	-0.00009	-0.00007	-0.00005
	(!A1 * A2 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * B0 * Y)	0.00034	0.00034	0.00034
	(!A1 * A2 * !B0 * !Y)	-0.00018	-0.00017	-0.00015
	(!A1 * A2 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * !B0 * !Y)	0.00000	0.00000	0.00001
	(!A1 * A2 * !B0 * !Y)	0.00025	0.00025	0.00025
	(!A1 * !A2 * !B0 * !Y)	-0.00021	-0.00020	-0.00020
	(!A1 * !A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B0 * !Y)	0.00021	0.00021	0.00022

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X1P4H7H	(A1 * A2 * B0 * Y)	0.00009	0.00009	0.00009
	(A1 * A2 * B0 * Y)	0.00002	0.00002	0.00002
	(A1 * A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * A2 * B0 * Y)	-0.00034	-0.00034	-0.00034
	(A1 * !B0 * !Y)	0.00018	0.00018	0.00018
	(A1 * !B0 * !Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * !Y)	-0.00025	-0.00025	-0.00025
	(A1 * !A2 * B0 * Y)	0.00009	0.00009	0.00009
	(A1 * !A2 * B0 * Y)	0.00001	0.00002	0.00002
	(A1 * !A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * Y)	-0.00034	-0.00034	-0.00034
	(!A1 * A2 * B0 * Y)	0.00008	0.00009	0.00009
	(!A1 * A2 * B0 * Y)	0.00002	0.00002	0.00002
	(!A1 * A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * B0 * Y)	-0.00034	-0.00034	-0.00034
	(!A1 * A2 * !B0 * !Y)	0.00017	0.00018	0.00018
	(!A1 * A2 * !B0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * A2 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * A2 * !B0 * !Y)	-0.00025	-0.00025	-0.00025
	(!A1 * !A2 * !B0 * !Y)	0.00021	0.00021	0.00021
	(!A1 * !A2 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B0 * !Y)	-0.00021	-0.00020	-0.00018

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X1P4H7H	(A0 * A2 * B0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A2 * B0 * Y)	-0.00006	-0.00006	-0.00005
	(A0 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * Y)	0.00028	0.00028	0.00028
	(A0 * A2 * !B0 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A2 * !B0 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A2 * !B0 * !Y)	0.00023	0.00023	0.00023
	(A0 * !A2 * B0 * Y)	-0.00000	0.00000	0.00001
	(A0 * !A2 * B0 * Y)	-0.00005	-0.00005	-0.00005
	(A0 * !A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * Y)	0.00028	0.00028	0.00028
	(A0 * !A2 * !B0 * !Y)	-0.00014	-0.00014	-0.00012
	(A0 * !A2 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B0 * !Y)	0.00023	0.00023	0.00024
	(!A0 * A2 * B0 * Y)	-0.00010	-0.00008	-0.00006
	(!A0 * A2 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * B0 * Y)	0.00028	0.00028	0.00028
	(!A0 * A2 * !B0 * !Y)	-0.00014	-0.00013	-0.00012
	(!A0 * A2 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A2 * !B0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * A2 * !B0 * !Y)	0.00022	0.00023	0.00023
	(!A0 * !A2 * !B0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * !B0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !A2 * !B0 * !Y)	0.00019	0.00019	0.00020

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X1P4H7H	(A0 * A2 * B0 * Y)	0.00000	0.00000	0.00001
	(A0 * A2 * B0 * Y)	0.00005	0.00006	0.00006
	(A0 * A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B0 * Y)	-0.00028	-0.00028	-0.00028
	(A0 * A2 * !B0 * !Y)	0.00005	0.00005	0.00005
	(A0 * A2 * !B0 * !Y)	0.00006	0.00006	0.00006
	(A0 * A2 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A2 * !B0 * !Y)	-0.00023	-0.00023	-0.00023
	(A0 * !A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * Y)	0.00005	0.00005	0.00005
	(A0 * !A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * B0 * Y)	-0.00028	-0.00028	-0.00028
	(A0 * !A2 * !B0 * !Y)	0.00014	0.00014	0.00014
	(A0 * !A2 * !B0 * !Y)	0.00002	0.00002	0.00002
	(A0 * !A2 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A2 * !B0 * !Y)	-0.00023	-0.00023	-0.00023
	(!A0 * A2 * B0 * Y)	0.00009	0.00010	0.00010
	(!A0 * A2 * B0 * Y)	0.00002	0.00002	0.00002
	(!A0 * A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * B0 * Y)	-0.00028	-0.00028	-0.00027
	(!A0 * A2 * !B0 * !Y)	0.00014	0.00014	0.00014
	(!A0 * A2 * !B0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * A2 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * A2 * !B0 * !Y)	-0.00023	-0.00023	-0.00022
	(!A0 * !A2 * !B0 * !Y)	0.00017	0.00017	0.00017
	(!A0 * !A2 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A2 * !B0 * !Y)	-0.00019	-0.00018	-0.00015

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X1P4H7H	(A1 * B0 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * Y)	-0.00003	-0.00003	-0.00002
	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00032	0.00033	0.00033
	(A1 * !B0 * !Y)	-0.00015	-0.00014	-0.00012
	(A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !Y)	0.00023	0.00023	0.00023
	(A0 * !A1 * B0 * Y)	-0.00000	0.00000	0.00001
	(A0 * !A1 * B0 * Y)	-0.00004	-0.00003	-0.00003
	(A0 * !A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * Y)	0.00032	0.00033	0.00033
	(A0 * !A1 * !B0 * !Y)	-0.00014	-0.00013	-0.00012
	(A0 * !A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B0 * !Y)	0.00023	0.00023	0.00023
	(!A0 * !A1 * !B0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !B0 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !A1 * !B0 * !Y)	0.00019	0.00019	0.00019

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X1P4H7H	(A1 * B0 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * Y)	0.00002	0.00003	0.00003
	(A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * Y)	-0.00033	-0.00033	-0.00032
	(A1 * !B0 * !Y)	0.00014	0.00015	0.00015
	(A1 * !B0 * !Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !Y)	-0.00023	-0.00023	-0.00022
	(A0 * !A1 * B0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * B0 * Y)	0.00003	0.00003	0.00004
	(A0 * !A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * Y)	-0.00033	-0.00032	-0.00032
	(A0 * !A1 * !B0 * !Y)	0.00014	0.00014	0.00014
	(A0 * !A1 * !B0 * !Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !B0 * !Y)	-0.00023	-0.00023	-0.00023
	(!A0 * !A1 * !B0 * !Y)	0.00017	0.00017	0.00018
	(!A0 * !A1 * !B0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !B0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * !Y)	-0.00019	-0.00018	-0.00015

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X1P4H7H	(!A0 * !A1 * !A2 * !Y)	-0.00025	-0.00024	-0.00024
	(!A0 * !A1 * !A2 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !A2 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * !A2 * !Y)	0.00009	0.00009	0.00010

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X1P4H7H	(!A0 * !A1 * !A2 * !Y)	0.00024	0.00025	0.00025
	(!A0 * !A1 * !A2 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !A2 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * !A2 * !Y)	-0.00009	-0.00009	-0.00009

OA31X2H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

OA31 (Y = (A0 + A1 + A2) • B0)

Truth Table

INPUT				OUTPUT
A0	A1	A2	B0	Y
0	0	0	x	0
0	x	1	0	0
0	x	1	1	1
x	1	x	0	0
x	1	x	1	1
1	x	x	0	0
1	x	x	1	1

Footprint

Cell Name	Area
OA31X2H7H	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	A2	B0	Y
OA31X2H7H	0.00091	0.00085	0.00090	0.00090	0.06068

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OA31X2H7H	0.00000	0.02242	0.02250

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA31X2H7H	A0->Y (RR)	0.10329	0.28807	0.73978
	A1->Y (RR)	0.09814	0.28196	0.73050
	A2->Y (RR)	0.09400	0.27654	0.72121
	B0->Y (RR)	0.09482	0.27731	0.72150

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA31X2H7H	A0->Y (FF)	0.20220	0.36042	0.72862
	A1->Y (FF)	0.19451	0.35821	0.74307
	A2->Y (FF)	0.18682	0.34628	0.72580
	B0->Y (FF)	0.07167	0.22351	0.58542

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA31X2H7H	A0	0.00082	0.00091	0.00101
	A0	0.00010	0.00010	0.00010
	A0	-0.00005	-0.00005	-0.00004
	A0	0.00222	0.00232	0.00241
	A1	0.00084	0.00093	0.00102
	A1	0.00005	0.00006	0.00006
	A1	-0.00005	-0.00005	-0.00004
	A1	0.00208	0.00217	0.00226
	A2	0.00084	0.00094	0.00103
	A2	0.00001	0.00001	0.00001
	A2	-0.00005	-0.00005	-0.00005
	A2	0.00197	0.00207	0.00216
	B0	0.00083	0.00091	0.00102
	B0	0.00010	0.00010	0.00010
	B0	0.00000	0.00002	0.00005
	B0	0.00187	0.00196	0.00206

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA31X2H7H	A0	0.00236	0.00245	0.00255
	A0	-0.00010	-0.00010	-0.00009
	A0	0.00005	0.00005	0.00005
	A0	0.00097	0.00105	0.00116
	A1	0.00220	0.00228	0.00237
	A1	-0.00006	-0.00006	-0.00005
	A1	0.00005	0.00005	0.00005
	A1	0.00100	0.00107	0.00117
	A2	0.00206	0.00214	0.00224
	A2	-0.00001	-0.00001	-0.00001
	A2	0.00005	0.00005	0.00005
	A2	0.00099	0.00107	0.00117
	B0	0.00209	0.00219	0.00228
	B0	-0.00001	-0.00001	-0.00000
	B0	-0.00002	-0.00002	0.00000
	B0	0.00099	0.00109	0.00118

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X2H7H	(A1 * A2 * B0 * Y)	-0.00009	-0.00008	-0.00007
	(A1 * A2 * B0 * Y)	-0.00003	-0.00002	-0.00002
	(A1 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * A2 * B0 * Y)	0.00032	0.00032	0.00033
	(A1 * !B0 * !Y)	-0.00018	-0.00017	-0.00016
	(A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !Y)	0.00000	0.00000	0.00001
	(A1 * !B0 * !Y)	0.00023	0.00024	0.00024
	(A1 * !A2 * B0 * Y)	-0.00009	-0.00008	-0.00008
	(A1 * !A2 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * Y)	0.00032	0.00033	0.00033
	(!A1 * A2 * B0 * Y)	-0.00009	-0.00007	-0.00006
	(!A1 * A2 * B0 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * B0 * Y)	0.00032	0.00032	0.00033
	(!A1 * A2 * !B0 * !Y)	-0.00017	-0.00016	-0.00015
	(!A1 * A2 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * !B0 * !Y)	0.00000	0.00000	0.00001
	(!A1 * A2 * !B0 * !Y)	0.00023	0.00024	0.00024
	(!A1 * !A2 * !B0 * !Y)	-0.00020	-0.00020	-0.00020
	(!A1 * !A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B0 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !A2 * !B0 * !Y)	0.00019	0.00020	0.00020

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X2H7H	(A1 * A2 * B0 * Y)	0.00008	0.00009	0.00009
	(A1 * A2 * B0 * Y)	0.00002	0.00002	0.00003
	(A1 * A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * A2 * B0 * Y)	-0.00033	-0.00032	-0.00032
	(A1 * !B0 * !Y)	0.00017	0.00017	0.00018
	(A1 * !B0 * !Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * !Y)	-0.00024	-0.00024	-0.00023
	(A1 * !A2 * B0 * Y)	0.00008	0.00009	0.00009
	(A1 * !A2 * B0 * Y)	0.00002	0.00002	0.00003
	(A1 * !A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * Y)	-0.00033	-0.00032	-0.00032
	(!A1 * A2 * B0 * Y)	0.00008	0.00009	0.00009
	(!A1 * A2 * B0 * Y)	0.00001	0.00002	0.00002
	(!A1 * A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * B0 * Y)	-0.00033	-0.00032	-0.00032
	(!A1 * A2 * !B0 * !Y)	0.00017	0.00017	0.00017
	(!A1 * A2 * !B0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * A2 * !B0 * !Y)	-0.00001	-0.00000	0.00000
	(!A1 * A2 * !B0 * !Y)	-0.00024	-0.00024	-0.00023
	(!A1 * !A2 * !B0 * !Y)	0.00020	0.00020	0.00020
	(!A1 * !A2 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A1 * !A2 * !B0 * !Y)	-0.00020	-0.00019	-0.00016

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X2H7H	(A0 * A2 * B0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A2 * B0 * Y)	-0.00006	-0.00005	-0.00005
	(A0 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * Y)	0.00028	0.00028	0.00028
	(A0 * A2 * !B0 * !Y)	-0.00005	-0.00005	-0.00004
	(A0 * A2 * !B0 * !Y)	-0.00006	-0.00006	-0.00005
	(A0 * A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A2 * !B0 * !Y)	0.00023	0.00023	0.00023
	(A0 * !A2 * B0 * Y)	-0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * Y)	-0.00005	-0.00005	-0.00005
	(A0 * !A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * Y)	0.00027	0.00028	0.00028
	(A0 * !A2 * !B0 * !Y)	-0.00014	-0.00013	-0.00011
	(A0 * !A2 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A2 * !B0 * !Y)	0.00000	0.00000	0.00001
	(A0 * !A2 * !B0 * !Y)	0.00022	0.00023	0.00023
	(!A0 * A2 * B0 * Y)	-0.00009	-0.00008	-0.00006
	(!A0 * A2 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * B0 * Y)	0.00027	0.00028	0.00028
	(!A0 * A2 * !B0 * !Y)	-0.00013	-0.00013	-0.00011
	(!A0 * A2 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A2 * !B0 * !Y)	-0.00000	0.00000	0.00001
	(!A0 * A2 * !B0 * !Y)	0.00023	0.00023	0.00023
	(!A0 * !A2 * !B0 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A2 * !B0 * !Y)	0.00019	0.00019	0.00019

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X2H7H	(A0 * A2 * B0 * Y)	0.00000	0.00000	0.00001
	(A0 * A2 * B0 * Y)	0.00005	0.00005	0.00006
	(A0 * A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B0 * Y)	-0.00028	-0.00028	-0.00027
	(A0 * A2 * !B0 * !Y)	0.00004	0.00005	0.00005
	(A0 * A2 * !B0 * !Y)	0.00005	0.00006	0.00006
	(A0 * A2 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A2 * !B0 * !Y)	-0.00023	-0.00023	-0.00022
	(A0 * !A2 * B0 * Y)	-0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * Y)	0.00005	0.00005	0.00005
	(A0 * !A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * B0 * Y)	-0.00028	-0.00028	-0.00027
	(A0 * !A2 * !B0 * !Y)	0.00013	0.00014	0.00014
	(A0 * !A2 * !B0 * !Y)	0.00002	0.00002	0.00002
	(A0 * !A2 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * !B0 * !Y)	-0.00023	-0.00023	-0.00022
	(!A0 * A2 * B0 * Y)	0.00009	0.00009	0.00010
	(!A0 * A2 * B0 * Y)	0.00002	0.00002	0.00002
	(!A0 * A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * B0 * Y)	-0.00027	-0.00027	-0.00027
	(!A0 * A2 * !B0 * !Y)	0.00013	0.00013	0.00013
	(!A0 * A2 * !B0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * A2 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * A2 * !B0 * !Y)	-0.00023	-0.00023	-0.00023
	(!A0 * !A2 * !B0 * !Y)	0.00016	0.00016	0.00016
	(!A0 * !A2 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * !B0 * !Y)	-0.00019	-0.00018	-0.00016

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X2H7H	(A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * Y)	-0.00003	-0.00003	-0.00002
	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00032	0.00032	0.00033
	(A1 * !B0 * !Y)	-0.00015	-0.00014	-0.00013
	(A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !Y)	0.00000	0.00001	0.00002
	(A1 * !B0 * !Y)	0.00021	0.00023	0.00023
	(A0 * !A1 * B0 * Y)	-0.00000	0.00000	0.00001
	(A0 * !A1 * B0 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * !A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * Y)	0.00032	0.00032	0.00033
	(A0 * !A1 * !B0 * !Y)	-0.00014	-0.00013	-0.00012
	(A0 * !A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * !B0 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * !B0 * !Y)	0.00022	0.00023	0.00023
	(!A0 * !A1 * !B0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !A1 * !B0 * !Y)	0.00019	0.00019	0.00019

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X2H7H	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00002	0.00003	0.00003
	(A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * Y)	-0.00033	-0.00032	-0.00032
	(A1 * !B0 * !Y)	0.00015	0.00015	0.00015
	(A1 * !B0 * !Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * !Y)	-0.00023	-0.00023	-0.00021
	(A0 * !A1 * B0 * Y)	-0.00000	0.00000	0.00001
	(A0 * !A1 * B0 * Y)	0.00002	0.00003	0.00003
	(A0 * !A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * Y)	-0.00033	-0.00032	-0.00032
	(A0 * !A1 * !B0 * !Y)	0.00014	0.00014	0.00014
	(A0 * !A1 * !B0 * !Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !B0 * !Y)	-0.00023	-0.00023	-0.00022
	(!A0 * !A1 * !B0 * !Y)	0.00017	0.00017	0.00018
	(!A0 * !A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * !Y)	-0.00019	-0.00018	-0.00016

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X2H7H	(!A0 * !A1 * !A2 * !Y)	-0.00025	-0.00024	-0.00024
	(!A0 * !A1 * !A2 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !A2 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !A1 * !A2 * !Y)	0.00008	0.00009	0.00010

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X2H7H	(!A0 * !A1 * !A2 * !Y)	0.00024	0.00024	0.00025
	(!A0 * !A1 * !A2 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !A2 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * !Y)	-0.00009	-0.00009	-0.00008

OA31X3H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

OA31 (Y = (A0 + A1 + A2) • B0)

Truth Table

INPUT				OUTPUT
A0	A1	A2	B0	Y
0	0	0	x	0
0	x	1	0	0
0	x	1	1	1
x	1	x	0	0
x	1	x	1	1
1	x	x	0	0
1	x	x	1	1

Footprint

Cell Name	Area
OA31X3H7H	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	A2	B0	Y
OA31X3H7H	0.00102	0.00096	0.00102	0.00102	0.08616

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OA31X3H7H	0.00000	0.03353	0.03791

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA31X3H7H	A0->Y (RR)	0.09276	0.27883	0.73334
	A1->Y (RR)	0.08797	0.27277	0.72263
	A2->Y (RR)	0.08331	0.26657	0.71197
	B0->Y (RR)	0.08483	0.26710	0.70944

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA31X3H7H	A0->Y (FF)	0.17418	0.33499	0.70805
	A1->Y (FF)	0.16772	0.33338	0.72145
	A2->Y (FF)	0.15937	0.32045	0.70069
	B0->Y (FF)	0.06158	0.21500	0.57924

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA31X3H7H	A0	0.00098	0.00110	0.00121
	A0	0.00013	0.00013	0.00013
	A0	-0.00006	-0.00006	-0.00006
	A0	0.00262	0.00274	0.00285
	A1	0.00100	0.00111	0.00122
	A1	0.00007	0.00007	0.00007
	A1	-0.00006	-0.00006	-0.00005
	A1	0.00244	0.00256	0.00267
	A2	0.00099	0.00112	0.00123
	A2	0.00001	0.00001	0.00001
	A2	-0.00006	-0.00006	-0.00006
	A2	0.00228	0.00241	0.00252
	B0	0.00098	0.00109	0.00122
	B0	0.00013	0.00013	0.00013
	B0	0.00002	0.00003	0.00005
	B0	0.00220	0.00231	0.00243

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA31X3H7H	A0	0.00277	0.00287	0.00299
	A0	-0.00013	-0.00013	-0.00013
	A0	0.00006	0.00006	0.00006
	A0	0.00114	0.00124	0.00136
	A1	0.00256	0.00266	0.00277
	A1	-0.00007	-0.00007	-0.00007
	A1	0.00006	0.00006	0.00006
	A1	0.00116	0.00126	0.00137
	A2	0.00236	0.00245	0.00258
	A2	-0.00001	-0.00001	-0.00001
	A2	0.00006	0.00006	0.00006
	A2	0.00115	0.00124	0.00137
	B0	0.00244	0.00257	0.00267
	B0	-0.00001	-0.00001	0.00000
	B0	-0.00003	-0.00003	-0.00001
	B0	0.00115	0.00128	0.00139

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X3H7H	(A1 * A2 * B0 * Y)	-0.00012	-0.00011	-0.00009
	(A1 * A2 * B0 * Y)	-0.00003	-0.00003	-0.00002
	(A1 * A2 * B0 * Y)	0.00000	0.00001	0.00001
	(A1 * A2 * B0 * Y)	0.00034	0.00035	0.00035
	(A1 * !B0 * !Y)	-0.00021	-0.00020	-0.00018
	(A1 * !B0 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * !Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * !Y)	0.00025	0.00026	0.00026
	(A1 * !A2 * B0 * Y)	-0.00012	-0.00011	-0.00010
	(A1 * !A2 * B0 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * !A2 * B0 * Y)	0.00000	0.00001	0.00001
	(A1 * !A2 * B0 * Y)	0.00035	0.00035	0.00035
	(!A1 * A2 * B0 * Y)	-0.00011	-0.00011	-0.00009
	(!A1 * A2 * B0 * Y)	-0.00003	-0.00003	-0.00002
	(!A1 * A2 * B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * B0 * Y)	0.00035	0.00035	0.00035
	(!A1 * A2 * !B0 * !Y)	-0.00020	-0.00019	-0.00017
	(!A1 * A2 * !B0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1 * A2 * !B0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * A2 * !B0 * !Y)	0.00025	0.00026	0.00026
	(!A1 * !A2 * !B0 * !Y)	-0.00024	-0.00024	-0.00024
	(!A1 * !A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B0 * !Y)	0.00001	0.00002	0.00003
	(!A1 * !A2 * !B0 * !Y)	0.00021	0.00022	0.00023

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X3H7H	(A1 * A2 * B0 * Y)	0.00012	0.00012	0.00013
	(A1 * A2 * B0 * Y)	0.00002	0.00003	0.00003
	(A1 * A2 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * A2 * B0 * Y)	-0.00035	-0.00035	-0.00034
	(A1 * !B0 * !Y)	0.00020	0.00021	0.00021
	(A1 * !B0 * !Y)	0.00003	0.00003	0.00003
	(A1 * !B0 * !Y)	-0.00001	-0.00000	0.00000
	(A1 * !B0 * !Y)	-0.00026	-0.00026	-0.00025
	(A1 * !A2 * B0 * Y)	0.00012	0.00012	0.00012
	(A1 * !A2 * B0 * Y)	0.00003	0.00003	0.00003
	(A1 * !A2 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * B0 * Y)	-0.00035	-0.00035	-0.00035
	(!A1 * A2 * B0 * Y)	0.00011	0.00012	0.00012
	(!A1 * A2 * B0 * Y)	0.00002	0.00003	0.00003
	(!A1 * A2 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * A2 * B0 * Y)	-0.00035	-0.00035	-0.00034
	(!A1 * A2 * !B0 * !Y)	0.00020	0.00020	0.00020
	(!A1 * A2 * !B0 * !Y)	0.00003	0.00003	0.00003
	(!A1 * A2 * !B0 * !Y)	-0.00001	-0.00000	0.00000
	(!A1 * A2 * !B0 * !Y)	-0.00026	-0.00026	-0.00025
	(!A1 * !A2 * !B0 * !Y)	0.00024	0.00024	0.00024
	(!A1 * !A2 * !B0 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !A2 * !B0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !A2 * !B0 * !Y)	-0.00022	-0.00020	-0.00018

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X3H7H	(A0 * A2 * B0 * Y)	-0.00001	-0.00000	0.00000
	(A0 * A2 * B0 * Y)	-0.00008	-0.00007	-0.00006
	(A0 * A2 * B0 * Y)	0.00000	0.00001	0.00001
	(A0 * A2 * B0 * Y)	0.00030	0.00030	0.00030
	(A0 * A2 * !B0 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A2 * !B0 * !Y)	-0.00008	-0.00008	-0.00007
	(A0 * A2 * !B0 * !Y)	0.00000	0.00001	0.00001
	(A0 * A2 * !B0 * !Y)	0.00025	0.00025	0.00026
	(A0 * !A2 * B0 * Y)	-0.00000	0.00000	0.00001
	(A0 * !A2 * B0 * Y)	-0.00007	-0.00006	-0.00006
	(A0 * !A2 * B0 * Y)	0.00000	0.00001	0.00001
	(A0 * !A2 * B0 * Y)	0.00030	0.00030	0.00030
	(A0 * !A2 * !B0 * !Y)	-0.00017	-0.00016	-0.00014
	(A0 * !A2 * !B0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * !A2 * !B0 * !Y)	0.00000	0.00000	0.00001
	(A0 * !A2 * !B0 * !Y)	0.00025	0.00025	0.00026
	(!A0 * A2 * B0 * Y)	-0.00013	-0.00011	-0.00010
	(!A0 * A2 * B0 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * A2 * B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * B0 * Y)	0.00030	0.00030	0.00031
	(!A0 * A2 * !B0 * !Y)	-0.00017	-0.00015	-0.00014
	(!A0 * A2 * !B0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A2 * !B0 * !Y)	0.00000	0.00001	0.00002
	(!A0 * A2 * !B0 * !Y)	0.00024	0.00025	0.00025
	(!A0 * !A2 * !B0 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * !B0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A2 * !B0 * !Y)	0.00021	0.00021	0.00021

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X3H7H	(A0 * A2 * B0 * Y)	0.00000	0.00000	0.00001
	(A0 * A2 * B0 * Y)	0.00006	0.00007	0.00008
	(A0 * A2 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A2 * B0 * Y)	-0.00030	-0.00030	-0.00029
	(A0 * A2 * !B0 * !Y)	0.00004	0.00004	0.00004
	(A0 * A2 * !B0 * !Y)	0.00007	0.00008	0.00008
	(A0 * A2 * !B0 * !Y)	-0.00001	-0.00001	0.00000
	(A0 * A2 * !B0 * !Y)	-0.00025	-0.00025	-0.00024
	(A0 * !A2 * B0 * Y)	-0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * Y)	0.00006	0.00006	0.00007
	(A0 * !A2 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A2 * B0 * Y)	-0.00030	-0.00030	-0.00029
	(A0 * !A2 * !B0 * !Y)	0.00017	0.00017	0.00017
	(A0 * !A2 * !B0 * !Y)	0.00003	0.00003	0.00003
	(A0 * !A2 * !B0 * !Y)	-0.00001	-0.00000	0.00000
	(A0 * !A2 * !B0 * !Y)	-0.00026	-0.00025	-0.00025
	(!A0 * A2 * B0 * Y)	0.00012	0.00013	0.00013
	(!A0 * A2 * B0 * Y)	0.00002	0.00003	0.00003
	(!A0 * A2 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A2 * B0 * Y)	-0.00030	-0.00029	-0.00029
	(!A0 * A2 * !B0 * !Y)	0.00016	0.00017	0.00017
	(!A0 * A2 * !B0 * !Y)	0.00003	0.00003	0.00003
	(!A0 * A2 * !B0 * !Y)	-0.00001	-0.00000	0.00000
	(!A0 * A2 * !B0 * !Y)	-0.00025	-0.00025	-0.00024
	(!A0 * !A2 * !B0 * !Y)	0.00020	0.00020	0.00021
	(!A0 * !A2 * !B0 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !A2 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A2 * !B0 * !Y)	-0.00021	-0.00019	-0.00017

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X3H7H	(A1 * B0 * Y)	-0.00001	-0.00000	0.00000
	(A1 * B0 * Y)	-0.00004	-0.00004	-0.00003
	(A1 * B0 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * Y)	0.00036	0.00036	0.00036
	(A1 * !B0 * !Y)	-0.00018	-0.00017	-0.00015
	(A1 * !B0 * !Y)	-0.00003	-0.00003	-0.00002
	(A1 * !B0 * !Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * !Y)	0.00025	0.00025	0.00025
	(A0 * !A1 * B0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * B0 * Y)	-0.00004	-0.00004	-0.00003
	(A0 * !A1 * B0 * Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * B0 * Y)	0.00036	0.00036	0.00036
	(A0 * !A1 * !B0 * !Y)	-0.00017	-0.00016	-0.00014
	(A0 * !A1 * !B0 * !Y)	-0.00003	-0.00003	-0.00002
	(A0 * !A1 * !B0 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * !B0 * !Y)	0.00025	0.00025	0.00025
	(!A0 * !A1 * !B0 * !Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !B0 * !Y)	0.00021	0.00021	0.00021

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X3H7H	(A1 * B0 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * Y)	0.00003	0.00004	0.00004
	(A1 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * Y)	-0.00036	-0.00036	-0.00036
	(A1 * !B0 * !Y)	0.00018	0.00018	0.00018
	(A1 * !B0 * !Y)	0.00002	0.00003	0.00003
	(A1 * !B0 * !Y)	-0.00001	-0.00000	-0.00000
	(A1 * !B0 * !Y)	-0.00025	-0.00025	-0.00025
	(A0 * !A1 * B0 * Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * Y)	0.00004	0.00004	0.00005
	(A0 * !A1 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B0 * Y)	-0.00036	-0.00036	-0.00036
	(A0 * !A1 * !B0 * !Y)	0.00017	0.00017	0.00017
	(A0 * !A1 * !B0 * !Y)	0.00003	0.00003	0.00003
	(A0 * !A1 * !B0 * !Y)	-0.00001	-0.00000	0.00000
	(A0 * !A1 * !B0 * !Y)	-0.00025	-0.00025	-0.00025
	(!A0 * !A1 * !B0 * !Y)	0.00021	0.00021	0.00021
	(!A0 * !A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !B0 * !Y)	-0.00021	-0.00019	-0.00016

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X3H7H	(!A0 * !A1 * !A2 * !Y)	-0.00029	-0.00029	-0.00029
	(!A0 * !A1 * !A2 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !A2 * !Y)	0.00002	0.00003	0.00004
	(!A0 * !A1 * !A2 * !Y)	0.00008	0.00009	0.00009

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X3H7H	(!A0 * !A1 * !A2 * !Y)	0.00029	0.00029	0.00029
	(!A0 * !A1 * !A2 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !A2 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * !A2 * !Y)	-0.00009	-0.00009	-0.00008

OA31X4H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

OA31 (Y = (A0 + A1 + A2) • B0)

Truth Table

INPUT				OUTPUT
A0	A1	A2	B0	Y
0	0	0	x	0
0	x	1	0	0
0	x	1	1	1
x	1	x	0	0
x	1	x	1	1
1	x	x	0	0
1	x	x	1	1

Footprint

Cell Name	Area
OA31X4H7H	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	A2	B0	Y
OA31X4H7H	0.00109	0.00103	0.00110	0.00109	0.10868

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OA31X4H7H	0.00000	0.05007	0.06333

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA31X4H7H	A0->Y (RR)	0.08938	0.27620	0.73110
	A1->Y (RR)	0.08479	0.27031	0.72130
	A2->Y (RR)	0.08014	0.26408	0.71054
	B0->Y (RR)	0.08159	0.26425	0.70642

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA31X4H7H	A0->Y (FF)	0.17156	0.33462	0.71092
	A1->Y (FF)	0.16539	0.33320	0.72427
	A2->Y (FF)	0.15688	0.32015	0.70374
	B0->Y (FF)	0.05981	0.21472	0.58185

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA31X4H7H	A0	0.00116	0.00130	0.00142
	A0	0.00013	0.00013	0.00013
	A0	-0.00006	-0.00006	-0.00006
	A0	0.00293	0.00307	0.00319
	A1	0.00118	0.00131	0.00144
	A1	0.00007	0.00007	0.00007
	A1	-0.00006	-0.00006	-0.00006
	A1	0.00273	0.00286	0.00298
	A2	0.00118	0.00132	0.00145
	A2	-0.00001	-0.00000	0.00001
	A2	-0.00006	-0.00006	-0.00006
	A2	0.00254	0.00269	0.00281
	B0	0.00116	0.00129	0.00143
	B0	0.00013	0.00013	0.00013
	B0	0.00005	0.00005	0.00008
	B0	0.00245	0.00258	0.00272

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA31X4H7H	A0	0.00308	0.00320	0.00333
	A0	-0.00013	-0.00013	-0.00013
	A0	0.00006	0.00006	0.00006
	A0	0.00132	0.00144	0.00157
	A1	0.00285	0.00296	0.00309
	A1	-0.00007	-0.00007	-0.00007
	A1	0.00006	0.00006	0.00006
	A1	0.00135	0.00146	0.00159
	A2	0.00261	0.00272	0.00286
	A2	0.00000	0.00001	0.00001
	A2	0.00006	0.00006	0.00006
	A2	0.00134	0.00144	0.00158
	B0	0.00271	0.00285	0.00297
	B0	0.00000	0.00000	0.00002
	B0	-0.00005	-0.00005	-0.00003
	B0	0.00133	0.00147	0.00160

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X4H7H	(A1 * A2 * B0 * Y)	-0.00014	-0.00012	-0.00010
	(A1 * A2 * B0 * Y)	-0.00003	-0.00003	-0.00002
	(A1 * A2 * B0 * Y)	0.00001	0.00001	0.00001
	(A1 * A2 * B0 * Y)	0.00037	0.00037	0.00037
	(A1 * !B0 * !Y)	-0.00022	-0.00021	-0.00019
	(A1 * !B0 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * !Y)	0.00000	0.00001	0.00002
	(A1 * !B0 * !Y)	0.00027	0.00028	0.00029
	(A1 * !A2 * B0 * Y)	-0.00014	-0.00013	-0.00011
	(A1 * !A2 * B0 * Y)	-0.00004	-0.00003	-0.00003
	(A1 * !A2 * B0 * Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * Y)	0.00037	0.00037	0.00037
	(!A1 * A2 * B0 * Y)	-0.00013	-0.00012	-0.00010
	(!A1 * A2 * B0 * Y)	-0.00003	-0.00003	-0.00002
	(!A1 * A2 * B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * B0 * Y)	0.00037	0.00037	0.00037
	(!A1 * A2 * !B0 * !Y)	-0.00022	-0.00020	-0.00018
	(!A1 * A2 * !B0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1 * A2 * !B0 * !Y)	0.00001	0.00001	0.00002
	(!A1 * A2 * !B0 * !Y)	0.00027	0.00028	0.00028
	(!A1 * !A2 * !B0 * !Y)	-0.00026	-0.00026	-0.00026
	(!A1 * !A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B0 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !A2 * !B0 * !Y)	0.00023	0.00024	0.00024

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X4H7H	(A1 * A2 * B0 * Y)	0.00013	0.00014	0.00014
	(A1 * A2 * B0 * Y)	0.00002	0.00003	0.00003
	(A1 * A2 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B0 * Y)	-0.00037	-0.00037	-0.00037
	(A1 * !B0 * !Y)	0.00022	0.00022	0.00022
	(A1 * !B0 * !Y)	0.00003	0.00003	0.00003
	(A1 * !B0 * !Y)	-0.00001	-0.00000	0.00000
	(A1 * !B0 * !Y)	-0.00029	-0.00028	-0.00027
	(A1 * !A2 * B0 * Y)	0.00013	0.00013	0.00014
	(A1 * !A2 * B0 * Y)	0.00003	0.00003	0.00004
	(A1 * !A2 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * Y)	-0.00037	-0.00037	-0.00037
	(!A1 * A2 * B0 * Y)	0.00013	0.00013	0.00014
	(!A1 * A2 * B0 * Y)	0.00002	0.00003	0.00003
	(!A1 * A2 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * B0 * Y)	-0.00037	-0.00037	-0.00037
	(!A1 * A2 * !B0 * !Y)	0.00021	0.00022	0.00022
	(!A1 * A2 * !B0 * !Y)	0.00003	0.00003	0.00003
	(!A1 * A2 * !B0 * !Y)	-0.00001	-0.00001	0.00000
	(!A1 * A2 * !B0 * !Y)	-0.00028	-0.00028	-0.00027
	(!A1 * !A2 * !B0 * !Y)	0.00026	0.00026	0.00026
	(!A1 * !A2 * !B0 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !A2 * !B0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !A2 * !B0 * !Y)	-0.00023	-0.00022	-0.00019

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X4H7H	(A0 * A2 * B0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A2 * B0 * Y)	-0.00008	-0.00008	-0.00008
	(A0 * A2 * B0 * Y)	0.00001	0.00001	0.00001
	(A0 * A2 * B0 * Y)	0.00031	0.00032	0.00032
	(A0 * A2 * !B0 * !Y)	-0.00005	-0.00005	-0.00004
	(A0 * A2 * !B0 * !Y)	-0.00009	-0.00009	-0.00008
	(A0 * A2 * !B0 * !Y)	-0.00000	0.00000	0.00001
	(A0 * A2 * !B0 * !Y)	0.00027	0.00027	0.00027
	(A0 * !A2 * B0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * !A2 * B0 * Y)	-0.00007	-0.00007	-0.00006
	(A0 * !A2 * B0 * Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * B0 * Y)	0.00031	0.00031	0.00032
	(A0 * !A2 * !B0 * !Y)	-0.00019	-0.00017	-0.00015
	(A0 * !A2 * !B0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * !A2 * !B0 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A2 * !B0 * !Y)	0.00027	0.00027	0.00027
	(!A0 * A2 * B0 * Y)	-0.00014	-0.00013	-0.00011
	(!A0 * A2 * B0 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * A2 * B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * B0 * Y)	0.00031	0.00031	0.00032
	(!A0 * A2 * !B0 * !Y)	-0.00018	-0.00017	-0.00015
	(!A0 * A2 * !B0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A2 * !B0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A2 * !B0 * !Y)	0.00026	0.00027	0.00027
	(!A0 * !A2 * !B0 * !Y)	-0.00022	-0.00022	-0.00022
	(!A0 * !A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * !B0 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !A2 * !B0 * !Y)	0.00021	0.00022	0.00022

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X4H7H	(A0 * A2 * B0 * Y)	0.00000	0.00000	0.00001
	(A0 * A2 * B0 * Y)	0.00008	0.00008	0.00008
	(A0 * A2 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A2 * B0 * Y)	-0.00031	-0.00031	-0.00031
	(A0 * A2 * !B0 * !Y)	0.00004	0.00005	0.00005
	(A0 * A2 * !B0 * !Y)	0.00008	0.00009	0.00009
	(A0 * A2 * !B0 * !Y)	-0.00001	-0.00000	0.00000
	(A0 * A2 * !B0 * !Y)	-0.00027	-0.00027	-0.00027
	(A0 * !A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * Y)	0.00007	0.00007	0.00007
	(A0 * !A2 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * B0 * Y)	-0.00031	-0.00031	-0.00031
	(A0 * !A2 * !B0 * !Y)	0.00018	0.00018	0.00019
	(A0 * !A2 * !B0 * !Y)	0.00003	0.00003	0.00003
	(A0 * !A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A2 * !B0 * !Y)	-0.00027	-0.00027	-0.00027
	(!A0 * A2 * B0 * Y)	0.00014	0.00014	0.00015
	(!A0 * A2 * B0 * Y)	0.00002	0.00003	0.00003
	(!A0 * A2 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B0 * Y)	-0.00031	-0.00031	-0.00031
	(!A0 * A2 * !B0 * !Y)	0.00018	0.00018	0.00018
	(!A0 * A2 * !B0 * !Y)	0.00003	0.00003	0.00003
	(!A0 * A2 * !B0 * !Y)	-0.00001	-0.00000	0.00000
	(!A0 * A2 * !B0 * !Y)	-0.00027	-0.00026	-0.00026
	(!A0 * !A2 * !B0 * !Y)	0.00022	0.00022	0.00023
	(!A0 * !A2 * !B0 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !A2 * !B0 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * !A2 * !B0 * !Y)	-0.00022	-0.00020	-0.00017

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X4H7H	(A1 * B0 * Y)	-0.00000	0.00000	0.00001
	(A1 * B0 * Y)	-0.00005	-0.00005	-0.00004
	(A1 * B0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * Y)	0.00038	0.00039	0.00039
	(A1 * !B0 * !Y)	-0.00019	-0.00018	-0.00016
	(A1 * !B0 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * !Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * !Y)	0.00026	0.00027	0.00027
	(A0 * !A1 * B0 * Y)	-0.00000	0.00000	0.00001
	(A0 * !A1 * B0 * Y)	-0.00004	-0.00004	-0.00003
	(A0 * !A1 * B0 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B0 * Y)	0.00038	0.00039	0.00039
	(A0 * !A1 * !B0 * !Y)	-0.00019	-0.00017	-0.00015
	(A0 * !A1 * !B0 * !Y)	-0.00004	-0.00003	-0.00003
	(A0 * !A1 * !B0 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * !B0 * !Y)	0.00026	0.00027	0.00027
	(!A0 * !A1 * !B0 * !Y)	-0.00023	-0.00023	-0.00023
	(!A0 * !A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !B0 * !Y)	0.00022	0.00022	0.00022

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X4H7H	(A1 * B0 * Y)	-0.00001	-0.00000	0.00000
	(A1 * B0 * Y)	0.00005	0.00005	0.00006
	(A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * Y)	-0.00039	-0.00038	-0.00038
	(A1 * !B0 * !Y)	0.00019	0.00019	0.00019
	(A1 * !B0 * !Y)	0.00003	0.00003	0.00003
	(A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * !Y)	-0.00027	-0.00027	-0.00026
	(A0 * !A1 * B0 * Y)	0.00000	0.00000	0.00001
	(A0 * !A1 * B0 * Y)	0.00003	0.00004	0.00005
	(A0 * !A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B0 * Y)	-0.00039	-0.00039	-0.00038
	(A0 * !A1 * !B0 * !Y)	0.00019	0.00019	0.00019
	(A0 * !A1 * !B0 * !Y)	0.00003	0.00003	0.00004
	(A0 * !A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !B0 * !Y)	-0.00027	-0.00027	-0.00026
	(!A0 * !A1 * !B0 * !Y)	0.00023	0.00023	0.00023
	(!A0 * !A1 * !B0 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !B0 * !Y)	-0.00022	-0.00020	-0.00019

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X4H7H	(!A0 * !A1 * !A2 * !Y)	-0.00031	-0.00031	-0.00031
	(!A0 * !A1 * !A2 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !A2 * !Y)	0.00003	0.00003	0.00005
	(!A0 * !A1 * !A2 * !Y)	0.00008	0.00009	0.00010

Passive power(pJ) for B0 falling (conditional):

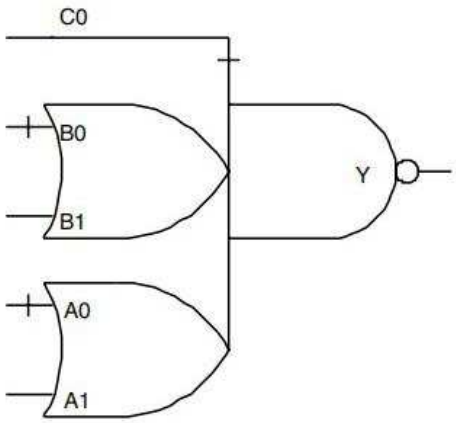
Cell Name	When	Power(pJ)		
		min	avg	max
OA31X4H7H	(!A0 * !A1 * !A2 * !Y)	0.00031	0.00032	0.00032
	(!A0 * !A1 * !A2 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !A2 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * !Y)	-0.00009	-0.00009	-0.00008

OAI211X0P5H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI221 cell provides the logical inverted AND of two OR groups and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	Y
0	0	x	x	1
x	1	0	x	1
x	1	1	0	1
x	1	1	1	0
1	x	0	x	1
1	x	1	0	1
1	x	1	1	0

Footprint

Cell Name	Area
OAI211X0P5H7H	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	**A1**	**B0**	**C0**	**Y**
OAI211X0P5H7H	0.00078	0.00087	0.00084	0.00090	0.01471

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
OAI211X0P5H7H	0.00000	0.00837	0.02248

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI211X0P5H7H	A0->Y (FR)	0.07342	0.25024	0.74824
	A1->Y (FR)	0.07161	0.24468	0.74067
	B0->Y (FR)	0.03136	0.15055	0.53989
	C0->Y (FR)	0.02931	0.14651	0.53639

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI211X0P5H7H	A0->Y (RF)	0.06518	0.22530	0.66587
	A1->Y (RF)	0.06209	0.22041	0.66047
	B0->Y (RF)	0.06040	0.22226	0.69031
	C0->Y (RF)	0.05651	0.21511	0.68856

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI211X0P5H7H	A0	0.00130	0.00133	0.00135
	A0	-0.00013	-0.00013	-0.00013
	A0	0.00011	0.00011	0.00011
	A0	-0.00009	-0.00007	-0.00005
	A1	0.00117	0.00121	0.00124
	A1	-0.00008	-0.00008	-0.00008
	A1	0.00011	0.00011	0.00011
	A1	-0.00004	-0.00002	0.00001
	B0	0.00103	0.00106	0.00108
	B0	-0.00008	-0.00008	-0.00008
	B0	0.00006	0.00006	0.00007
	B0	-0.00010	-0.00007	-0.00005
	C0	0.00092	0.00096	0.00100
	C0	-0.00008	-0.00008	0.00000
	C0	0.00002	0.00012	0.00495
	C0	-0.00009	-0.00005	-0.00001

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI211X0P5H7H	A0	-0.00008	-0.00007	-0.00006
	A0	0.00013	0.00013	0.00013
	A0	-0.00011	-0.00011	-0.00011
	A0	0.00138	0.00140	0.00141
	A1	-0.00010	-0.00007	-0.00005
	A1	0.00008	0.00008	0.00008
	A1	-0.00011	-0.00011	-0.00011
	A1	0.00122	0.00125	0.00127
	B0	-0.00010	-0.00007	-0.00005
	B0	0.00013	0.00013	0.00013
	B0	-0.00006	-0.00006	-0.00006
	B0	0.00103	0.00106	0.00108
	C0	-0.00012	-0.00008	-0.00005
	C0	0.00012	0.00013	0.00013
	C0	-0.00002	-0.00002	-0.00002
	C0	0.00087	0.00090	0.00094

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X0P5H7H	(A1 * B0 * C0 * !Y)	-0.00009	-0.00008	-0.00007
	(A1 * B0 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !Y)	0.00031	0.00031	0.00031
	(A1 * B0 * !C0 * Y)	-0.00009	-0.00008	-0.00007
	(A1 * B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * Y)	0.00030	0.00031	0.00031
	(A1 * !B0 * Y)	-0.00009	-0.00008	-0.00007
	(A1 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * Y)	0.00030	0.00031	0.00031
	(!A1 * B0 * !C0 * Y)	-0.00011	-0.00011	-0.00011
	(!A1 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * !C0 * Y)	0.00025	0.00025	0.00025
	(!A1 * !B0 * C0 * Y)	-0.00011	-0.00011	-0.00011
	(!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * C0 * Y)	0.00026	0.00026	0.00026
	(!A1 * !B0 * !C0 * Y)	-0.00011	-0.00011	-0.00011
	(!A1 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !C0 * Y)	0.00026	0.00026	0.00026

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X0P5H7H	(A1 * B0 * C0 * !Y)	0.00009	0.00009	0.00009
	(A1 * B0 * C0 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * C0 * !Y)	-0.00031	-0.00031	-0.00031
	(A1 * B0 * !C0 * Y)	0.00009	0.00009	0.00009
	(A1 * B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * Y)	-0.00031	-0.00031	-0.00030
	(A1 * !B0 * Y)	0.00009	0.00009	0.00009
	(A1 * !B0 * Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * Y)	-0.00031	-0.00031	-0.00030
	(!A1 * B0 * !C0 * Y)	0.00011	0.00011	0.00011
	(!A1 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * !C0 * Y)	-0.00025	-0.00024	-0.00021
	(!A1 * !B0 * C0 * Y)	0.00011	0.00011	0.00011
	(!A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * C0 * Y)	-0.00026	-0.00025	-0.00022
	(!A1 * !B0 * !C0 * Y)	0.00011	0.00011	0.00011
	(!A1 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C0 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !C0 * Y)	-0.00026	-0.00025	-0.00023

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X0P5H7H	(A0 * B0 * C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * !Y)	0.00031	0.00032	0.00032
	(A0 * B0 * !C0 * Y)	-0.00013	-0.00012	-0.00011
	(A0 * B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * Y)	0.00024	0.00024	0.00024
	(A0 * !B0 * C0 * Y)	-0.00013	-0.00012	-0.00011
	(A0 * !B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * C0 * Y)	0.00024	0.00024	0.00024
	(A0 * !B0 * !C0 * Y)	-0.00013	-0.00012	-0.00011
	(A0 * !B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !C0 * Y)	0.00024	0.00024	0.00024
	(!A0 * B0 * !C0 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !C0 * Y)	0.00001	0.00002	0.00002
	(!A0 * B0 * !C0 * Y)	0.00019	0.00019	0.00019
	(!A0 * !B0 * C0 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * Y)	0.00020	0.00020	0.00020
	(!A0 * !B0 * !C0 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !C0 * Y)	0.00020	0.00020	0.00020

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X0P5H7H	(A0 * B0 * C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * C0 * !Y)	0.00003	0.00003	0.00003
	(A0 * B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * !Y)	-0.00032	-0.00032	-0.00031
	(A0 * B0 * !C0 * Y)	0.00013	0.00013	0.00013
	(A0 * B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(A0 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !C0 * Y)	-0.00024	-0.00024	-0.00024
	(A0 * !B0 * C0 * Y)	0.00013	0.00013	0.00013
	(A0 * !B0 * C0 * Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * C0 * Y)	-0.00024	-0.00024	-0.00024
	(A0 * !B0 * !C0 * Y)	0.00013	0.00013	0.00013
	(A0 * !B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !C0 * Y)	-0.00024	-0.00024	-0.00024
	(!A0 * B0 * !C0 * Y)	0.00015	0.00015	0.00015
	(!A0 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * !C0 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * B0 * !C0 * Y)	-0.00019	-0.00018	-0.00015
	(!A0 * !B0 * C0 * Y)	0.00015	0.00015	0.00015
	(!A0 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * Y)	-0.00020	-0.00018	-0.00016
	(!A0 * !B0 * !C0 * Y)	0.00015	0.00015	0.00015
	(!A0 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * Y)	-0.00020	-0.00018	-0.00016

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X0P5H7H	(A1 * !C0 * Y)	-0.00016	-0.00016	-0.00016
	(A1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A1 * !C0 * Y)	0.00021	0.00021	0.00021
	(A0 * !A1 * !C0 * Y)	-0.00016	-0.00016	-0.00016
	(A0 * !A1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !C0 * Y)	0.00021	0.00021	0.00021
	(!A0 * !A1 * C0 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !A1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * C0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * C0 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * !C0 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !A1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !C0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !C0 * Y)	0.00007	0.00007	0.00008

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X0P5H7H	(A1 * !C0 * Y)	0.00016	0.00016	0.00017
	(A1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !C0 * Y)	-0.00021	-0.00020	-0.00019
	(A0 * !A1 * !C0 * Y)	0.00016	0.00016	0.00017
	(A0 * !A1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !C0 * Y)	-0.00021	-0.00020	-0.00018
	(!A0 * !A1 * C0 * Y)	0.00016	0.00016	0.00016
	(!A0 * !A1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * C0 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * !C0 * Y)	0.00016	0.00016	0.00017
	(!A0 * !A1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !C0 * Y)	-0.00008	-0.00007	-0.00007

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X0P5H7H	(A1 * !B0 * Y)	-0.00026	-0.00026	-0.00025
	(A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * Y)	0.00003	0.00003	0.00003
	(A1 * !B0 * Y)	0.00006	0.00006	0.00006
	(!A1 * !B0 * Y)	-0.00026	-0.00026	-0.00025
	(!A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * B0 * Y)	-0.00026	-0.00026	-0.00025
	(!A0 * !A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for C0 falling (conditional):

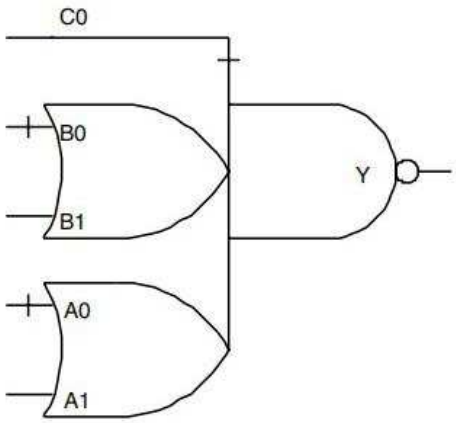
Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X0P5H7H	(A1 * !B0 * Y)	0.00026	0.00026	0.00026
	(A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * Y)	-0.00006	-0.00006	-0.00006
	(!A1 * !B0 * Y)	0.00025	0.00026	0.00026
	(!A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * B0 * Y)	0.00025	0.00026	0.00026
	(!A0 * !A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * Y)	-0.00006	-0.00006	-0.00005

OAI211X0P7H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI221 cell provides the logical inverted AND of two OR groups and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	Y
0	0	x	x	1
x	1	0	x	1
x	1	1	0	1
x	1	1	1	0
1	x	0	x	1
1	x	1	0	1
1	x	1	1	0

Footprint

Cell Name	Area
OAI211X0P7H7H	1.68000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	**A1**	**B0**	**C0**	**Y**
OAI211X0P7H7H	0.00082	0.00092	0.00092	0.00100	0.01681

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
OAI211X0P7H7H	0.00000	0.00925	0.02108

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI211X0P7H7H	A0->Y (FR)	0.06760	0.24554	0.74818
	A1->Y (FR)	0.06543	0.23953	0.74013
	B0->Y (FR)	0.03009	0.14961	0.54145
	C0->Y (FR)	0.02806	0.14571	0.53862

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI211X0P7H7H	A0->Y (RF)	0.06238	0.22643	0.67955
	A1->Y (RF)	0.05860	0.22090	0.67343
	B0->Y (RF)	0.05936	0.22520	0.70602
	C0->Y (RF)	0.05538	0.21692	0.69588

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI211X0P7H7H	A0	0.00140	0.00142	0.00144
	A0	-0.00015	-0.00015	-0.00014
	A0	0.00012	0.00012	0.00012
	A0	-0.00010	-0.00008	-0.00007
	A1	0.00124	0.00128	0.00132
	A1	-0.00009	-0.00009	-0.00009
	A1	0.00012	0.00012	0.00012
	A1	-0.00005	-0.00003	-0.00000
	B0	0.00114	0.00118	0.00121
	B0	-0.00009	-0.00009	-0.00009
	B0	0.00006	0.00007	0.00007
	B0	-0.00010	-0.00007	-0.00004
	C0	0.00103	0.00107	0.00112
	C0	-0.00009	-0.00009	-0.00009
	C0	0.00002	0.00002	0.00003
	C0	-0.00011	-0.00006	-0.00002

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI211X0P7H7H	A0	-0.00009	-0.00008	-0.00007
	A0	0.00014	0.00015	0.00015
	A0	-0.00012	-0.00012	-0.00012
	A0	0.00148	0.00150	0.00151
	A1	-0.00011	-0.00007	-0.00005
	A1	0.00009	0.00009	0.00010
	A1	-0.00012	-0.00012	-0.00012
	A1	0.00131	0.00134	0.00136
	B0	-0.00011	-0.00008	-0.00006
	B0	0.00014	0.00015	0.00015
	B0	-0.00007	-0.00007	-0.00006
	B0	0.00114	0.00117	0.00119
	C0	-0.00014	-0.00010	-0.00006
	C0	0.00014	0.00015	0.00015
	C0	-0.00003	-0.00002	-0.00002
	C0	0.00095	0.00101	0.00106

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X0P7H7H	(A1 * B0 * C0 * !Y)	-0.00010	-0.00009	-0.00008
	(A1 * B0 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !Y)	0.00031	0.00032	0.00032
	(A1 * B0 * !C0 * Y)	-0.00010	-0.00009	-0.00008
	(A1 * B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * Y)	0.00031	0.00032	0.00032
	(A1 * !B0 * Y)	-0.00010	-0.00009	-0.00008
	(A1 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * Y)	0.00031	0.00032	0.00032
	(!A1 * B0 * !C0 * Y)	-0.00012	-0.00012	-0.00012
	(!A1 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * !C0 * Y)	0.00026	0.00027	0.00027
	(!A1 * !B0 * C0 * Y)	-0.00012	-0.00012	-0.00012
	(!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * C0 * Y)	0.00027	0.00027	0.00027
	(!A1 * !B0 * !C0 * Y)	-0.00012	-0.00012	-0.00012
	(!A1 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !C0 * Y)	0.00027	0.00027	0.00027

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X0P7H7H	(A1 * B0 * C0 * !Y)	0.00010	0.00010	0.00010
	(A1 * B0 * C0 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * C0 * !Y)	-0.00000	-0.00000	0.00001
	(A1 * B0 * C0 * !Y)	-0.00032	-0.00031	-0.00031
	(A1 * B0 * !C0 * Y)	0.00010	0.00010	0.00010
	(A1 * B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * Y)	-0.00032	-0.00031	-0.00031
	(A1 * !B0 * Y)	0.00010	0.00010	0.00010
	(A1 * !B0 * Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * Y)	-0.00031	-0.00031	-0.00031
	(!A1 * B0 * !C0 * Y)	0.00012	0.00012	0.00012
	(!A1 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * !C0 * Y)	-0.00027	-0.00025	-0.00023
	(!A1 * !B0 * C0 * Y)	0.00012	0.00012	0.00012
	(!A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * C0 * Y)	-0.00027	-0.00026	-0.00024
	(!A1 * !B0 * !C0 * Y)	0.00012	0.00012	0.00012
	(!A1 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C0 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !C0 * Y)	-0.00027	-0.00026	-0.00024

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X0P7H7H	(A0 * B0 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * C0 * !Y)	-0.00004	-0.00003	-0.00003
	(A0 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * !Y)	0.00032	0.00033	0.00033
	(A0 * B0 * !C0 * Y)	-0.00013	-0.00012	-0.00011
	(A0 * B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !C0 * Y)	0.00000	0.00000	0.00001
	(A0 * B0 * !C0 * Y)	0.00025	0.00026	0.00026
	(A0 * !B0 * C0 * Y)	-0.00013	-0.00012	-0.00011
	(A0 * !B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * C0 * Y)	0.00000	0.00000	0.00001
	(A0 * !B0 * C0 * Y)	0.00025	0.00026	0.00026
	(A0 * !B0 * !C0 * Y)	-0.00013	-0.00012	-0.00009
	(A0 * !B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !C0 * Y)	0.00025	0.00025	0.00026
	(!A0 * B0 * !C0 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * B0 * !C0 * Y)	0.00020	0.00020	0.00020
	(!A0 * !B0 * C0 * Y)	-0.00016	-0.00015	-0.00015
	(!A0 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * C0 * Y)	0.00021	0.00021	0.00021
	(!A0 * !B0 * !C0 * Y)	-0.00015	-0.00015	-0.00014
	(!A0 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * !C0 * Y)	0.00021	0.00021	0.00021

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X0P7H7H	(A0 * B0 * C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * C0 * !Y)	0.00004	0.00004	0.00004
	(A0 * B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * !Y)	-0.00033	-0.00032	-0.00032
	(A0 * B0 * !C0 * Y)	0.00013	0.00013	0.00013
	(A0 * B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(A0 * B0 * !C0 * Y)	-0.00001	-0.00000	-0.00000
	(A0 * B0 * !C0 * Y)	-0.00026	-0.00026	-0.00025
	(A0 * !B0 * C0 * Y)	0.00013	0.00013	0.00013
	(A0 * !B0 * C0 * Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * C0 * Y)	-0.00026	-0.00026	-0.00025
	(A0 * !B0 * !C0 * Y)	0.00013	0.00013	0.00013
	(A0 * !B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !C0 * Y)	-0.00026	-0.00025	-0.00025
	(!A0 * B0 * !C0 * Y)	0.00015	0.00015	0.00015
	(!A0 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * B0 * !C0 * Y)	-0.00020	-0.00019	-0.00017
	(!A0 * !B0 * C0 * Y)	0.00015	0.00015	0.00016
	(!A0 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * C0 * Y)	-0.00021	-0.00020	-0.00018
	(!A0 * !B0 * !C0 * Y)	0.00015	0.00015	0.00016
	(!A0 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * !C0 * Y)	-0.00021	-0.00020	-0.00018

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X0P7H7H	(A1 * !C0 * Y)	-0.00019	-0.00018	-0.00018
	(A1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A1 * !C0 * Y)	0.00021	0.00021	0.00021
	(A0 * !A1 * !C0 * Y)	-0.00019	-0.00018	-0.00018
	(A0 * !A1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !C0 * Y)	0.00001	0.00001	0.00002
	(A0 * !A1 * !C0 * Y)	0.00021	0.00021	0.00021
	(!A0 * !A1 * C0 * Y)	-0.00019	-0.00019	-0.00019
	(!A0 * !A1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * C0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * C0 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * !C0 * Y)	-0.00019	-0.00019	-0.00019
	(!A0 * !A1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !C0 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !C0 * Y)	0.00007	0.00007	0.00007

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X0P7H7H	(A1 * !C0 * Y)	0.00019	0.00019	0.00020
	(A1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !C0 * Y)	-0.00021	-0.00020	-0.00018
	(A0 * !A1 * !C0 * Y)	0.00019	0.00019	0.00020
	(A0 * !A1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !C0 * Y)	-0.00002	-0.00001	-0.00001
	(A0 * !A1 * !C0 * Y)	-0.00021	-0.00020	-0.00019
	(!A0 * !A1 * C0 * Y)	0.00019	0.00019	0.00019
	(!A0 * !A1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * C0 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * !C0 * Y)	0.00019	0.00019	0.00020
	(!A0 * !A1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !C0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !C0 * Y)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X0P7H7H	(A1 * !B0 * Y)	-0.00029	-0.00029	-0.00029
	(A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * Y)	0.00003	0.00003	0.00003
	(A1 * !B0 * Y)	0.00007	0.00007	0.00007
	(!A1 * !B0 * Y)	-0.00029	-0.00029	-0.00029
	(!A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * B0 * Y)	-0.00029	-0.00029	-0.00029
	(!A0 * !A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * Y)	0.00002	0.00002	0.00003
	(!A0 * !A1 * B0 * Y)	0.00008	0.00008	0.00008

Passive power(pJ) for C0 falling (conditional):

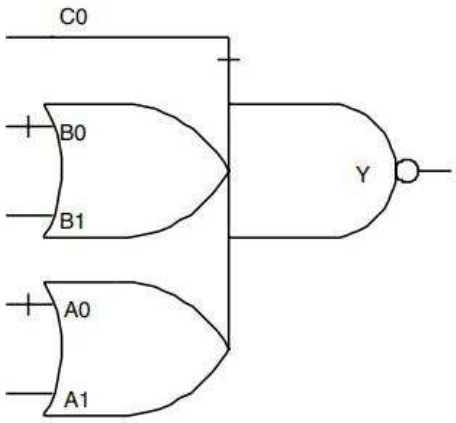
Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X0P7H7H	(A1 * !B0 * Y)	0.00029	0.00029	0.00029
	(A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * Y)	-0.00007	-0.00007	-0.00007
	(!A1 * !B0 * Y)	0.00029	0.00029	0.00029
	(!A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * B0 * Y)	0.00029	0.00029	0.00029
	(!A0 * !A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * Y)	-0.00003	-0.00002	-0.00002
	(!A0 * !A1 * B0 * Y)	-0.00007	-0.00007	-0.00007

OAI211X1H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI221 cell provides the logical inverted AND of two OR groups and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	Y
0	0	x	x	1
x	1	0	x	1
x	1	1	0	1
x	1	1	1	0
1	x	0	x	1
1	x	1	0	1
1	x	1	1	0

Footprint

Cell Name	Area
OAI211X1H7H	1.68000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	**A1**	**B0**	**C0**	**Y**
OAI211X1H7H	0.00089	0.00099	0.00101	0.00107	0.02022

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
OAI211X1H7H	0.00000	0.01140	0.01950

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI211X1H7H	A0->Y (FR)	0.06120	0.24067	0.75049
	A1->Y (FR)	0.05864	0.23419	0.74197
	B0->Y (FR)	0.02739	0.14735	0.54413
	C0->Y (FR)	0.02543	0.14355	0.54067

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI211X1H7H	A0->Y (RF)	0.05957	0.23056	0.70472
	A1->Y (RF)	0.05527	0.22429	0.69816
	B0->Y (RF)	0.05669	0.22926	0.72886
	C0->Y (RF)	0.05216	0.21968	0.71538

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI211X1H7H	A0	0.00155	0.00157	0.00160
	A0	-0.00018	-0.00018	-0.00018
	A0	0.00015	0.00015	0.00015
	A0	-0.00013	-0.00011	-0.00009
	A1	0.00137	0.00140	0.00143
	A1	-0.00011	-0.00011	-0.00011
	A1	0.00014	0.00015	0.00015
	A1	-0.00009	-0.00006	-0.00003
	B0	0.00128	0.00131	0.00134
	B0	-0.00011	-0.00011	-0.00011
	B0	0.00008	0.00008	0.00009
	B0	-0.00013	-0.00009	-0.00006
	C0	0.00114	0.00119	0.00123
	C0	-0.00012	-0.00011	-0.00011
	C0	0.00002	0.00003	0.00003
	C0	-0.00013	-0.00008	-0.00003

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI211X1H7H	A0	-0.00011	-0.00009	-0.00008
	A0	0.00018	0.00018	0.00018
	A0	-0.00015	-0.00015	-0.00015
	A0	0.00165	0.00167	0.00168
	A1	-0.00013	-0.00009	-0.00007
	A1	0.00011	0.00011	0.00012
	A1	-0.00015	-0.00015	-0.00014
	A1	0.00145	0.00148	0.00150
	B0	-0.00014	-0.00010	-0.00007
	B0	0.00018	0.00018	0.00018
	B0	-0.00008	-0.00008	-0.00007
	B0	0.00128	0.00131	0.00134
	C0	-0.00016	-0.00011	-0.00007
	C0	0.00018	0.00018	0.00018
	C0	-0.00003	-0.00003	-0.00002
	C0	0.00108	0.00112	0.00117

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X1H7H	(A1 * B0 * C0 * !Y)	-0.00012	-0.00011	-0.00009
	(A1 * B0 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * C0 * !Y)	0.00000	0.00000	0.00001
	(A1 * B0 * C0 * !Y)	0.00033	0.00033	0.00033
	(A1 * B0 * !C0 * Y)	-0.00012	-0.00011	-0.00009
	(A1 * B0 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * !C0 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !C0 * Y)	0.00033	0.00033	0.00033
	(A1 * !B0 * Y)	-0.00012	-0.00011	-0.00009
	(A1 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * Y)	0.00032	0.00033	0.00033
	(!A1 * B0 * !C0 * Y)	-0.00015	-0.00015	-0.00014
	(!A1 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * !C0 * Y)	0.00027	0.00027	0.00027
	(!A1 * !B0 * C0 * Y)	-0.00015	-0.00015	-0.00014
	(!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * C0 * Y)	0.00028	0.00028	0.00028
	(!A1 * !B0 * !C0 * Y)	-0.00015	-0.00015	-0.00015
	(!A1 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !C0 * Y)	0.00028	0.00028	0.00028

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X1H7H	(A1 * B0 * C0 * !Y)	0.00012	0.00012	0.00012
	(A1 * B0 * C0 * !Y)	0.00003	0.00003	0.00003
	(A1 * B0 * C0 * !Y)	-0.00001	-0.00000	0.00000
	(A1 * B0 * C0 * !Y)	-0.00033	-0.00033	-0.00032
	(A1 * B0 * !C0 * Y)	0.00012	0.00012	0.00012
	(A1 * B0 * !C0 * Y)	0.00003	0.00003	0.00003
	(A1 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !C0 * Y)	-0.00033	-0.00033	-0.00032
	(A1 * !B0 * Y)	0.00012	0.00012	0.00012
	(A1 * !B0 * Y)	0.00003	0.00003	0.00003
	(A1 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * Y)	-0.00033	-0.00033	-0.00032
	(!A1 * B0 * !C0 * Y)	0.00015	0.00015	0.00015
	(!A1 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * !C0 * Y)	-0.00027	-0.00026	-0.00023
	(!A1 * !B0 * C0 * Y)	0.00015	0.00015	0.00015
	(!A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * C0 * Y)	-0.00028	-0.00027	-0.00024
	(!A1 * !B0 * !C0 * Y)	0.00015	0.00015	0.00015
	(!A1 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !C0 * Y)	-0.00028	-0.00027	-0.00024

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X1H7H	(A0 * B0 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * C0 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * B0 * C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * B0 * C0 * !Y)	0.00035	0.00035	0.00035
	(A0 * B0 * !C0 * Y)	-0.00015	-0.00014	-0.00012
	(A0 * B0 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * !C0 * Y)	0.00000	0.00001	0.00001
	(A0 * B0 * !C0 * Y)	0.00027	0.00027	0.00027
	(A0 * !B0 * C0 * Y)	-0.00015	-0.00014	-0.00012
	(A0 * !B0 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * !B0 * C0 * Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * C0 * Y)	0.00027	0.00027	0.00027
	(A0 * !B0 * !C0 * Y)	-0.00015	-0.00013	-0.00010
	(A0 * !B0 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * !B0 * !C0 * Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * !C0 * Y)	0.00027	0.00027	0.00027
	(!A0 * B0 * !C0 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * B0 * !C0 * Y)	0.00021	0.00021	0.00021
	(!A0 * !B0 * C0 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * C0 * Y)	0.00022	0.00022	0.00022
	(!A0 * !B0 * !C0 * Y)	-0.00018	-0.00017	-0.00016
	(!A0 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * !C0 * Y)	0.00022	0.00022	0.00022

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X1H7H	(A0 * B0 * C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * C0 * !Y)	0.00004	0.00004	0.00004
	(A0 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * C0 * !Y)	-0.00035	-0.00035	-0.00035
	(A0 * B0 * !C0 * Y)	0.00015	0.00015	0.00015
	(A0 * B0 * !C0 * Y)	0.00003	0.00003	0.00003
	(A0 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * !C0 * Y)	-0.00027	-0.00027	-0.00027
	(A0 * !B0 * C0 * Y)	0.00015	0.00015	0.00015
	(A0 * !B0 * C0 * Y)	0.00003	0.00003	0.00003
	(A0 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * C0 * Y)	-0.00027	-0.00027	-0.00027
	(A0 * !B0 * !C0 * Y)	0.00015	0.00015	0.00015
	(A0 * !B0 * !C0 * Y)	0.00003	0.00003	0.00003
	(A0 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * !C0 * Y)	-0.00027	-0.00027	-0.00026
	(!A0 * B0 * !C0 * Y)	0.00018	0.00018	0.00018
	(!A0 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * B0 * !C0 * Y)	-0.00021	-0.00020	-0.00017
	(!A0 * !B0 * C0 * Y)	0.00018	0.00018	0.00018
	(!A0 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * C0 * Y)	-0.00022	-0.00021	-0.00018
	(!A0 * !B0 * !C0 * Y)	0.00018	0.00018	0.00018
	(!A0 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * !C0 * Y)	-0.00022	-0.00021	-0.00018

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X1H7H	(A1 * !C0 * Y)	-0.00021	-0.00021	-0.00021
	(A1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !C0 * Y)	0.00001	0.00002	0.00002
	(A1 * !C0 * Y)	0.00022	0.00023	0.00023
	(A0 * !A1 * !C0 * Y)	-0.00021	-0.00021	-0.00021
	(A0 * !A1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !C0 * Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * !C0 * Y)	0.00023	0.00023	0.00023
	(!A0 * !A1 * C0 * Y)	-0.00022	-0.00022	-0.00021
	(!A0 * !A1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * C0 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * C0 * Y)	0.00006	0.00007	0.00007
	(!A0 * !A1 * !C0 * Y)	-0.00022	-0.00022	-0.00022
	(!A0 * !A1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !C0 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !C0 * Y)	0.00007	0.00007	0.00007

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X1H7H	(A1 * !C0 * Y)	0.00021	0.00022	0.00022
	(A1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A1 * !C0 * Y)	-0.00002	-0.00002	-0.00001
	(A1 * !C0 * Y)	-0.00023	-0.00021	-0.00020
	(A0 * !A1 * !C0 * Y)	0.00021	0.00022	0.00023
	(A0 * !A1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * !C0 * Y)	-0.00023	-0.00021	-0.00020
	(!A0 * !A1 * C0 * Y)	0.00022	0.00022	0.00022
	(!A0 * !A1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * C0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * C0 * Y)	-0.00007	-0.00006	-0.00006
	(!A0 * !A1 * !C0 * Y)	0.00022	0.00022	0.00023
	(!A0 * !A1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !C0 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !C0 * Y)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X1H7H	(A1 * !B0 * Y)	-0.00032	-0.00032	-0.00032
	(A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * Y)	0.00003	0.00003	0.00003
	(A1 * !B0 * Y)	0.00007	0.00007	0.00007
	(!A1 * !B0 * Y)	-0.00032	-0.00032	-0.00032
	(!A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * B0 * Y)	-0.00032	-0.00032	-0.00032
	(!A0 * !A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B0 * Y)	0.00007	0.00007	0.00008

Passive power(pJ) for C0 falling (conditional):

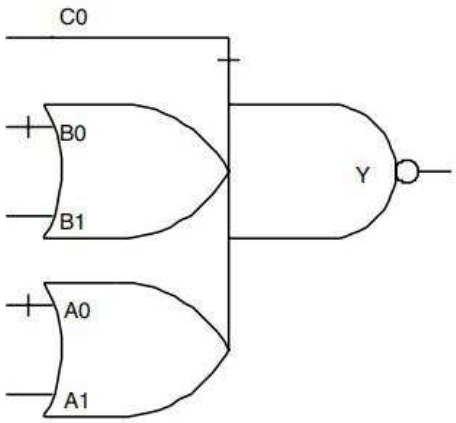
Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X1H7H	(A1 * !B0 * Y)	0.00032	0.00032	0.00032
	(A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * Y)	-0.00007	-0.00007	-0.00007
	(!A1 * !B0 * Y)	0.00032	0.00032	0.00032
	(!A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * B0 * Y)	0.00032	0.00032	0.00032
	(!A0 * !A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B0 * Y)	-0.00007	-0.00007	-0.00007

OAI211X1P4H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI221 cell provides the logical inverted AND of two OR groups and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	Y
0	0	x	x	1
x	1	0	x	1
x	1	1	0	1
x	1	1	1	0
1	x	0	x	1
1	x	1	0	1
1	x	1	1	0

Footprint

Cell Name	Area
OAI211X1P4H7H	1.68000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	**A1**	**B0**	**C0**	**Y**
OAI211X1P4H7H	0.00096	0.00107	0.00107	0.00115	0.02308

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
OAI211X1P4H7H	0.00000	0.01428	0.02157

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI211X1P4H7H	A0->Y (FR)	0.05773	0.23827	0.75198
	A1->Y (FR)	0.05484	0.23138	0.74190
	B0->Y (FR)	0.02574	0.14600	0.54550
	C0->Y (FR)	0.02384	0.14219	0.54218

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI211X1P4H7H	A0->Y (RF)	0.05703	0.23017	0.71232
	A1->Y (RF)	0.05248	0.22343	0.70408
	B0->Y (RF)	0.05402	0.22864	0.73342
	C0->Y (RF)	0.04940	0.21857	0.71821

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI211X1P4H7H	A0	0.00169	0.00172	0.00174
	A0	-0.00021	-0.00021	-0.00021
	A0	0.00017	0.00017	0.00017
	A0	-0.00016	-0.00013	-0.00011
	A1	0.00144	0.00151	0.00155
	A1	-0.00013	-0.00013	-0.00012
	A1	0.00017	0.00017	0.00017
	A1	-0.00012	-0.00008	-0.00005
	B0	0.00139	0.00143	0.00147
	B0	-0.00013	-0.00013	-0.00013
	B0	0.00008	0.00009	0.00009
	B0	-0.00016	-0.00011	-0.00008
	C0	0.00124	0.00129	0.00134
	C0	-0.00013	-0.00013	-0.00013
	C0	0.00003	0.00003	0.00004
	C0	-0.00016	-0.00010	-0.00005

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI211X1P4H7H	A0	-0.00013	-0.00011	-0.00009
	A0	0.00021	0.00021	0.00021
	A0	-0.00017	-0.00017	-0.00017
	A0	0.00181	0.00183	0.00184
	A1	-0.00014	-0.00010	-0.00008
	A1	0.00012	0.00013	0.00014
	A1	-0.00017	-0.00017	-0.00017
	A1	0.00158	0.00162	0.00164
	B0	-0.00015	-0.00011	-0.00008
	B0	0.00016	0.00021	0.00021
	B0	-0.00009	-0.00009	-0.00008
	B0	0.00137	0.00144	0.00147
	C0	-0.00017	-0.00013	-0.00008
	C0	0.00021	0.00021	0.00021
	C0	-0.00003	-0.00003	-0.00003
	C0	0.00115	0.00123	0.00127

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X1P4H7H	(A1 * B0 * C0 * !Y)	-0.00014	-0.00012	-0.00011
	(A1 * B0 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * C0 * !Y)	0.00034	0.00034	0.00035
	(A1 * B0 * !C0 * Y)	-0.00013	-0.00012	-0.00011
	(A1 * B0 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * Y)	0.00034	0.00034	0.00034
	(A1 * !B0 * Y)	-0.00014	-0.00012	-0.00011
	(A1 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * Y)	0.00034	0.00034	0.00034
	(!A1 * B0 * !C0 * Y)	-0.00017	-0.00017	-0.00017
	(!A1 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * !C0 * Y)	0.00028	0.00028	0.00029
	(!A1 * !B0 * C0 * Y)	-0.00017	-0.00017	-0.00017
	(!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * C0 * Y)	0.00029	0.00029	0.00029
	(!A1 * !B0 * !C0 * Y)	-0.00017	-0.00017	-0.00017
	(!A1 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !C0 * Y)	0.00029	0.00029	0.00029

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X1P4H7H	(A1 * B0 * C0 * !Y)	0.00014	0.00014	0.00014
	(A1 * B0 * C0 * !Y)	0.00003	0.00003	0.00003
	(A1 * B0 * C0 * !Y)	-0.00001	-0.00000	0.00001
	(A1 * B0 * C0 * !Y)	-0.00035	-0.00034	-0.00034
	(A1 * B0 * !C0 * Y)	0.00013	0.00013	0.00014
	(A1 * B0 * !C0 * Y)	0.00003	0.00003	0.00003
	(A1 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * Y)	-0.00034	-0.00034	-0.00034
	(A1 * !B0 * Y)	0.00013	0.00014	0.00014
	(A1 * !B0 * Y)	0.00003	0.00003	0.00003
	(A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * Y)	-0.00034	-0.00034	-0.00034
	(!A1 * B0 * !C0 * Y)	0.00017	0.00017	0.00017
	(!A1 * B0 * !C0 * Y)	0.00001	0.00001	0.00002
	(!A1 * B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * !C0 * Y)	-0.00029	-0.00027	-0.00024
	(!A1 * !B0 * C0 * Y)	0.00017	0.00017	0.00017
	(!A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * C0 * Y)	-0.00029	-0.00028	-0.00025
	(!A1 * !B0 * !C0 * Y)	0.00017	0.00017	0.00017
	(!A1 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !C0 * Y)	-0.00029	-0.00028	-0.00025

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X1P4H7H	(A0 * B0 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * C0 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * C0 * !Y)	0.00037	0.00037	0.00037
	(A0 * B0 * !C0 * Y)	-0.00017	-0.00015	-0.00014
	(A0 * B0 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * !C0 * Y)	0.00000	0.00001	0.00001
	(A0 * B0 * !C0 * Y)	0.00028	0.00028	0.00028
	(A0 * !B0 * C0 * Y)	-0.00017	-0.00015	-0.00013
	(A0 * !B0 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * C0 * Y)	0.00028	0.00028	0.00028
	(A0 * !B0 * !C0 * Y)	-0.00017	-0.00016	-0.00014
	(A0 * !B0 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * !B0 * !C0 * Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * !C0 * Y)	0.00028	0.00028	0.00028
	(!A0 * B0 * !C0 * Y)	-0.00020	-0.00020	-0.00020
	(!A0 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * B0 * !C0 * Y)	0.00022	0.00022	0.00022
	(!A0 * !B0 * C0 * Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * C0 * Y)	0.00023	0.00023	0.00023
	(!A0 * !B0 * !C0 * Y)	-0.00020	-0.00020	-0.00018
	(!A0 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * !C0 * Y)	0.00023	0.00023	0.00023

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X1P4H7H	(A0 * B0 * C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * C0 * !Y)	0.00005	0.00005	0.00005
	(A0 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * C0 * !Y)	-0.00037	-0.00037	-0.00037
	(A0 * B0 * !C0 * Y)	0.00017	0.00017	0.00017
	(A0 * B0 * !C0 * Y)	0.00003	0.00003	0.00003
	(A0 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * !C0 * Y)	-0.00028	-0.00028	-0.00028
	(A0 * !B0 * C0 * Y)	0.00017	0.00017	0.00017
	(A0 * !B0 * C0 * Y)	0.00003	0.00003	0.00003
	(A0 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * C0 * Y)	-0.00028	-0.00028	-0.00028
	(A0 * !B0 * !C0 * Y)	0.00017	0.00017	0.00017
	(A0 * !B0 * !C0 * Y)	0.00003	0.00003	0.00003
	(A0 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * !C0 * Y)	-0.00028	-0.00028	-0.00028
	(!A0 * B0 * !C0 * Y)	0.00020	0.00020	0.00020
	(!A0 * B0 * !C0 * Y)	0.00001	0.00001	0.00002
	(!A0 * B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * B0 * !C0 * Y)	-0.00022	-0.00020	-0.00018
	(!A0 * !B0 * C0 * Y)	0.00020	0.00020	0.00020
	(!A0 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * C0 * Y)	-0.00023	-0.00021	-0.00019
	(!A0 * !B0 * !C0 * Y)	0.00020	0.00020	0.00020
	(!A0 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * !C0 * Y)	-0.00023	-0.00021	-0.00019

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X1P4H7H	(A1 * !C0 * Y)	-0.00024	-0.00023	-0.00023
	(A1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !C0 * Y)	0.00002	0.00002	0.00002
	(A1 * !C0 * Y)	0.00024	0.00024	0.00024
	(A0 * !A1 * !C0 * Y)	-0.00024	-0.00023	-0.00023
	(A0 * !A1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !C0 * Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * !C0 * Y)	0.00024	0.00024	0.00024
	(!A0 * !A1 * C0 * Y)	-0.00024	-0.00024	-0.00024
	(!A0 * !A1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * C0 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * C0 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !C0 * Y)	-0.00024	-0.00024	-0.00024
	(!A0 * !A1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !C0 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * !C0 * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X1P4H7H	(A1 * !C0 * Y)	0.00024	0.00024	0.00025
	(A1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !C0 * Y)	-0.00024	-0.00022	-0.00020
	(A0 * !A1 * !C0 * Y)	0.00024	0.00024	0.00025
	(A0 * !A1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * !C0 * Y)	-0.00024	-0.00022	-0.00020
	(!A0 * !A1 * C0 * Y)	0.00024	0.00024	0.00024
	(!A0 * !A1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * C0 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * C0 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !C0 * Y)	0.00024	0.00024	0.00025
	(!A0 * !A1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !C0 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * !C0 * Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X1P4H7H	(A1 * !B0 * Y)	-0.00035	-0.00035	-0.00035
	(A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * Y)	0.00004	0.00004	0.00004
	(A1 * !B0 * Y)	0.00007	0.00007	0.00007
	(!A1 * !B0 * Y)	-0.00035	-0.00035	-0.00035
	(!A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * Y)	0.00004	0.00004	0.00004
	(!A1 * !B0 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * B0 * Y)	-0.00035	-0.00035	-0.00035
	(!A0 * !A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B0 * Y)	0.00007	0.00007	0.00007

Passive power(pJ) for C0 falling (conditional):

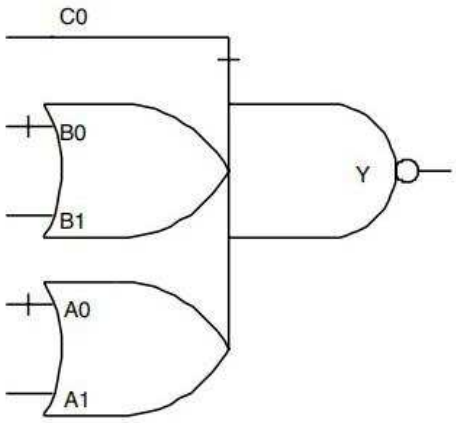
Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X1P4H7H	(A1 * !B0 * Y)	0.00035	0.00035	0.00035
	(A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * Y)	-0.00004	-0.00004	-0.00004
	(A1 * !B0 * Y)	-0.00007	-0.00007	-0.00007
	(!A1 * !B0 * Y)	0.00035	0.00035	0.00035
	(!A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * !B0 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * B0 * Y)	0.00035	0.00035	0.00035
	(!A0 * !A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B0 * Y)	-0.00007	-0.00007	-0.00007

OAI211X2H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI221 cell provides the logical inverted AND of two OR groups and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	Y
0	0	x	x	1
x	1	0	x	1
x	1	1	0	1
x	1	1	1	0
1	x	0	x	1
1	x	1	0	1
1	x	1	1	0

Footprint

Cell Name	Area
OAI211X2H7H	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	**A1**	**B0**	**C0**	**Y**
OAI211X2H7H	0.00106	0.00117	0.00117	0.00126	0.02672

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
OAI211X2H7H	0.00000	0.01964	0.03243

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI211X2H7H	A0->Y (FR)	0.05535	0.23708	0.75453
	A1->Y (FR)	0.05212	0.22973	0.74498
	B0->Y (FR)	0.02439	0.14488	0.54646
	C0->Y (FR)	0.02228	0.14073	0.54312

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI211X2H7H	A0->Y (RF)	0.05401	0.22563	0.70622
	A1->Y (RF)	0.04922	0.21847	0.69771
	B0->Y (RF)	0.05076	0.22387	0.72718
	C0->Y (RF)	0.04595	0.21315	0.70891

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI211X2H7H	A0	0.00191	0.00194	0.00197
	A0	-0.00025	-0.00025	-0.00025
	A0	0.00020	0.00020	0.00021
	A0	-0.00018	-0.00016	-0.00013
	A1	0.00163	0.00169	0.00174
	A1	-0.00016	-0.00016	-0.00016
	A1	0.00020	0.00020	0.00021
	A1	-0.00015	-0.00011	-0.00008
	B0	0.00157	0.00161	0.00166
	B0	-0.00016	-0.00016	-0.00014
	B0	0.00011	0.00011	0.00012
	B0	-0.00019	-0.00014	-0.00011
	C0	0.00139	0.00144	0.00151
	C0	-0.00016	-0.00016	-0.00016
	C0	0.00004	0.00004	0.00005
	C0	-0.00019	-0.00012	-0.00007

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI211X2H7H	A0	-0.00015	-0.00013	-0.00011
	A0	0.00025	0.00025	0.00025
	A0	-0.00021	-0.00020	-0.00020
	A0	0.00205	0.00207	0.00209
	A1	-0.00017	-0.00012	-0.00009
	A1	0.00016	0.00016	0.00016
	A1	-0.00021	-0.00020	-0.00020
	A1	0.00178	0.00183	0.00186
	B0	-0.00017	-0.00013	-0.00010
	B0	0.00025	0.00025	0.00025
	B0	-0.00011	-0.00011	-0.00011
	B0	0.00158	0.00163	0.00167
	C0	-0.00020	-0.00015	-0.00010
	C0	0.00023	0.00025	0.00025
	C0	-0.00004	-0.00004	-0.00004
	C0	0.00128	0.00138	0.00144

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X2H7H	(A1 * B0 * C0 * !Y)	-0.00016	-0.00015	-0.00013
	(A1 * B0 * C0 * !Y)	-0.00004	-0.00003	-0.00003
	(A1 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * C0 * !Y)	0.00037	0.00037	0.00037
	(A1 * B0 * !C0 * Y)	-0.00016	-0.00015	-0.00013
	(A1 * B0 * !C0 * Y)	-0.00004	-0.00003	-0.00003
	(A1 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * Y)	0.00037	0.00037	0.00037
	(A1 * !B0 * Y)	-0.00016	-0.00015	-0.00012
	(A1 * !B0 * Y)	-0.00004	-0.00003	-0.00003
	(A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * Y)	0.00036	0.00037	0.00037
	(!A1 * B0 * !C0 * Y)	-0.00020	-0.00020	-0.00020
	(!A1 * B0 * !C0 * Y)	-0.00002	-0.00001	-0.00001
	(!A1 * B0 * !C0 * Y)	0.00003	0.00003	0.00003
	(!A1 * B0 * !C0 * Y)	0.00030	0.00030	0.00030
	(!A1 * !B0 * C0 * Y)	-0.00020	-0.00020	-0.00020
	(!A1 * !B0 * C0 * Y)	-0.00002	-0.00001	-0.00001
	(!A1 * !B0 * C0 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * C0 * Y)	0.00031	0.00031	0.00031
	(!A1 * !B0 * !C0 * Y)	-0.00020	-0.00020	-0.00020
	(!A1 * !B0 * !C0 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !C0 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * !C0 * Y)	0.00031	0.00031	0.00031

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X2H7H	(A1 * B0 * C0 * !Y)	0.00016	0.00016	0.00016
	(A1 * B0 * C0 * !Y)	0.00003	0.00003	0.00004
	(A1 * B0 * C0 * !Y)	-0.00001	-0.00001	0.00000
	(A1 * B0 * C0 * !Y)	-0.00037	-0.00037	-0.00037
	(A1 * B0 * !C0 * Y)	0.00016	0.00016	0.00016
	(A1 * B0 * !C0 * Y)	0.00003	0.00003	0.00004
	(A1 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * Y)	-0.00037	-0.00037	-0.00036
	(A1 * !B0 * Y)	0.00016	0.00016	0.00016
	(A1 * !B0 * Y)	0.00003	0.00003	0.00004
	(A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * Y)	-0.00037	-0.00037	-0.00036
	(!A1 * B0 * !C0 * Y)	0.00020	0.00020	0.00020
	(!A1 * B0 * !C0 * Y)	0.00001	0.00002	0.00002
	(!A1 * B0 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * B0 * !C0 * Y)	-0.00030	-0.00028	-0.00025
	(!A1 * !B0 * C0 * Y)	0.00020	0.00020	0.00020
	(!A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * C0 * Y)	-0.00031	-0.00029	-0.00026
	(!A1 * !B0 * !C0 * Y)	0.00020	0.00020	0.00020
	(!A1 * !B0 * !C0 * Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * !C0 * Y)	-0.00031	-0.00029	-0.00026

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X2H7H	(A0 * B0 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * C0 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * C0 * !Y)	0.00041	0.00041	0.00041
	(A0 * B0 * !C0 * Y)	-0.00020	-0.00018	-0.00016
	(A0 * B0 * !C0 * Y)	-0.00004	-0.00004	-0.00003
	(A0 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * Y)	0.00030	0.00030	0.00031
	(A0 * !B0 * C0 * Y)	-0.00020	-0.00018	-0.00016
	(A0 * !B0 * C0 * Y)	-0.00004	-0.00004	-0.00003
	(A0 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * C0 * Y)	0.00030	0.00030	0.00031
	(A0 * !B0 * !C0 * Y)	-0.00020	-0.00018	-0.00016
	(A0 * !B0 * !C0 * Y)	-0.00004	-0.00003	-0.00003
	(A0 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !C0 * Y)	0.00030	0.00030	0.00030
	(!A0 * B0 * !C0 * Y)	-0.00024	-0.00024	-0.00024
	(!A0 * B0 * !C0 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * B0 * !C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * B0 * !C0 * Y)	0.00024	0.00024	0.00024
	(!A0 * !B0 * C0 * Y)	-0.00024	-0.00024	-0.00024
	(!A0 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !B0 * C0 * Y)	0.00025	0.00025	0.00025
	(!A0 * !B0 * !C0 * Y)	-0.00024	-0.00023	-0.00021
	(!A0 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !B0 * !C0 * Y)	0.00024	0.00024	0.00025

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X2H7H	(A0 * B0 * C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * C0 * !Y)	0.00006	0.00006	0.00006
	(A0 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * C0 * !Y)	-0.00041	-0.00041	-0.00041
	(A0 * B0 * !C0 * Y)	0.00019	0.00020	0.00020
	(A0 * B0 * !C0 * Y)	0.00004	0.00004	0.00004
	(A0 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * Y)	-0.00030	-0.00030	-0.00030
	(A0 * !B0 * C0 * Y)	0.00020	0.00020	0.00020
	(A0 * !B0 * C0 * Y)	0.00004	0.00004	0.00004
	(A0 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * C0 * Y)	-0.00030	-0.00030	-0.00030
	(A0 * !B0 * !C0 * Y)	0.00019	0.00020	0.00020
	(A0 * !B0 * !C0 * Y)	0.00003	0.00004	0.00004
	(A0 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !C0 * Y)	-0.00030	-0.00030	-0.00030
	(!A0 * B0 * !C0 * Y)	0.00024	0.00024	0.00024
	(!A0 * B0 * !C0 * Y)	0.00001	0.00002	0.00002
	(!A0 * B0 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * B0 * !C0 * Y)	-0.00024	-0.00022	-0.00019
	(!A0 * !B0 * C0 * Y)	0.00024	0.00024	0.00024
	(!A0 * !B0 * C0 * Y)	0.00001	0.00002	0.00002
	(!A0 * !B0 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !B0 * C0 * Y)	-0.00025	-0.00023	-0.00020
	(!A0 * !B0 * !C0 * Y)	0.00024	0.00024	0.00024
	(!A0 * !B0 * !C0 * Y)	0.00001	0.00002	0.00002
	(!A0 * !B0 * !C0 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !B0 * !C0 * Y)	-0.00025	-0.00023	-0.00020

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X2H7H	(A1 * !C0 * Y)	-0.00026	-0.00026	-0.00026
	(A1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !C0 * Y)	0.00002	0.00002	0.00002
	(A1 * !C0 * Y)	0.00026	0.00026	0.00027
	(A0 * !A1 * !C0 * Y)	-0.00026	-0.00026	-0.00026
	(A0 * !A1 * !C0 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * !A1 * !C0 * Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * !C0 * Y)	0.00026	0.00026	0.00027
	(!A0 * !A1 * C0 * Y)	-0.00027	-0.00027	-0.00026
	(!A0 * !A1 * C0 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !A1 * C0 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * C0 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !C0 * Y)	-0.00027	-0.00027	-0.00027
	(!A0 * !A1 * !C0 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !A1 * !C0 * Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * !C0 * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X2H7H	(A1 * !C0 * Y)	0.00027	0.00027	0.00028
	(A1 * !C0 * Y)	0.00001	0.00002	0.00002
	(A1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !C0 * Y)	-0.00026	-0.00025	-0.00023
	(A0 * !A1 * !C0 * Y)	0.00026	0.00027	0.00028
	(A0 * !A1 * !C0 * Y)	0.00001	0.00002	0.00002
	(A0 * !A1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * !C0 * Y)	-0.00026	-0.00025	-0.00023
	(!A0 * !A1 * C0 * Y)	0.00027	0.00027	0.00027
	(!A0 * !A1 * C0 * Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * C0 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * C0 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !C0 * Y)	0.00027	0.00027	0.00028
	(!A0 * !A1 * !C0 * Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * !C0 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * !C0 * Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X2H7H	(A1 * !B0 * Y)	-0.00040	-0.00039	-0.00039
	(A1 * !B0 * Y)	-0.00002	-0.00002	-0.00001
	(A1 * !B0 * Y)	0.00004	0.00004	0.00004
	(A1 * !B0 * Y)	0.00007	0.00007	0.00007
	(!A1 * !B0 * Y)	-0.00040	-0.00039	-0.00039
	(!A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * Y)	0.00004	0.00004	0.00005
	(!A1 * !B0 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * B0 * Y)	-0.00040	-0.00039	-0.00039
	(!A0 * !A1 * B0 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * B0 * Y)	0.00007	0.00007	0.00007

Passive power(pJ) for C0 falling (conditional):

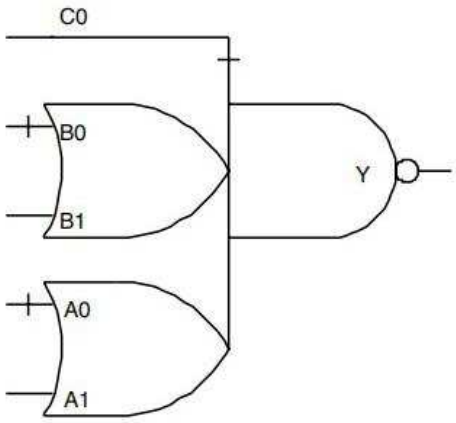
Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X2H7H	(A1 * !B0 * Y)	0.00039	0.00039	0.00040
	(A1 * !B0 * Y)	0.00001	0.00002	0.00002
	(A1 * !B0 * Y)	-0.00004	-0.00004	-0.00004
	(A1 * !B0 * Y)	-0.00007	-0.00007	-0.00007
	(!A1 * !B0 * Y)	0.00039	0.00039	0.00040
	(!A1 * !B0 * Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * !B0 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * B0 * Y)	0.00039	0.00039	0.00040
	(!A0 * !A1 * B0 * Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * B0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * B0 * Y)	-0.00007	-0.00007	-0.00007

OAI211X3H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI221 cell provides the logical inverted AND of two OR groups and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	Y
0	0	x	x	1
x	1	0	x	1
x	1	1	0	1
x	1	1	1	0
1	x	0	x	1
1	x	1	0	1
1	x	1	1	0

Footprint

Cell Name	Area
OAI211X3H7H	3.92000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	**A1**	**B0**	**C0**	**Y**
OAI211X3H7H	0.00179	0.00198	0.00192	0.00197	0.04216

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
OAI211X3H7H	0.00000	0.02496	0.03856

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI211X3H7H	A0->Y (FR)	0.05666	0.23865	0.75420
	A1->Y (FR)	0.05232	0.22958	0.74308
	B0->Y (FR)	0.02435	0.14414	0.54391
	C0->Y (FR)	0.02076	0.13743	0.53835

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI211X3H7H	A0->Y (RF)	0.05666	0.22860	0.70605
	A1->Y (RF)	0.05042	0.22069	0.69935
	B0->Y (RF)	0.05174	0.22607	0.73113
	C0->Y (RF)	0.04288	0.21083	0.71094

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI211X3H7H	A0	0.00338	0.00343	0.00348
	A0	-0.00037	-0.00037	-0.00034
	A0	0.00031	0.00031	0.00031
	A0	-0.00014	-0.00010	-0.00005
	A1	0.00281	0.00291	0.00298
	A1	-0.00024	-0.00024	-0.00021
	A1	0.00031	0.00031	0.00031
	A1	-0.00016	-0.00010	-0.00004
	B0	0.00277	0.00284	0.00291
	B0	-0.00024	-0.00024	-0.00024
	B0	0.00014	0.00017	0.00021
	B0	-0.00017	-0.00009	-0.00003
	C0	0.00230	0.00238	0.00247
	C0	-0.00025	-0.00024	-0.00023
	C0	0.00004	0.00006	0.00007
	C0	-0.00026	-0.00015	-0.00007

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI211X3H7H	A0	-0.00027	-0.00021	-0.00017
	A0	0.00034	0.00037	0.00037
	A0	-0.00031	-0.00031	-0.00031
	A0	0.00340	0.00347	0.00351
	A1	-0.00026	-0.00017	-0.00012
	A1	0.00024	0.00024	0.00025
	A1	-0.00031	-0.00031	-0.00031
	A1	0.00302	0.00310	0.00315
	B0	-0.00019	-0.00013	-0.00008
	B0	0.00037	0.00037	0.00038
	B0	-0.00019	-0.00017	-0.00014
	B0	0.00267	0.00275	0.00280
	C0	-0.00023	-0.00015	-0.00008
	C0	0.00037	0.00037	0.00040
	C0	-0.00006	-0.00006	-0.00004
	C0	0.00214	0.00222	0.00230

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X3H7H	(A1 * B0 * C0 * !Y)	-0.00029	-0.00025	-0.00020
	(A1 * B0 * C0 * !Y)	-0.00006	-0.00006	-0.00006
	(A1 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * C0 * !Y)	0.00061	0.00062	0.00064
	(A1 * B0 * !C0 * Y)	-0.00029	-0.00026	-0.00022
	(A1 * B0 * !C0 * Y)	-0.00006	-0.00006	-0.00006
	(A1 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * Y)	0.00060	0.00060	0.00061
	(A1 * !B0 * Y)	-0.00029	-0.00026	-0.00022
	(A1 * !B0 * Y)	-0.00006	-0.00006	-0.00006
	(A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * Y)	0.00060	0.00060	0.00061
	(!A1 * B0 * !C0 * Y)	-0.00039	-0.00038	-0.00038
	(!A1 * B0 * !C0 * Y)	-0.00003	-0.00002	-0.00002
	(!A1 * B0 * !C0 * Y)	0.00004	0.00004	0.00006
	(!A1 * B0 * !C0 * Y)	0.00047	0.00049	0.00049
	(!A1 * !B0 * C0 * Y)	-0.00038	-0.00038	-0.00038
	(!A1 * !B0 * C0 * Y)	-0.00003	-0.00002	-0.00002
	(!A1 * !B0 * C0 * Y)	0.00004	0.00004	0.00004
	(!A1 * !B0 * C0 * Y)	0.00049	0.00049	0.00050
	(!A1 * !B0 * !C0 * Y)	-0.00038	-0.00038	-0.00038
	(!A1 * !B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !C0 * Y)	0.00004	0.00004	0.00004
	(!A1 * !B0 * !C0 * Y)	0.00049	0.00049	0.00049

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X3H7H	(A1 * B0 * C0 * !Y)	0.00028	0.00029	0.00029
	(A1 * B0 * C0 * !Y)	0.00006	0.00006	0.00006
	(A1 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * C0 * !Y)	-0.00061	-0.00061	-0.00061
	(A1 * B0 * !C0 * Y)	0.00029	0.00029	0.00029
	(A1 * B0 * !C0 * Y)	0.00006	0.00006	0.00006
	(A1 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * Y)	-0.00060	-0.00060	-0.00060
	(A1 * !B0 * Y)	0.00029	0.00029	0.00029
	(A1 * !B0 * Y)	0.00006	0.00006	0.00006
	(A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * Y)	-0.00060	-0.00060	-0.00059
	(!A1 * B0 * !C0 * Y)	0.00039	0.00039	0.00039
	(!A1 * B0 * !C0 * Y)	0.00002	0.00003	0.00003
	(!A1 * B0 * !C0 * Y)	-0.00006	-0.00004	-0.00004
	(!A1 * B0 * !C0 * Y)	-0.00049	-0.00045	-0.00041
	(!A1 * !B0 * C0 * Y)	0.00038	0.00038	0.00039
	(!A1 * !B0 * C0 * Y)	0.00002	0.00003	0.00003
	(!A1 * !B0 * C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * !B0 * C0 * Y)	-0.00050	-0.00047	-0.00042
	(!A1 * !B0 * !C0 * Y)	0.00038	0.00038	0.00039
	(!A1 * !B0 * !C0 * Y)	0.00002	0.00002	0.00003
	(!A1 * !B0 * !C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * !B0 * !C0 * Y)	-0.00049	-0.00046	-0.00041

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X3H7H	(A0 * B0 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * C0 * !Y)	-0.00009	-0.00008	-0.00008
	(A0 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * C0 * !Y)	0.00075	0.00076	0.00076
	(A0 * B0 * !C0 * Y)	-0.00035	-0.00032	-0.00027
	(A0 * B0 * !C0 * Y)	-0.00006	-0.00006	-0.00006
	(A0 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * Y)	0.00056	0.00056	0.00057
	(A0 * !B0 * C0 * Y)	-0.00035	-0.00032	-0.00027
	(A0 * !B0 * C0 * Y)	-0.00006	-0.00006	-0.00005
	(A0 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * C0 * Y)	0.00056	0.00057	0.00057
	(A0 * !B0 * !C0 * Y)	-0.00035	-0.00032	-0.00027
	(A0 * !B0 * !C0 * Y)	-0.00006	-0.00006	-0.00005
	(A0 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !C0 * Y)	0.00056	0.00056	0.00057
	(!A0 * B0 * !C0 * Y)	-0.00045	-0.00045	-0.00045
	(!A0 * B0 * !C0 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * B0 * !C0 * Y)	0.00004	0.00004	0.00004
	(!A0 * B0 * !C0 * Y)	0.00044	0.00044	0.00045
	(!A0 * !B0 * C0 * Y)	-0.00044	-0.00044	-0.00044
	(!A0 * !B0 * C0 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B0 * C0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !B0 * C0 * Y)	0.00045	0.00045	0.00045
	(!A0 * !B0 * !C0 * Y)	-0.00045	-0.00044	-0.00044
	(!A0 * !B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * !C0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !B0 * !C0 * Y)	0.00044	0.00045	0.00045

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X3H7H	(A0 * B0 * C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * C0 * !Y)	0.00009	0.00009	0.00009
	(A0 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * C0 * !Y)	-0.00076	-0.00075	-0.00075
	(A0 * B0 * !C0 * Y)	0.00035	0.00035	0.00035
	(A0 * B0 * !C0 * Y)	0.00006	0.00006	0.00006
	(A0 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * Y)	-0.00056	-0.00056	-0.00056
	(A0 * !B0 * C0 * Y)	0.00035	0.00035	0.00035
	(A0 * !B0 * C0 * Y)	0.00005	0.00006	0.00006
	(A0 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * C0 * Y)	-0.00056	-0.00056	-0.00055
	(A0 * !B0 * !C0 * Y)	0.00035	0.00035	0.00035
	(A0 * !B0 * !C0 * Y)	0.00006	0.00006	0.00006
	(A0 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !C0 * Y)	-0.00056	-0.00056	-0.00056
	(!A0 * B0 * !C0 * Y)	0.00045	0.00045	0.00045
	(!A0 * B0 * !C0 * Y)	0.00002	0.00002	0.00003
	(!A0 * B0 * !C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * B0 * !C0 * Y)	-0.00044	-0.00041	-0.00036
	(!A0 * !B0 * C0 * Y)	0.00044	0.00044	0.00044
	(!A0 * !B0 * C0 * Y)	0.00002	0.00003	0.00003
	(!A0 * !B0 * C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !B0 * C0 * Y)	-0.00045	-0.00042	-0.00037
	(!A0 * !B0 * !C0 * Y)	0.00044	0.00044	0.00045
	(!A0 * !B0 * !C0 * Y)	0.00002	0.00002	0.00003
	(!A0 * !B0 * !C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !B0 * !C0 * Y)	-0.00045	-0.00042	-0.00036

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X3H7H	(A1 * !C0 * Y)	-0.00039	-0.00039	-0.00038
	(A1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !C0 * Y)	0.00003	0.00003	0.00003
	(A1 * !C0 * Y)	0.00050	0.00051	0.00051
	(A0 * !A1 * !C0 * Y)	-0.00039	-0.00039	-0.00039
	(A0 * !A1 * !C0 * Y)	-0.00003	-0.00002	-0.00002
	(A0 * !A1 * !C0 * Y)	0.00003	0.00003	0.00003
	(A0 * !A1 * !C0 * Y)	0.00050	0.00051	0.00051
	(!A0 * !A1 * C0 * Y)	-0.00040	-0.00040	-0.00039
	(!A0 * !A1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * C0 * Y)	0.00010	0.00010	0.00010
	(!A0 * !A1 * C0 * Y)	0.00015	0.00016	0.00016
	(!A0 * !A1 * !C0 * Y)	-0.00040	-0.00040	-0.00040
	(!A0 * !A1 * !C0 * Y)	-0.00003	-0.00002	-0.00002
	(!A0 * !A1 * !C0 * Y)	0.00012	0.00012	0.00012
	(!A0 * !A1 * !C0 * Y)	0.00016	0.00016	0.00016

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X3H7H	(A1 * !C0 * Y)	0.00039	0.00039	0.00041
	(A1 * !C0 * Y)	0.00002	0.00003	0.00003
	(A1 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * !C0 * Y)	-0.00051	-0.00048	-0.00044
	(A0 * !A1 * !C0 * Y)	0.00039	0.00039	0.00041
	(A0 * !A1 * !C0 * Y)	0.00002	0.00003	0.00003
	(A0 * !A1 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * !C0 * Y)	-0.00051	-0.00048	-0.00043
	(!A0 * !A1 * C0 * Y)	0.00040	0.00040	0.00040
	(!A0 * !A1 * C0 * Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * C0 * Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !A1 * C0 * Y)	-0.00016	-0.00016	-0.00015
	(!A0 * !A1 * !C0 * Y)	0.00040	0.00040	0.00041
	(!A0 * !A1 * !C0 * Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * !C0 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * !A1 * !C0 * Y)	-0.00016	-0.00016	-0.00016

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X3H7H	(A1 * !B0 * Y)	-0.00059	-0.00059	-0.00058
	(A1 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * Y)	0.00006	0.00006	0.00006
	(A1 * !B0 * Y)	0.00016	0.00016	0.00017
	(!A1 * !B0 * Y)	-0.00059	-0.00059	-0.00058
	(!A1 * !B0 * Y)	-0.00003	-0.00002	-0.00002
	(!A1 * !B0 * Y)	0.00006	0.00006	0.00006
	(!A1 * !B0 * Y)	0.00016	0.00016	0.00017
	(!A0 * !A1 * B0 * Y)	-0.00058	-0.00058	-0.00058
	(!A0 * !A1 * B0 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * B0 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * B0 * Y)	0.00014	0.00014	0.00014

Passive power(pJ) for C0 falling (conditional):

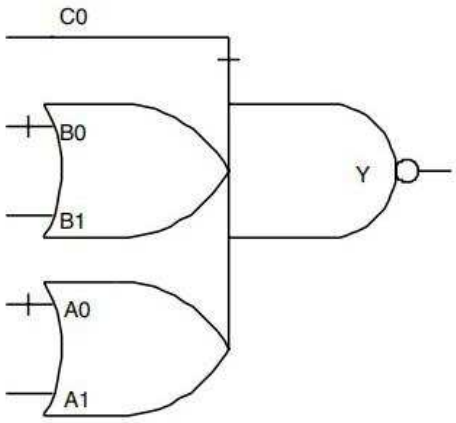
Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X3H7H	(A1 * !B0 * Y)	0.00058	0.00059	0.00059
	(A1 * !B0 * Y)	0.00002	0.00003	0.00003
	(A1 * !B0 * Y)	-0.00006	-0.00006	-0.00006
	(A1 * !B0 * Y)	-0.00016	-0.00016	-0.00016
	(!A1 * !B0 * Y)	0.00059	0.00059	0.00059
	(!A1 * !B0 * Y)	0.00002	0.00003	0.00003
	(!A1 * !B0 * Y)	-0.00006	-0.00006	-0.00006
	(!A1 * !B0 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !A1 * B0 * Y)	0.00058	0.00059	0.00059
	(!A0 * !A1 * B0 * Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * B0 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * B0 * Y)	-0.00014	-0.00014	-0.00014

OAI211X4H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI221 cell provides the logical inverted AND of two OR groups and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	Y
0	0	x	x	1
x	1	0	x	1
x	1	1	0	1
x	1	1	1	0
1	x	0	x	1
1	x	1	0	1
1	x	1	1	0

Footprint

Cell Name	Area
OAI211X4H7H	4.20000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	**A1**	**B0**	**C0**	**Y**
OAI211X4H7H	0.00216	0.00234	0.00233	0.00239	0.05288

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
OAI211X4H7H	0.00000	0.03914	0.06485

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI211X4H7H	A0->Y (FR)	0.05484	0.23823	0.75725
	A1->Y (FR)	0.05005	0.22830	0.74674
	B0->Y (FR)	0.02354	0.14372	0.54557
	C0->Y (FR)	0.02031	0.13771	0.54074

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI211X4H7H	A0->Y (RF)	0.05519	0.22750	0.70920
	A1->Y (RF)	0.04836	0.21881	0.70042
	B0->Y (RF)	0.05076	0.22543	0.73238
	C0->Y (RF)	0.04288	0.21104	0.71055

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI211X4H7H	A0	0.00421	0.00428	0.00434
	A0	-0.00050	-0.00049	-0.00049
	A0	0.00040	0.00041	0.00041
	A0	-0.00018	-0.00013	-0.00008
	A1	0.00345	0.00356	0.00365
	A1	-0.00033	-0.00032	-0.00032
	A1	0.00040	0.00041	0.00041
	A1	-0.00023	-0.00016	-0.00009
	B0	0.00350	0.00359	0.00368
	B0	-0.00032	-0.00032	-0.00031
	B0	0.00021	0.00022	0.00024
	B0	-0.00023	-0.00012	-0.00005
	C0	0.00297	0.00307	0.00318
	C0	-0.00033	-0.00032	-0.00031
	C0	0.00007	0.00008	0.00011
	C0	-0.00028	-0.00015	-0.00005

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI211X4H7H	A0	-0.00035	-0.00028	-0.00023
	A0	0.00049	0.00049	0.00050
	A0	-0.00041	-0.00041	-0.00040
	A0	0.00421	0.00429	0.00434
	A1	-0.00034	-0.00023	-0.00016
	A1	0.00032	0.00032	0.00033
	A1	-0.00041	-0.00041	-0.00040
	A1	0.00368	0.00379	0.00386
	B0	-0.00027	-0.00018	-0.00012
	B0	0.00049	0.00050	0.00050
	B0	-0.00022	-0.00022	-0.00015
	B0	0.00336	0.00345	0.00352
	C0	-0.00031	-0.00021	-0.00012
	C0	0.00049	0.00049	0.00050
	C0	-0.00008	-0.00008	-0.00007
	C0	0.00268	0.00282	0.00292

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X4H7H	(A1 * B0 * C0 * !Y)	-0.00038	-0.00033	-0.00027
	(A1 * B0 * C0 * !Y)	-0.00008	-0.00007	-0.00007
	(A1 * B0 * C0 * !Y)	0.00001	0.00002	0.00002
	(A1 * B0 * C0 * !Y)	0.00068	0.00069	0.00072
	(A1 * B0 * !C0 * Y)	-0.00039	-0.00035	-0.00029
	(A1 * B0 * !C0 * Y)	-0.00008	-0.00007	-0.00007
	(A1 * B0 * !C0 * Y)	0.00001	0.00002	0.00002
	(A1 * B0 * !C0 * Y)	0.00067	0.00067	0.00068
	(A1 * !B0 * Y)	-0.00039	-0.00035	-0.00029
	(A1 * !B0 * Y)	-0.00008	-0.00007	-0.00007
	(A1 * !B0 * Y)	0.00001	0.00002	0.00002
	(A1 * !B0 * Y)	0.00067	0.00067	0.00068
	(!A1 * B0 * !C0 * Y)	-0.00052	-0.00052	-0.00051
	(!A1 * B0 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * B0 * !C0 * Y)	0.00005	0.00005	0.00006
	(!A1 * B0 * !C0 * Y)	0.00053	0.00053	0.00054
	(!A1 * !B0 * C0 * Y)	-0.00051	-0.00051	-0.00051
	(!A1 * !B0 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * C0 * Y)	0.00005	0.00005	0.00005
	(!A1 * !B0 * C0 * Y)	0.00054	0.00054	0.00055
	(!A1 * !B0 * !C0 * Y)	-0.00052	-0.00051	-0.00051
	(!A1 * !B0 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * !C0 * Y)	0.00005	0.00005	0.00005
	(!A1 * !B0 * !C0 * Y)	0.00054	0.00054	0.00054

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X4H7H	(A1 * B0 * C0 * !Y)	0.00038	0.00038	0.00038
	(A1 * B0 * C0 * !Y)	0.00007	0.00008	0.00008
	(A1 * B0 * C0 * !Y)	-0.00002	-0.00001	-0.00001
	(A1 * B0 * C0 * !Y)	-0.00068	-0.00068	-0.00068
	(A1 * B0 * !C0 * Y)	0.00038	0.00038	0.00039
	(A1 * B0 * !C0 * Y)	0.00007	0.00008	0.00008
	(A1 * B0 * !C0 * Y)	-0.00002	-0.00001	-0.00001
	(A1 * B0 * !C0 * Y)	-0.00067	-0.00067	-0.00066
	(A1 * !B0 * Y)	0.00038	0.00038	0.00039
	(A1 * !B0 * Y)	0.00007	0.00008	0.00008
	(A1 * !B0 * Y)	-0.00002	-0.00001	-0.00001
	(A1 * !B0 * Y)	-0.00067	-0.00067	-0.00066
	(!A1 * B0 * !C0 * Y)	0.00052	0.00052	0.00052
	(!A1 * B0 * !C0 * Y)	0.00003	0.00003	0.00003
	(!A1 * B0 * !C0 * Y)	-0.00006	-0.00005	-0.00005
	(!A1 * B0 * !C0 * Y)	-0.00053	-0.00049	-0.00044
	(!A1 * !B0 * C0 * Y)	0.00051	0.00051	0.00052
	(!A1 * !B0 * C0 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * C0 * Y)	-0.00005	-0.00005	-0.00005
	(!A1 * !B0 * C0 * Y)	-0.00055	-0.00051	-0.00045
	(!A1 * !B0 * !C0 * Y)	0.00051	0.00051	0.00052
	(!A1 * !B0 * !C0 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * !C0 * Y)	-0.00005	-0.00005	-0.00005
	(!A1 * !B0 * !C0 * Y)	-0.00054	-0.00051	-0.00045

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X4H7H	(A0 * B0 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * C0 * !Y)	-0.00011	-0.00010	-0.00010
	(A0 * B0 * C0 * !Y)	0.00001	0.00002	0.00002
	(A0 * B0 * C0 * !Y)	0.00088	0.00088	0.00088
	(A0 * B0 * !C0 * Y)	-0.00045	-0.00041	-0.00035
	(A0 * B0 * !C0 * Y)	-0.00008	-0.00007	-0.00007
	(A0 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * Y)	0.00062	0.00063	0.00063
	(A0 * !B0 * C0 * Y)	-0.00045	-0.00041	-0.00035
	(A0 * !B0 * C0 * Y)	-0.00008	-0.00007	-0.00007
	(A0 * !B0 * C0 * Y)	0.00001	0.00002	0.00002
	(A0 * !B0 * C0 * Y)	0.00062	0.00063	0.00063
	(A0 * !B0 * !C0 * Y)	-0.00045	-0.00041	-0.00035
	(A0 * !B0 * !C0 * Y)	-0.00008	-0.00007	-0.00007
	(A0 * !B0 * !C0 * Y)	0.00001	0.00002	0.00002
	(A0 * !B0 * !C0 * Y)	0.00062	0.00063	0.00063
	(!A0 * B0 * !C0 * Y)	-0.00058	-0.00057	-0.00057
	(!A0 * B0 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * B0 * !C0 * Y)	0.00005	0.00006	0.00006
	(!A0 * B0 * !C0 * Y)	0.00048	0.00048	0.00049
	(!A0 * !B0 * C0 * Y)	-0.00057	-0.00057	-0.00057
	(!A0 * !B0 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !B0 * C0 * Y)	0.00005	0.00005	0.00006
	(!A0 * !B0 * C0 * Y)	0.00049	0.00050	0.00050
	(!A0 * !B0 * !C0 * Y)	-0.00057	-0.00057	-0.00057
	(!A0 * !B0 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !B0 * !C0 * Y)	0.00005	0.00005	0.00006
	(!A0 * !B0 * !C0 * Y)	0.00049	0.00049	0.00050

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X4H7H	(A0 * B0 * C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * C0 * !Y)	0.00011	0.00011	0.00011
	(A0 * B0 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * B0 * C0 * !Y)	-0.00088	-0.00088	-0.00087
	(A0 * B0 * !C0 * Y)	0.00045	0.00045	0.00045
	(A0 * B0 * !C0 * Y)	0.00007	0.00007	0.00008
	(A0 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * Y)	-0.00063	-0.00062	-0.00062
	(A0 * !B0 * C0 * Y)	0.00045	0.00045	0.00045
	(A0 * !B0 * C0 * Y)	0.00007	0.00007	0.00008
	(A0 * !B0 * C0 * Y)	-0.00002	-0.00001	-0.00001
	(A0 * !B0 * C0 * Y)	-0.00063	-0.00062	-0.00061
	(A0 * !B0 * !C0 * Y)	0.00045	0.00045	0.00045
	(A0 * !B0 * !C0 * Y)	0.00007	0.00007	0.00008
	(A0 * !B0 * !C0 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * !B0 * !C0 * Y)	-0.00063	-0.00062	-0.00062
	(!A0 * B0 * !C0 * Y)	0.00057	0.00057	0.00058
	(!A0 * B0 * !C0 * Y)	0.00003	0.00003	0.00004
	(!A0 * B0 * !C0 * Y)	-0.00006	-0.00006	-0.00005
	(!A0 * B0 * !C0 * Y)	-0.00049	-0.00044	-0.00038
	(!A0 * !B0 * C0 * Y)	0.00057	0.00057	0.00057
	(!A0 * !B0 * C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !B0 * C0 * Y)	-0.00006	-0.00005	-0.00005
	(!A0 * !B0 * C0 * Y)	-0.00050	-0.00046	-0.00041
	(!A0 * !B0 * !C0 * Y)	0.00057	0.00057	0.00057
	(!A0 * !B0 * !C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !B0 * !C0 * Y)	-0.00006	-0.00005	-0.00005
	(!A0 * !B0 * !C0 * Y)	-0.00049	-0.00046	-0.00040

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X4H7H	(A1 * !C0 * Y)	-0.00052	-0.00052	-0.00051
	(A1 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * !C0 * Y)	0.00004	0.00004	0.00004
	(A1 * !C0 * Y)	0.00056	0.00056	0.00056
	(A0 * !A1 * !C0 * Y)	-0.00052	-0.00052	-0.00051
	(A0 * !A1 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * !C0 * Y)	0.00004	0.00004	0.00004
	(A0 * !A1 * !C0 * Y)	0.00055	0.00056	0.00056
	(!A0 * !A1 * C0 * Y)	-0.00053	-0.00053	-0.00052
	(!A0 * !A1 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * C0 * Y)	0.00013	0.00014	0.00014
	(!A0 * !A1 * C0 * Y)	0.00014	0.00014	0.00014
	(!A0 * !A1 * !C0 * Y)	-0.00054	-0.00053	-0.00053
	(!A0 * !A1 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !C0 * Y)	0.00016	0.00016	0.00016
	(!A0 * !A1 * !C0 * Y)	0.00014	0.00014	0.00015

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X4H7H	(A1 * !C0 * Y)	0.00052	0.00053	0.00054
	(A1 * !C0 * Y)	0.00003	0.00003	0.00003
	(A1 * !C0 * Y)	-0.00004	-0.00004	-0.00004
	(A1 * !C0 * Y)	-0.00056	-0.00053	-0.00047
	(A0 * !A1 * !C0 * Y)	0.00052	0.00053	0.00055
	(A0 * !A1 * !C0 * Y)	0.00003	0.00003	0.00003
	(A0 * !A1 * !C0 * Y)	-0.00004	-0.00004	-0.00004
	(A0 * !A1 * !C0 * Y)	-0.00056	-0.00052	-0.00046
	(!A0 * !A1 * C0 * Y)	0.00053	0.00053	0.00054
	(!A0 * !A1 * C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * C0 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A1 * C0 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !A1 * !C0 * Y)	0.00054	0.00054	0.00055
	(!A0 * !A1 * !C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !C0 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !A1 * !C0 * Y)	-0.00015	-0.00014	-0.00014

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X4H7H	(A1 * !B0 * Y)	-0.00075	-0.00074	-0.00073
	(A1 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * Y)	0.00008	0.00008	0.00008
	(A1 * !B0 * Y)	0.00015	0.00015	0.00015
	(!A1 * !B0 * Y)	-0.00075	-0.00074	-0.00073
	(!A1 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * Y)	0.00008	0.00008	0.00008
	(!A1 * !B0 * Y)	0.00014	0.00015	0.00015
	(!A0 * !A1 * B0 * Y)	-0.00075	-0.00074	-0.00074
	(!A0 * !A1 * B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B0 * Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * B0 * Y)	0.00013	0.00013	0.00013

Passive power(pJ) for C0 falling (conditional):

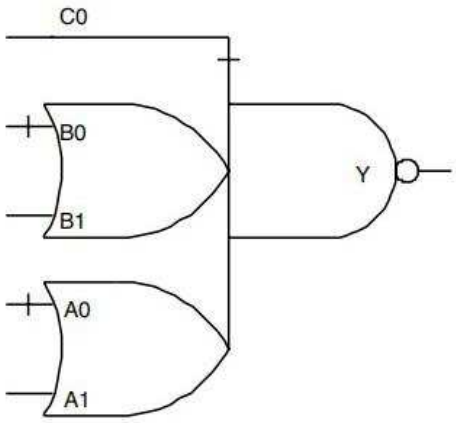
Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X4H7H	(A1 * !B0 * Y)	0.00074	0.00075	0.00075
	(A1 * !B0 * Y)	0.00003	0.00003	0.00003
	(A1 * !B0 * Y)	-0.00008	-0.00008	-0.00008
	(A1 * !B0 * Y)	-0.00015	-0.00015	-0.00015
	(!A1 * !B0 * Y)	0.00074	0.00075	0.00075
	(!A1 * !B0 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * Y)	-0.00008	-0.00008	-0.00008
	(!A1 * !B0 * Y)	-0.00015	-0.00015	-0.00014
	(!A0 * !A1 * B0 * Y)	0.00074	0.00075	0.00075
	(!A0 * !A1 * B0 * Y)	0.00003	0.00003	0.00004
	(!A0 * !A1 * B0 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * B0 * Y)	-0.00013	-0.00013	-0.00013

OAI211X6H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI221 cell provides the logical inverted AND of two OR groups and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	Y
0	0	x	x	1
x	1	0	x	1
x	1	1	0	1
x	1	1	1	0
1	x	0	x	1
1	x	1	0	1
1	x	1	1	0

Footprint

Cell Name	Area
OAI211X6H7H	5.32000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	**A1**	**B0**	**C0**	**Y**
OAI211X6H7H	0.00318	0.00333	0.00344	0.00359	0.07953

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
OAI211X6H7H	0.00000	0.05892	0.09728

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI211X6H7H	A0->Y (FR)	0.05247	0.23611	0.75697
	A1->Y (FR)	0.04702	0.22549	0.74488
	B0->Y (FR)	0.02223	0.14206	0.54550
	C0->Y (FR)	0.01914	0.13621	0.54082

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI211X6H7H	A0->Y (RF)	0.05298	0.22619	0.71122
	A1->Y (RF)	0.04556	0.21638	0.70082
	B0->Y (RF)	0.04838	0.22373	0.73416
	C0->Y (RF)	0.04129	0.21036	0.71306

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI211X6H7H	A0	0.00621	0.00630	0.00638
	A0	-0.00075	-0.00074	-0.00071
	A0	0.00061	0.00061	0.00062
	A0	-0.00032	-0.00024	-0.00017
	A1	0.00502	0.00522	0.00535
	A1	-0.00049	-0.00048	-0.00047
	A1	0.00060	0.00061	0.00062
	A1	-0.00035	-0.00024	-0.00015
	B0	0.00511	0.00523	0.00537
	B0	-0.00048	-0.00048	-0.00047
	B0	0.00033	0.00033	0.00036
	B0	-0.00043	-0.00028	-0.00016
	C0	0.00436	0.00453	0.00470
	C0	-0.00048	-0.00048	-0.00046
	C0	0.00011	0.00012	0.00013
	C0	-0.00048	-0.00027	-0.00011

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI211X6H7H	A0	-0.00052	-0.00041	-0.00034
	A0	0.00071	0.00074	0.00075
	A0	-0.00062	-0.00061	-0.00061
	A0	0.00625	0.00636	0.00643
	A1	-0.00059	-0.00041	-0.00031
	A1	0.00047	0.00049	0.00050
	A1	-0.00062	-0.00061	-0.00060
	A1	0.00535	0.00549	0.00560
	B0	-0.00047	-0.00034	-0.00024
	B0	0.00074	0.00074	0.00075
	B0	-0.00033	-0.00033	-0.00032
	B0	0.00499	0.00511	0.00521
	C0	-0.00054	-0.00038	-0.00024
	C0	0.00074	0.00074	0.00075
	C0	-0.00012	-0.00012	-0.00009
	C0	0.00392	0.00419	0.00435

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X6H7H	(A1 * B0 * C0 * !Y)	-0.00057	-0.00050	-0.00040
	(A1 * B0 * C0 * !Y)	-0.00012	-0.00011	-0.00011
	(A1 * B0 * C0 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * C0 * !Y)	0.00101	0.00103	0.00106
	(A1 * B0 * !C0 * Y)	-0.00056	-0.00051	-0.00042
	(A1 * B0 * !C0 * Y)	-0.00012	-0.00012	-0.00011
	(A1 * B0 * !C0 * Y)	0.00002	0.00002	0.00003
	(A1 * B0 * !C0 * Y)	0.00101	0.00101	0.00102
	(A1 * !B0 * Y)	-0.00056	-0.00051	-0.00042
	(A1 * !B0 * Y)	-0.00012	-0.00012	-0.00011
	(A1 * !B0 * Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * Y)	0.00100	0.00101	0.00101
	(!A1 * B0 * !C0 * Y)	-0.00075	-0.00075	-0.00075
	(!A1 * B0 * !C0 * Y)	-0.00005	-0.00004	-0.00004
	(!A1 * B0 * !C0 * Y)	0.00008	0.00008	0.00009
	(!A1 * B0 * !C0 * Y)	0.00080	0.00081	0.00081
	(!A1 * !B0 * C0 * Y)	-0.00075	-0.00075	-0.00074
	(!A1 * !B0 * C0 * Y)	-0.00005	-0.00004	-0.00004
	(!A1 * !B0 * C0 * Y)	0.00007	0.00008	0.00008
	(!A1 * !B0 * C0 * Y)	0.00082	0.00083	0.00083
	(!A1 * !B0 * !C0 * Y)	-0.00075	-0.00075	-0.00074
	(!A1 * !B0 * !C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * !B0 * !C0 * Y)	0.00008	0.00008	0.00008
	(!A1 * !B0 * !C0 * Y)	0.00081	0.00082	0.00083

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X6H7H	(A1 * B0 * C0 * !Y)	0.00056	0.00056	0.00057
	(A1 * B0 * C0 * !Y)	0.00011	0.00011	0.00012
	(A1 * B0 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * C0 * !Y)	-0.00102	-0.00101	-0.00101
	(A1 * B0 * !C0 * Y)	0.00055	0.00056	0.00056
	(A1 * B0 * !C0 * Y)	0.00012	0.00012	0.00012
	(A1 * B0 * !C0 * Y)	-0.00003	-0.00002	-0.00002
	(A1 * B0 * !C0 * Y)	-0.00101	-0.00100	-0.00100
	(A1 * !B0 * Y)	0.00055	0.00056	0.00056
	(A1 * !B0 * Y)	0.00012	0.00012	0.00012
	(A1 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * Y)	-0.00101	-0.00100	-0.00100
	(!A1 * B0 * !C0 * Y)	0.00075	0.00075	0.00076
	(!A1 * B0 * !C0 * Y)	0.00004	0.00005	0.00005
	(!A1 * B0 * !C0 * Y)	-0.00009	-0.00008	-0.00008
	(!A1 * B0 * !C0 * Y)	-0.00081	-0.00075	-0.00066
	(!A1 * !B0 * C0 * Y)	0.00074	0.00075	0.00075
	(!A1 * !B0 * C0 * Y)	0.00004	0.00004	0.00005
	(!A1 * !B0 * C0 * Y)	-0.00008	-0.00008	-0.00007
	(!A1 * !B0 * C0 * Y)	-0.00083	-0.00077	-0.00070
	(!A1 * !B0 * !C0 * Y)	0.00074	0.00075	0.00075
	(!A1 * !B0 * !C0 * Y)	0.00004	0.00004	0.00005
	(!A1 * !B0 * !C0 * Y)	-0.00008	-0.00008	-0.00008
	(!A1 * !B0 * !C0 * Y)	-0.00083	-0.00077	-0.00068

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X6H7H	(A0 * B0 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * C0 * !Y)	-0.00016	-0.00016	-0.00016
	(A0 * B0 * C0 * !Y)	0.00002	0.00002	0.00003
	(A0 * B0 * C0 * !Y)	0.00123	0.00124	0.00124
	(A0 * B0 * !C0 * Y)	-0.00065	-0.00059	-0.00049
	(A0 * B0 * !C0 * Y)	-0.00012	-0.00011	-0.00010
	(A0 * B0 * !C0 * Y)	0.00002	0.00002	0.00003
	(A0 * B0 * !C0 * Y)	0.00089	0.00089	0.00090
	(A0 * !B0 * C0 * Y)	-0.00065	-0.00059	-0.00049
	(A0 * !B0 * C0 * Y)	-0.00012	-0.00011	-0.00011
	(A0 * !B0 * C0 * Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * C0 * Y)	0.00089	0.00089	0.00090
	(A0 * !B0 * !C0 * Y)	-0.00065	-0.00059	-0.00050
	(A0 * !B0 * !C0 * Y)	-0.00012	-0.00011	-0.00010
	(A0 * !B0 * !C0 * Y)	0.00002	0.00002	0.00003
	(A0 * !B0 * !C0 * Y)	0.00089	0.00089	0.00090
	(!A0 * B0 * !C0 * Y)	-0.00083	-0.00083	-0.00082
	(!A0 * B0 * !C0 * Y)	-0.00005	-0.00004	-0.00001
	(!A0 * B0 * !C0 * Y)	0.00008	0.00008	0.00008
	(!A0 * B0 * !C0 * Y)	0.00069	0.00069	0.00070
	(!A0 * !B0 * C0 * Y)	-0.00083	-0.00082	-0.00082
	(!A0 * !B0 * C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !B0 * C0 * Y)	0.00007	0.00008	0.00008
	(!A0 * !B0 * C0 * Y)	0.00071	0.00071	0.00072
	(!A0 * !B0 * !C0 * Y)	-0.00083	-0.00081	-0.00077
	(!A0 * !B0 * !C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !B0 * !C0 * Y)	0.00008	0.00008	0.00008
	(!A0 * !B0 * !C0 * Y)	0.00070	0.00071	0.00071

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X6H7H	(A0 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * !Y)	0.00017	0.00017	0.00017
	(A0 * B0 * C0 * !Y)	-0.00003	-0.00002	-0.00002
	(A0 * B0 * C0 * !Y)	-0.00124	-0.00123	-0.00123
	(A0 * B0 * !C0 * Y)	0.00064	0.00064	0.00065
	(A0 * B0 * !C0 * Y)	0.00010	0.00011	0.00012
	(A0 * B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !C0 * Y)	-0.00089	-0.00089	-0.00087
	(A0 * !B0 * C0 * Y)	0.00064	0.00064	0.00065
	(A0 * !B0 * C0 * Y)	0.00011	0.00011	0.00012
	(A0 * !B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * C0 * Y)	-0.00089	-0.00089	-0.00088
	(A0 * !B0 * !C0 * Y)	0.00064	0.00065	0.00065
	(A0 * !B0 * !C0 * Y)	0.00011	0.00011	0.00012
	(A0 * !B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * !C0 * Y)	-0.00089	-0.00089	-0.00088
	(!A0 * B0 * !C0 * Y)	0.00082	0.00083	0.00083
	(!A0 * B0 * !C0 * Y)	0.00004	0.00005	0.00006
	(!A0 * B0 * !C0 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * B0 * !C0 * Y)	-0.00069	-0.00063	-0.00055
	(!A0 * !B0 * C0 * Y)	0.00082	0.00082	0.00083
	(!A0 * !B0 * C0 * Y)	0.00004	0.00005	0.00006
	(!A0 * !B0 * C0 * Y)	-0.00008	-0.00008	-0.00007
	(!A0 * !B0 * C0 * Y)	-0.00071	-0.00066	-0.00058
	(!A0 * !B0 * !C0 * Y)	0.00082	0.00082	0.00083
	(!A0 * !B0 * !C0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !B0 * !C0 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !B0 * !C0 * Y)	-0.00071	-0.00066	-0.00057

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X6H7H	(A1 * !C0 * Y)	-0.00077	-0.00077	-0.00076
	(A1 * !C0 * Y)	-0.00004	-0.00004	-0.00004
	(A1 * !C0 * Y)	0.00006	0.00006	0.00007
	(A1 * !C0 * Y)	0.00082	0.00082	0.00083
	(A0 * !A1 * !C0 * Y)	-0.00077	-0.00077	-0.00076
	(A0 * !A1 * !C0 * Y)	-0.00005	-0.00004	-0.00004
	(A0 * !A1 * !C0 * Y)	0.00006	0.00007	0.00007
	(A0 * !A1 * !C0 * Y)	0.00082	0.00082	0.00083
	(!A0 * !A1 * C0 * Y)	-0.00078	-0.00078	-0.00077
	(!A0 * !A1 * C0 * Y)	-0.00005	-0.00004	-0.00004
	(!A0 * !A1 * C0 * Y)	0.00021	0.00021	0.00021
	(!A0 * !A1 * C0 * Y)	0.00019	0.00019	0.00020
	(!A0 * !A1 * !C0 * Y)	-0.00078	-0.00078	-0.00078
	(!A0 * !A1 * !C0 * Y)	-0.00005	-0.00004	-0.00004
	(!A0 * !A1 * !C0 * Y)	0.00025	0.00025	0.00025
	(!A0 * !A1 * !C0 * Y)	0.00020	0.00020	0.00020

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X6H7H	(A1 * !C0 * Y)	0.00077	0.00079	0.00081
	(A1 * !C0 * Y)	0.00004	0.00004	0.00005
	(A1 * !C0 * Y)	-0.00007	-0.00006	-0.00006
	(A1 * !C0 * Y)	-0.00082	-0.00077	-0.00069
	(A0 * !A1 * !C0 * Y)	0.00078	0.00079	0.00082
	(A0 * !A1 * !C0 * Y)	0.00004	0.00004	0.00005
	(A0 * !A1 * !C0 * Y)	-0.00007	-0.00007	-0.00006
	(A0 * !A1 * !C0 * Y)	-0.00082	-0.00077	-0.00068
	(!A0 * !A1 * C0 * Y)	0.00078	0.00078	0.00079
	(!A0 * !A1 * C0 * Y)	0.00004	0.00005	0.00005
	(!A0 * !A1 * C0 * Y)	-0.00021	-0.00021	-0.00020
	(!A0 * !A1 * C0 * Y)	-0.00020	-0.00019	-0.00019
	(!A0 * !A1 * !C0 * Y)	0.00079	0.00080	0.00080
	(!A0 * !A1 * !C0 * Y)	0.00004	0.00004	0.00005
	(!A0 * !A1 * !C0 * Y)	-0.00025	-0.00025	-0.00025
	(!A0 * !A1 * !C0 * Y)	-0.00020	-0.00020	-0.00020

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X6H7H	(A1 * !B0 * Y)	-0.00113	-0.00112	-0.00111
	(A1 * !B0 * Y)	-0.00004	-0.00004	-0.00004
	(A1 * !B0 * Y)	0.00013	0.00013	0.00013
	(A1 * !B0 * Y)	0.00019	0.00019	0.00019
	(!A1 * !B0 * Y)	-0.00113	-0.00112	-0.00111
	(!A1 * !B0 * Y)	-0.00005	-0.00004	-0.00004
	(!A1 * !B0 * Y)	0.00013	0.00013	0.00013
	(!A1 * !B0 * Y)	0.00019	0.00019	0.00019
	(!A0 * !A1 * B0 * Y)	-0.00112	-0.00112	-0.00111
	(!A0 * !A1 * B0 * Y)	-0.00005	-0.00004	-0.00004
	(!A0 * !A1 * B0 * Y)	0.00013	0.00013	0.00014
	(!A0 * !A1 * B0 * Y)	0.00018	0.00018	0.00019

Passive power(pJ) for C0 falling (conditional):

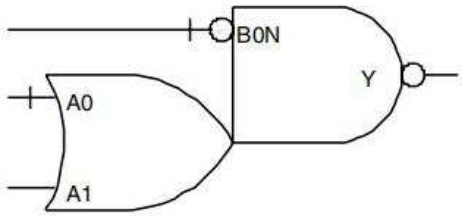
Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X6H7H	(A1 * !B0 * Y)	0.00111	0.00113	0.00113
	(A1 * !B0 * Y)	0.00004	0.00005	0.00005
	(A1 * !B0 * Y)	-0.00012	-0.00012	-0.00012
	(A1 * !B0 * Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B0 * Y)	0.00111	0.00112	0.00113
	(!A1 * !B0 * Y)	0.00004	0.00005	0.00005
	(!A1 * !B0 * Y)	-0.00012	-0.00012	-0.00012
	(!A1 * !B0 * Y)	-0.00019	-0.00019	-0.00019
	(!A0 * !A1 * B0 * Y)	0.00111	0.00112	0.00113
	(!A0 * !A1 * B0 * Y)	0.00004	0.00005	0.00005
	(!A0 * !A1 * B0 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * !A1 * B0 * Y)	-0.00018	-0.00018	-0.00018

OAI21BX0P5H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI21B cell provides the logical inverted AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0N	Y
0	0	x	1
x	1	0	0
x	1	1	1
1	x	0	0
1	x	1	1

Footprint

Cell Name	Area
OAI21BX0P5H7H	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0N	Y
OAI21BX0P5H7H	0.00078	0.00091	0.00097	0.01497

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI21BX0P5H7H	0.00000	0.01453	0.01844

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI21BX0P5H7H	A0->Y (FR)	0.06442	0.24079	0.74300
	A1->Y (FR)	0.06304	0.23547	0.73677
	B0N->Y (RR)	0.05163	0.15465	0.39162

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI21BX0P5H7H	A0->Y (RF)	0.04392	0.17589	0.56915
	A1->Y (RF)	0.04256	0.17248	0.56490
	B0N->Y (FF)	0.07201	0.19600	0.48916

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI21BX0P5H7H	A0	0.00081	0.00084	0.00087
	A0	-0.00010	-0.00010	-0.00009
	A0	0.00007	0.00007	0.00008
	A0	-0.00009	-0.00007	-0.00005
	A1	0.00072	0.00076	0.00080
	A1	-0.00005	-0.00005	-0.00005
	A1	0.00007	0.00007	0.00007
	A1	-0.00006	-0.00003	-0.00000
	B0N	0.00070	0.00077	0.00083
	B0N	-0.00003	-0.00003	-0.00003
	B0N	-0.00000	0.00000	0.00000
	B0N	0.00114	0.00120	0.00126

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI21BX0P5H7H	A0	0.00018	0.00019	0.00020
	A0	0.00009	0.00010	0.00010
	A0	-0.00008	-0.00007	-0.00007
	A0	0.00110	0.00113	0.00114
	A1	0.00013	0.00016	0.00019
	A1	0.00005	0.00005	0.00005
	A1	-0.00007	-0.00007	-0.00007
	A1	0.00096	0.00100	0.00102
	B0N	0.00111	0.00116	0.00121
	B0N	0.00007	0.00008	0.00008
	B0N	-0.00000	0.00000	0.00000
	B0N	0.00065	0.00070	0.00076

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX0P5H7H	(A1 * B0N * Y)	-0.00009	-0.00008	-0.00007
	(A1 * B0N * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0N * Y)	0.00000	0.00000	0.00000
	(A1 * B0N * Y)	0.00030	0.00030	0.00031
	(A1 * !B0N * !Y)	-0.00009	-0.00008	-0.00007
	(A1 * !B0N * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * !B0N * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0N * !Y)	0.00030	0.00031	0.00031
	(!A1 * B0N * Y)	-0.00011	-0.00011	-0.00011
	(!A1 * B0N * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0N * Y)	0.00001	0.00001	0.00002
	(!A1 * B0N * Y)	0.00027	0.00027	0.00027

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX0P5H7H	(A1 * B0N * Y)	0.00009	0.00009	0.00009
	(A1 * B0N * Y)	0.00002	0.00002	0.00002
	(A1 * B0N * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0N * Y)	-0.00030	-0.00030	-0.00030
	(A1 * !B0N * !Y)	0.00009	0.00009	0.00009
	(A1 * !B0N * !Y)	0.00001	0.00002	0.00002
	(A1 * !B0N * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0N * !Y)	-0.00031	-0.00030	-0.00030
	(!A1 * B0N * Y)	0.00011	0.00011	0.00012
	(!A1 * B0N * Y)	0.00001	0.00001	0.00001
	(!A1 * B0N * Y)	-0.00002	-0.00001	-0.00001
	(!A1 * B0N * Y)	-0.00027	-0.00026	-0.00024

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX0P5H7H	(A0 * B0N * Y)	-0.00015	-0.00014	-0.00013
	(A0 * B0N * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0N * Y)	0.00000	0.00001	0.00001
	(A0 * B0N * Y)	0.00026	0.00026	0.00026
	(A0 * !B0N * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * !B0N * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * !B0N * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0N * !Y)	0.00033	0.00033	0.00034
	(!A0 * B0N * Y)	-0.00017	-0.00017	-0.00017
	(!A0 * B0N * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0N * Y)	0.00001	0.00001	0.00001
	(!A0 * B0N * Y)	0.00023	0.00023	0.00023

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX0P5H7H	(A0 * B0N * Y)	0.00015	0.00015	0.00015
	(A0 * B0N * Y)	0.00002	0.00002	0.00002
	(A0 * B0N * Y)	-0.00001	-0.00000	0.00000
	(A0 * B0N * Y)	-0.00026	-0.00026	-0.00026
	(A0 * !B0N * !Y)	0.00003	0.00003	0.00003
	(A0 * !B0N * !Y)	0.00003	0.00003	0.00004
	(A0 * !B0N * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0N * !Y)	-0.00033	-0.00033	-0.00033
	(!A0 * B0N * Y)	0.00017	0.00017	0.00018
	(!A0 * B0N * Y)	0.00001	0.00001	0.00001
	(!A0 * B0N * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0N * Y)	-0.00023	-0.00022	-0.00021

Passive power(pJ) for B0N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX0P5H7H	(!A0 * !A1 * Y)	0.00010	0.00012	0.00015
	(!A0 * !A1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * Y)	0.00093	0.00095	0.00097

Passive power(pJ) for B0N falling (conditional):

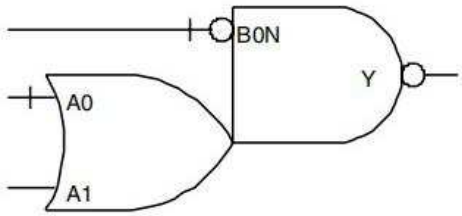
Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX0P5H7H	(!A0 * !A1 * Y)	0.00076	0.00078	0.00081
	(!A0 * !A1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * Y)	-0.00007	-0.00005	-0.00001

OAI21BX0P7H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI21B cell provides the logical inverted AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0N	Y
0	0	x	1
x	1	0	0
x	1	1	1
1	x	0	0
1	x	1	1

Footprint

Cell Name	Area
OAI21BX0P7H7H	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0N	Y
OAI21BX0P7H7H	0.00082	0.00096	0.00098	0.01722

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI21BX0P7H7H	0.00000	0.01566	0.01753

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI21BX0P7H7H	A0->Y (FR)	0.05968	0.23794	0.74811
	A1->Y (FR)	0.05817	0.23242	0.74025
	B0N->Y (RR)	0.05032	0.15488	0.39558

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI21BX0P7H7H	A0->Y (RF)	0.04195	0.17698	0.58027
	A1->Y (RF)	0.04044	0.17336	0.57830
	B0N->Y (FF)	0.07089	0.19776	0.49834

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI21BX0P7H7H	A0	0.00089	0.00091	0.00093
	A0	-0.00011	-0.00011	-0.00011
	A0	0.00008	0.00009	0.00009
	A0	-0.00010	-0.00008	-0.00006
	A1	0.00077	0.00081	0.00085
	A1	-0.00006	-0.00006	-0.00005
	A1	0.00008	0.00009	0.00009
	A1	-0.00007	-0.00004	-0.00001
	B0N	0.00077	0.00084	0.00090
	B0N	-0.00004	-0.00004	-0.00004
	B0N	0.00000	0.00000	0.00000
	B0N	0.00117	0.00123	0.00129

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI21BX0P7H7H	A0	0.00019	0.00020	0.00021
	A0	0.00011	0.00011	0.00011
	A0	-0.00009	-0.00009	-0.00008
	A0	0.00115	0.00121	0.00122
	A1	0.00013	0.00017	0.00020
	A1	0.00005	0.00006	0.00006
	A1	-0.00009	-0.00009	-0.00008
	A1	0.00103	0.00107	0.00110
	B0N	0.00113	0.00119	0.00124
	B0N	0.00009	0.00009	0.00009
	B0N	-0.00000	-0.00000	-0.00000
	B0N	0.00071	0.00076	0.00082

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX0P7H7H	(A1 * B0N * Y)	-0.00010	-0.00009	-0.00008
	(A1 * B0N * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0N * Y)	0.00000	0.00000	0.00000
	(A1 * B0N * Y)	0.00031	0.00031	0.00031
	(A1 * !B0N * !Y)	-0.00010	-0.00009	-0.00008
	(A1 * !B0N * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0N * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0N * !Y)	0.00031	0.00031	0.00032
	(!A1 * B0N * Y)	-0.00012	-0.00012	-0.00012
	(!A1 * B0N * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0N * Y)	0.00001	0.00002	0.00002
	(!A1 * B0N * Y)	0.00027	0.00027	0.00028

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX0P7H7H	(A1 * B0N * Y)	0.00010	0.00010	0.00010
	(A1 * B0N * Y)	0.00002	0.00002	0.00002
	(A1 * B0N * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0N * Y)	-0.00031	-0.00031	-0.00031
	(A1 * !B0N * !Y)	0.00010	0.00010	0.00010
	(A1 * !B0N * !Y)	0.00002	0.00002	0.00002
	(A1 * !B0N * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0N * !Y)	-0.00031	-0.00031	-0.00031
	(!A1 * B0N * Y)	0.00012	0.00013	0.00013
	(!A1 * B0N * Y)	0.00001	0.00001	0.00001
	(!A1 * B0N * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * B0N * Y)	-0.00027	-0.00026	-0.00024

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX0P7H7H	(A0 * B0N * Y)	-0.00017	-0.00016	-0.00014
	(A0 * B0N * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0N * Y)	0.00000	0.00001	0.00001
	(A0 * B0N * Y)	0.00027	0.00027	0.00027
	(A0 * !B0N * !Y)	-0.00003	-0.00003	-0.00002
	(A0 * !B0N * !Y)	-0.00004	-0.00003	-0.00003
	(A0 * !B0N * !Y)	0.00000	0.00000	0.00001
	(A0 * !B0N * !Y)	0.00035	0.00035	0.00035
	(!A0 * B0N * Y)	-0.00019	-0.00019	-0.00019
	(!A0 * B0N * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0N * Y)	0.00001	0.00002	0.00002
	(!A0 * B0N * Y)	0.00024	0.00024	0.00024

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX0P7H7H	(A0 * B0N * Y)	0.00016	0.00016	0.00017
	(A0 * B0N * Y)	0.00002	0.00002	0.00002
	(A0 * B0N * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0N * Y)	-0.00027	-0.00027	-0.00027
	(A0 * !B0N * !Y)	0.00002	0.00003	0.00003
	(A0 * !B0N * !Y)	0.00003	0.00004	0.00004
	(A0 * !B0N * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0N * !Y)	-0.00035	-0.00035	-0.00035
	(!A0 * B0N * Y)	0.00019	0.00019	0.00019
	(!A0 * B0N * Y)	0.00001	0.00001	0.00001
	(!A0 * B0N * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * B0N * Y)	-0.00024	-0.00023	-0.00021

Passive power(pJ) for B0N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX0P7H7H	(!A0 * !A1 * Y)	0.00012	0.00015	0.00017
	(!A0 * !A1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * Y)	0.00095	0.00098	0.00100

Passive power(pJ) for B0N falling (conditional):

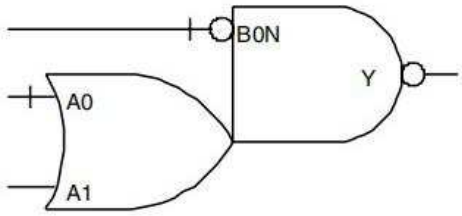
Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX0P7H7H	(!A0 * !A1 * Y)	0.00076	0.00078	0.00081
	(!A0 * !A1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * Y)	-0.00007	-0.00005	-0.00002

OAI21BX1H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI21B cell provides the logical inverted AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0N	Y
0	0	x	1
x	1	0	0
x	1	1	1
1	x	0	0
1	x	1	1

Footprint

Cell Name	Area
OAI21BX1H7H	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0N	Y
OAI21BX1H7H	0.00089	0.00104	0.00097	0.02067

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI21BX1H7H	0.00000	0.01828	0.02076

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI21BX1H7H	A0->Y (FR)	0.05381	0.23343	0.75003
	A1->Y (FR)	0.05188	0.22750	0.74174
	B0N->Y (RR)	0.04877	0.15490	0.39938

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI21BX1H7H	A0->Y (RF)	0.04004	0.17952	0.59797
	A1->Y (RF)	0.03816	0.17538	0.59404
	B0N->Y (FF)	0.07023	0.20180	0.51434

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI21BX1H7H	A0	0.00099	0.00101	0.00104
	A0	-0.00014	-0.00014	-0.00013
	A0	0.00010	0.00010	0.00010
	A0	-0.00012	-0.00009	-0.00007
	A1	0.00084	0.00088	0.00092
	A1	-0.00007	-0.00007	-0.00007
	A1	0.00010	0.00010	0.00010
	A1	-0.00010	-0.00006	-0.00002
	B0N	0.00086	0.00094	0.00100
	B0N	-0.00005	-0.00005	-0.00005
	B0N	0.00001	0.00001	0.00001
	B0N	0.00120	0.00127	0.00134

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI21BX1H7H	A0	0.00020	0.00021	0.00022
	A0	0.00013	0.00014	0.00014
	A0	-0.00010	-0.00010	-0.00010
	A0	0.00129	0.00134	0.00135
	A1	0.00014	0.00018	0.00021
	A1	0.00007	0.00007	0.00007
	A1	-0.00010	-0.00010	-0.00010
	A1	0.00113	0.00117	0.00121
	B0N	0.00117	0.00123	0.00129
	B0N	0.00011	0.00012	0.00012
	B0N	-0.00001	-0.00001	-0.00000
	B0N	0.00080	0.00086	0.00092

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX1H7H	(A1 * B0N * Y)	-0.00012	-0.00011	-0.00009
	(A1 * B0N * Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0N * Y)	0.00001	0.00001	0.00001
	(A1 * B0N * Y)	0.00032	0.00032	0.00032
	(A1 * !B0N * !Y)	-0.00012	-0.00011	-0.00009
	(A1 * !B0N * !Y)	-0.00003	-0.00003	-0.00002
	(A1 * !B0N * !Y)	0.00000	0.00001	0.00001
	(A1 * !B0N * !Y)	0.00032	0.00032	0.00033
	(!A1 * B0N * Y)	-0.00015	-0.00015	-0.00015
	(!A1 * B0N * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0N * Y)	0.00001	0.00002	0.00002
	(!A1 * B0N * Y)	0.00028	0.00028	0.00028

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX1H7H	(A1 * B0N * Y)	0.00012	0.00012	0.00012
	(A1 * B0N * Y)	0.00003	0.00003	0.00003
	(A1 * B0N * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0N * Y)	-0.00032	-0.00032	-0.00032
	(A1 * !B0N * !Y)	0.00011	0.00012	0.00012
	(A1 * !B0N * !Y)	0.00002	0.00003	0.00003
	(A1 * !B0N * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0N * !Y)	-0.00032	-0.00032	-0.00032
	(!A1 * B0N * Y)	0.00015	0.00015	0.00015
	(!A1 * B0N * Y)	0.00001	0.00001	0.00001
	(!A1 * B0N * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * B0N * Y)	-0.00028	-0.00027	-0.00025

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX1H7H	(A0 * B0N * Y)	-0.00019	-0.00017	-0.00016
	(A0 * B0N * Y)	-0.00003	-0.00003	-0.00002
	(A0 * B0N * Y)	0.00000	0.00001	0.00001
	(A0 * B0N * Y)	0.00028	0.00028	0.00029
	(A0 * !B0N * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * !B0N * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * !B0N * !Y)	0.00000	0.00001	0.00001
	(A0 * !B0N * !Y)	0.00037	0.00038	0.00038
	(!A0 * B0N * Y)	-0.00022	-0.00022	-0.00022
	(!A0 * B0N * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0N * Y)	0.00001	0.00002	0.00002
	(!A0 * B0N * Y)	0.00025	0.00025	0.00025

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX1H7H	(A0 * B0N * Y)	0.00018	0.00018	0.00019
	(A0 * B0N * Y)	0.00003	0.00003	0.00003
	(A0 * B0N * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0N * Y)	-0.00028	-0.00028	-0.00028
	(A0 * !B0N * !Y)	0.00003	0.00003	0.00003
	(A0 * !B0N * !Y)	0.00004	0.00004	0.00004
	(A0 * !B0N * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0N * !Y)	-0.00038	-0.00038	-0.00037
	(!A0 * B0N * Y)	0.00022	0.00022	0.00022
	(!A0 * B0N * Y)	0.00001	0.00001	0.00001
	(!A0 * B0N * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * B0N * Y)	-0.00025	-0.00024	-0.00022

Passive power(pJ) for B0N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX1H7H	(!A0 * !A1 * Y)	0.00015	0.00018	0.00021
	(!A0 * !A1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * Y)	0.00099	0.00102	0.00104

Passive power(pJ) for B0N falling (conditional):

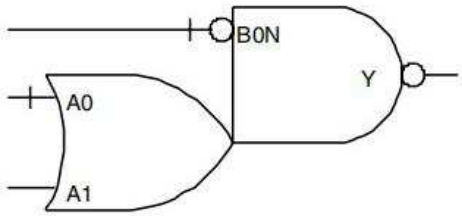
Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX1H7H	(!A0 * !A1 * Y)	0.00076	0.00079	0.00082
	(!A0 * !A1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * Y)	-0.00008	-0.00006	-0.00003

OAI21BX1P4H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI21B cell provides the logical inverted AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0N	Y
0	0	x	1
x	1	0	0
x	1	1	1
1	x	0	0
1	x	1	1

Footprint

Cell Name	Area
OAI21BX1P4H7H	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0N	Y
OAI21BX1P4H7H	0.00094	0.00112	0.00098	0.02357

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI21BX1P4H7H	0.00000	0.02177	0.02670

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI21BX1P4H7H	A0->Y (FR)	0.05075	0.23140	0.75044
	A1->Y (FR)	0.04868	0.22524	0.74227
	B0N->Y (RR)	0.04844	0.15590	0.40355

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI21BX1P4H7H	A0->Y (RF)	0.03867	0.17956	0.60422
	A1->Y (RF)	0.03656	0.17507	0.59896
	B0N->Y (FF)	0.07027	0.20397	0.52204

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI21BX1P4H7H	A0	0.00108	0.00111	0.00114
	A0	-0.00016	-0.00016	-0.00016
	A0	0.00012	0.00012	0.00012
	A0	-0.00013	-0.00010	-0.00008
	A1	0.00088	0.00095	0.00099
	A1	-0.00008	-0.00008	-0.00008
	A1	0.00012	0.00012	0.00012
	A1	-0.00011	-0.00007	-0.00003
	B0N	0.00096	0.00104	0.00111
	B0N	-0.00007	-0.00006	-0.00006
	B0N	0.00001	0.00001	0.00001
	B0N	0.00124	0.00132	0.00139

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI21BX1P4H7H	A0	0.00021	0.00022	0.00024
	A0	0.00016	0.00016	0.00016
	A0	-0.00012	-0.00012	-0.00012
	A0	0.00142	0.00145	0.00147
	A1	0.00015	0.00020	0.00023
	A1	0.00008	0.00009	0.00009
	A1	-0.00012	-0.00012	-0.00012
	A1	0.00123	0.00127	0.00131
	B0N	0.00121	0.00128	0.00134
	B0N	0.00014	0.00014	0.00015
	B0N	-0.00001	-0.00001	-0.00001
	B0N	0.00089	0.00095	0.00102

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX1P4H7H	(A1 * B0N * Y)	-0.00014	-0.00013	-0.00011
	(A1 * B0N * Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0N * Y)	0.00001	0.00001	0.00001
	(A1 * B0N * Y)	0.00032	0.00033	0.00033
	(A1 * !B0N * !Y)	-0.00014	-0.00012	-0.00010
	(A1 * !B0N * !Y)	-0.00004	-0.00003	-0.00003
	(A1 * !B0N * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0N * !Y)	0.00033	0.00033	0.00034
	(!A1 * B0N * Y)	-0.00017	-0.00017	-0.00017
	(!A1 * B0N * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0N * Y)	0.00001	0.00002	0.00002
	(!A1 * B0N * Y)	0.00029	0.00029	0.00029

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX1P4H7H	(A1 * B0N * Y)	0.00013	0.00014	0.00014
	(A1 * B0N * Y)	0.00003	0.00003	0.00003
	(A1 * B0N * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0N * Y)	-0.00033	-0.00033	-0.00032
	(A1 * !B0N * !Y)	0.00013	0.00014	0.00014
	(A1 * !B0N * !Y)	0.00003	0.00003	0.00004
	(A1 * !B0N * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0N * !Y)	-0.00033	-0.00033	-0.00033
	(!A1 * B0N * Y)	0.00017	0.00017	0.00017
	(!A1 * B0N * Y)	0.00001	0.00001	0.00001
	(!A1 * B0N * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * B0N * Y)	-0.00029	-0.00028	-0.00025

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX1P4H7H	(A0 * B0N * Y)	-0.00020	-0.00019	-0.00017
	(A0 * B0N * Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0N * Y)	0.00000	0.00001	0.00001
	(A0 * B0N * Y)	0.00030	0.00030	0.00030
	(A0 * !B0N * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * !B0N * !Y)	-0.00005	-0.00005	-0.00004
	(A0 * !B0N * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0N * !Y)	0.00040	0.00040	0.00040
	(!A0 * B0N * Y)	-0.00024	-0.00024	-0.00024
	(!A0 * B0N * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0N * Y)	0.00002	0.00002	0.00003
	(!A0 * B0N * Y)	0.00026	0.00026	0.00026

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX1P4H7H	(A0 * B0N * Y)	0.00020	0.00020	0.00020
	(A0 * B0N * Y)	0.00003	0.00003	0.00003
	(A0 * B0N * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0N * Y)	-0.00030	-0.00030	-0.00030
	(A0 * !B0N * !Y)	0.00003	0.00003	0.00003
	(A0 * !B0N * !Y)	0.00005	0.00005	0.00005
	(A0 * !B0N * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0N * !Y)	-0.00040	-0.00040	-0.00040
	(!A0 * B0N * Y)	0.00024	0.00024	0.00024
	(!A0 * B0N * Y)	0.00001	0.00001	0.00002
	(!A0 * B0N * Y)	-0.00003	-0.00002	-0.00002
	(!A0 * B0N * Y)	-0.00026	-0.00025	-0.00023

Passive power(pJ) for B0N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX1P4H7H	(!A0 * !A1 * Y)	0.00019	0.00021	0.00025
	(!A0 * !A1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * Y)	0.00104	0.00106	0.00109

Passive power(pJ) for B0N falling (conditional):

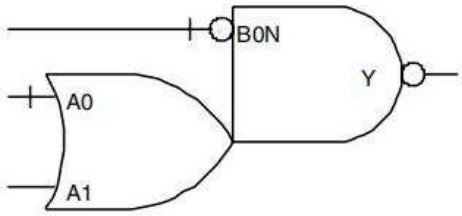
Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX1P4H7H	(!A0 * !A1 * Y)	0.00077	0.00079	0.00083
	(!A0 * !A1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * Y)	-0.00008	-0.00006	-0.00003

OAI21BX2H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI21B cell provides the logical inverted AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0N	Y
0	0	x	1
x	1	0	0
x	1	1	1
1	x	0	0
1	x	1	1

Footprint

Cell Name	Area
OAI21BX2H7H	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0N	Y
OAI21BX2H7H	0.00107	0.00121	0.00101	0.02734

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI21BX2H7H	0.00000	0.02824	0.03710

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI21BX2H7H	A0->Y (FR)	0.04710	0.22893	0.75351
	A1->Y (FR)	0.04414	0.22171	0.74310
	B0N->Y (RR)	0.04897	0.15827	0.41052

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI21BX2H7H	A0->Y (RF)	0.03602	0.17552	0.59978
	A1->Y (RF)	0.03323	0.17026	0.59481
	B0N->Y (FF)	0.07083	0.20536	0.52564

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI21BX2H7H	A0	0.00117	0.00121	0.00124
	A0	-0.00019	-0.00019	-0.00019
	A0	0.00014	0.00014	0.00014
	A0	-0.00019	-0.00015	-0.00013
	A1	0.00090	0.00099	0.00104
	A1	-0.00010	-0.00010	-0.00010
	A1	0.00014	0.00014	0.00014
	A1	-0.00016	-0.00012	-0.00008
	B0N	0.00108	0.00117	0.00125
	B0N	-0.00009	-0.00008	-0.00008
	B0N	0.00002	0.00002	0.00002
	B0N	0.00132	0.00141	0.00150

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI21BX2H7H	A0	0.00022	0.00025	0.00026
	A0	0.00019	0.00019	0.00019
	A0	-0.00014	-0.00014	-0.00014
	A0	0.00158	0.00162	0.00164
	A1	0.00017	0.00022	0.00026
	A1	0.00010	0.00010	0.00010
	A1	-0.00014	-0.00014	-0.00014
	A1	0.00135	0.00140	0.00143
	B0N	0.00128	0.00136	0.00144
	B0N	0.00017	0.00017	0.00017
	B0N	-0.00002	-0.00002	-0.00001
	B0N	0.00100	0.00107	0.00114

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX2H7H	(A1 * B0N * Y)	-0.00016	-0.00015	-0.00013
	(A1 * B0N * Y)	-0.00004	-0.00003	-0.00003
	(A1 * B0N * Y)	0.00001	0.00001	0.00001
	(A1 * B0N * Y)	0.00037	0.00037	0.00037
	(A1 * !B0N * !Y)	-0.00016	-0.00015	-0.00012
	(A1 * !B0N * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * !B0N * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0N * !Y)	0.00037	0.00037	0.00037
	(!A1 * B0N * Y)	-0.00020	-0.00020	-0.00020
	(!A1 * B0N * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0N * Y)	0.00002	0.00003	0.00003
	(!A1 * B0N * Y)	0.00032	0.00032	0.00033

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX2H7H	(A1 * B0N * Y)	0.00016	0.00016	0.00016
	(A1 * B0N * Y)	0.00003	0.00003	0.00004
	(A1 * B0N * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0N * Y)	-0.00037	-0.00037	-0.00037
	(A1 * !B0N * !Y)	0.00016	0.00016	0.00016
	(A1 * !B0N * !Y)	0.00003	0.00003	0.00003
	(A1 * !B0N * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0N * !Y)	-0.00037	-0.00037	-0.00037
	(!A1 * B0N * Y)	0.00020	0.00020	0.00021
	(!A1 * B0N * Y)	0.00001	0.00002	0.00002
	(!A1 * B0N * Y)	-0.00003	-0.00002	-0.00002
	(!A1 * B0N * Y)	-0.00032	-0.00031	-0.00028

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX2H7H	(A0 * B0N * Y)	-0.00022	-0.00020	-0.00018
	(A0 * B0N * Y)	-0.00004	-0.00004	-0.00003
	(A0 * B0N * Y)	0.00000	0.00001	0.00001
	(A0 * B0N * Y)	0.00033	0.00033	0.00033
	(A0 * !B0N * !Y)	-0.00003	-0.00003	-0.00002
	(A0 * !B0N * !Y)	-0.00006	-0.00005	-0.00005
	(A0 * !B0N * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0N * !Y)	0.00043	0.00043	0.00044
	(!A0 * B0N * Y)	-0.00026	-0.00026	-0.00026
	(!A0 * B0N * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0N * Y)	0.00002	0.00003	0.00003
	(!A0 * B0N * Y)	0.00028	0.00029	0.00029

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX2H7H	(A0 * B0N * Y)	0.00022	0.00022	0.00022
	(A0 * B0N * Y)	0.00003	0.00004	0.00004
	(A0 * B0N * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0N * Y)	-0.00033	-0.00033	-0.00033
	(A0 * !B0N * !Y)	0.00002	0.00003	0.00003
	(A0 * !B0N * !Y)	0.00005	0.00006	0.00006
	(A0 * !B0N * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0N * !Y)	-0.00043	-0.00043	-0.00043
	(!A0 * B0N * Y)	0.00026	0.00026	0.00027
	(!A0 * B0N * Y)	0.00001	0.00002	0.00002
	(!A0 * B0N * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * B0N * Y)	-0.00029	-0.00027	-0.00025

Passive power(pJ) for B0N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX2H7H	(!A0 * !A1 * Y)	0.00025	0.00027	0.00031
	(!A0 * !A1 * Y)	0.00003	0.00003	0.00004
	(!A0 * !A1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * Y)	0.00112	0.00115	0.00118

Passive power(pJ) for B0N falling (conditional):

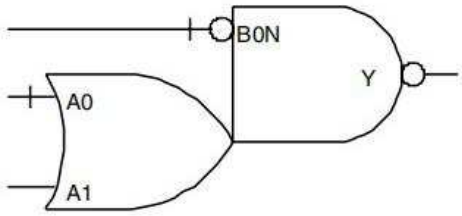
Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX2H7H	(!A0 * !A1 * Y)	0.00078	0.00081	0.00084
	(!A0 * !A1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * Y)	-0.00010	-0.00007	-0.00004

OAI21BX3H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI21B cell provides the logical inverted AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0N	Y
0	0	x	1
x	1	0	0
x	1	1	1
1	x	0	0
1	x	1	1

Footprint

Cell Name	Area
OAI21BX3H7H	3.64000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0N	Y
OAI21BX3H7H	0.00202	0.00187	0.00108	0.04335

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI21BX3H7H	0.00000	0.03662	0.03963

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI21BX3H7H	A0->Y (FR)	0.04782	0.22885	0.75159
	A1->Y (FR)	0.04128	0.21770	0.73890
	B0N->Y (RR)	0.04728	0.16057	0.42256

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI21BX3H7H	A0->Y (RF)	0.03722	0.17618	0.59819
	A1->Y (RF)	0.03290	0.16986	0.59447
	B0N->Y (FF)	0.06702	0.20365	0.52815

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI21BX3H7H	A0	0.00207	0.00214	0.00220
	A0	-0.00029	-0.00028	-0.00028
	A0	0.00021	0.00022	0.00022
	A0	-0.00029	-0.00022	-0.00017
	A1	0.00147	0.00156	0.00163
	A1	-0.00015	-0.00015	-0.00014
	A1	0.00021	0.00021	0.00022
	A1	-0.00027	-0.00020	-0.00015
	B0N	0.00176	0.00188	0.00201
	B0N	-0.00013	-0.00012	-0.00012
	B0N	0.00003	0.00003	0.00004
	B0N	0.00172	0.00185	0.00197

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI21BX3H7H	A0	0.00035	0.00040	0.00043
	A0	0.00028	0.00028	0.00029
	A0	-0.00022	-0.00022	-0.00021
	A0	0.00270	0.00278	0.00282
	A1	0.00036	0.00044	0.00049
	A1	0.00014	0.00015	0.00017
	A1	-0.00022	-0.00021	-0.00021
	A1	0.00225	0.00232	0.00238
	B0N	0.00176	0.00186	0.00197
	B0N	0.00025	0.00025	0.00026
	B0N	-0.00003	-0.00003	-0.00003
	B0N	0.00168	0.00178	0.00188

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX3H7H	(A1 * B0N * Y)	-0.00030	-0.00027	-0.00023
	(A1 * B0N * Y)	-0.00005	-0.00005	-0.00005
	(A1 * B0N * Y)	0.00001	0.00001	0.00001
	(A1 * B0N * Y)	0.00067	0.00067	0.00067
	(A1 * !B0N * !Y)	-0.00028	-0.00025	-0.00021
	(A1 * !B0N * !Y)	-0.00006	-0.00006	-0.00005
	(A1 * !B0N * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0N * !Y)	0.00069	0.00070	0.00070
	(!A1 * B0N * Y)	-0.00037	-0.00037	-0.00037
	(!A1 * B0N * Y)	-0.00003	-0.00002	-0.00002
	(!A1 * B0N * Y)	0.00004	0.00004	0.00005
	(!A1 * B0N * Y)	0.00057	0.00057	0.00058

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX3H7H	(A1 * B0N * Y)	0.00029	0.00030	0.00030
	(A1 * B0N * Y)	0.00005	0.00005	0.00005
	(A1 * B0N * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0N * Y)	-0.00067	-0.00067	-0.00067
	(A1 * !B0N * !Y)	0.00027	0.00028	0.00028
	(A1 * !B0N * !Y)	0.00005	0.00006	0.00006
	(A1 * !B0N * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0N * !Y)	-0.00069	-0.00069	-0.00069
	(!A1 * B0N * Y)	0.00037	0.00038	0.00039
	(!A1 * B0N * Y)	0.00002	0.00003	0.00003
	(!A1 * B0N * Y)	-0.00005	-0.00004	-0.00004
	(!A1 * B0N * Y)	-0.00057	-0.00054	-0.00050

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX3H7H	(A0 * B0N * Y)	-0.00034	-0.00031	-0.00027
	(A0 * B0N * Y)	-0.00006	-0.00006	-0.00005
	(A0 * B0N * Y)	0.00001	0.00001	0.00001
	(A0 * B0N * Y)	0.00050	0.00050	0.00051
	(A0 * !B0N * !Y)	-0.00000	0.00000	0.00001
	(A0 * !B0N * !Y)	-0.00009	-0.00008	-0.00008
	(A0 * !B0N * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0N * !Y)	0.00070	0.00070	0.00070
	(!A0 * B0N * Y)	-0.00042	-0.00042	-0.00042
	(!A0 * B0N * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * B0N * Y)	0.00003	0.00003	0.00004
	(!A0 * B0N * Y)	0.00042	0.00042	0.00043

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX3H7H	(A0 * B0N * Y)	0.00034	0.00034	0.00034
	(A0 * B0N * Y)	0.00005	0.00006	0.00006
	(A0 * B0N * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0N * Y)	-0.00050	-0.00050	-0.00050
	(A0 * !B0N * !Y)	-0.00001	-0.00000	0.00000
	(A0 * !B0N * !Y)	0.00008	0.00009	0.00010
	(A0 * !B0N * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0N * !Y)	-0.00070	-0.00070	-0.00070
	(!A0 * B0N * Y)	0.00042	0.00042	0.00043
	(!A0 * B0N * Y)	0.00002	0.00003	0.00003
	(!A0 * B0N * Y)	-0.00004	-0.00003	-0.00003
	(!A0 * B0N * Y)	-0.00042	-0.00040	-0.00037

Passive power(pJ) for B0N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX3H7H	(!A0 * !A1 * Y)	0.00042	0.00045	0.00049
	(!A0 * !A1 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * Y)	0.00145	0.00147	0.00151

Passive power(pJ) for B0N falling (conditional):

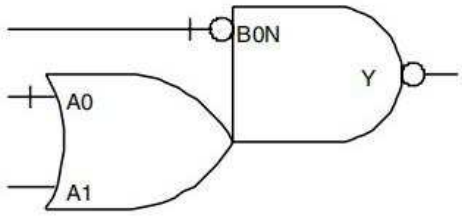
Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX3H7H	(!A0 * !A1 * Y)	0.00095	0.00098	0.00102
	(!A0 * !A1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * Y)	0.00009	0.00009	0.00009
	(!A0 * !A1 * Y)	-0.00008	-0.00005	-0.00002

OAI21BX4H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI21B cell provides the logical inverted AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0N	Y
0	0	x	1
x	1	0	0
x	1	1	1
1	x	0	0
1	x	1	1

Footprint

Cell Name	Area
OAI21BX4H7H	3.92000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0N	Y
OAI21BX4H7H	0.00230	0.00220	0.00114	0.05470

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI21BX4H7H	0.00000	0.05701	0.08133

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI21BX4H7H	A0->Y (FR)	0.04427	0.22734	0.75645
	A1->Y (FR)	0.03810	0.21627	0.74255
	B0N->Y (RR)	0.04501	0.15873	0.42171

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI21BX4H7H	A0->Y (RF)	0.03525	0.17457	0.60076
	A1->Y (RF)	0.03086	0.16831	0.59692
	B0N->Y (FF)	0.06480	0.20227	0.52848

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI21BX4H7H	A0	0.00248	0.00255	0.00262
	A0	-0.00038	-0.00038	-0.00037
	A0	0.00028	0.00028	0.00028
	A0	-0.00037	-0.00030	-0.00023
	A1	0.00171	0.00187	0.00196
	A1	-0.00021	-0.00020	-0.00018
	A1	0.00028	0.00028	0.00028
	A1	-0.00033	-0.00026	-0.00019
	B0N	0.00215	0.00230	0.00244
	B0N	-0.00017	-0.00017	-0.00017
	B0N	0.00004	0.00005	0.00006
	B0N	0.00190	0.00205	0.00219

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI21BX4H7H	A0	0.00040	0.00046	0.00050
	A0	0.00037	0.00038	0.00038
	A0	-0.00028	-0.00028	-0.00028
	A0	0.00322	0.00331	0.00337
	A1	0.00037	0.00047	0.00053
	A1	0.00018	0.00020	0.00022
	A1	-0.00028	-0.00028	-0.00028
	A1	0.00264	0.00272	0.00280
	B0N	0.00192	0.00204	0.00216
	B0N	0.00031	0.00034	0.00037
	B0N	-0.00005	-0.00005	-0.00004
	B0N	0.00204	0.00215	0.00227

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX4H7H	(A1 * B0N * Y)	-0.00037	-0.00034	-0.00029
	(A1 * B0N * Y)	-0.00007	-0.00007	-0.00007
	(A1 * B0N * Y)	0.00001	0.00002	0.00002
	(A1 * B0N * Y)	0.00072	0.00073	0.00073
	(A1 * !B0N * !Y)	-0.00034	-0.00030	-0.00023
	(A1 * !B0N * !Y)	-0.00008	-0.00007	-0.00007
	(A1 * !B0N * !Y)	0.00001	0.00001	0.00002
	(A1 * !B0N * !Y)	0.00077	0.00077	0.00078
	(!A1 * B0N * Y)	-0.00047	-0.00047	-0.00047
	(!A1 * B0N * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * B0N * Y)	0.00005	0.00006	0.00007
	(!A1 * B0N * Y)	0.00062	0.00062	0.00062

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX4H7H	(A1 * B0N * Y)	0.00037	0.00037	0.00038
	(A1 * B0N * Y)	0.00007	0.00007	0.00007
	(A1 * B0N * Y)	-0.00002	-0.00002	-0.00001
	(A1 * B0N * Y)	-0.00073	-0.00073	-0.00072
	(A1 * !B0N * !Y)	0.00033	0.00034	0.00034
	(A1 * !B0N * !Y)	0.00007	0.00007	0.00008
	(A1 * !B0N * !Y)	-0.00002	-0.00001	-0.00001
	(A1 * !B0N * !Y)	-0.00077	-0.00077	-0.00076
	(!A1 * B0N * Y)	0.00047	0.00047	0.00048
	(!A1 * B0N * Y)	0.00003	0.00003	0.00003
	(!A1 * B0N * Y)	-0.00007	-0.00006	-0.00005
	(!A1 * B0N * Y)	-0.00062	-0.00059	-0.00054

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX4H7H	(A0 * B0N * Y)	-0.00042	-0.00038	-0.00033
	(A0 * B0N * Y)	-0.00008	-0.00007	-0.00007
	(A0 * B0N * Y)	0.00001	0.00002	0.00002
	(A0 * B0N * Y)	0.00056	0.00056	0.00057
	(A0 * !B0N * !Y)	-0.00000	0.00000	0.00001
	(A0 * !B0N * !Y)	-0.00012	-0.00011	-0.00010
	(A0 * !B0N * !Y)	0.00001	0.00002	0.00002
	(A0 * !B0N * !Y)	0.00079	0.00079	0.00080
	(!A0 * B0N * Y)	-0.00053	-0.00053	-0.00052
	(!A0 * B0N * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * B0N * Y)	0.00005	0.00005	0.00007
	(!A0 * B0N * Y)	0.00045	0.00047	0.00047

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX4H7H	(A0 * B0N * Y)	0.00042	0.00042	0.00042
	(A0 * B0N * Y)	0.00007	0.00007	0.00008
	(A0 * B0N * Y)	-0.00002	-0.00002	-0.00001
	(A0 * B0N * Y)	-0.00056	-0.00056	-0.00055
	(A0 * !B0N * !Y)	-0.00001	0.00000	0.00001
	(A0 * !B0N * !Y)	0.00010	0.00011	0.00013
	(A0 * !B0N * !Y)	-0.00002	-0.00001	-0.00001
	(A0 * !B0N * !Y)	-0.00079	-0.00079	-0.00079
	(!A0 * B0N * Y)	0.00053	0.00053	0.00053
	(!A0 * B0N * Y)	0.00003	0.00003	0.00003
	(!A0 * B0N * Y)	-0.00007	-0.00005	-0.00004
	(!A0 * B0N * Y)	-0.00047	-0.00044	-0.00041

Passive power(pJ) for B0N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX4H7H	(!A0 * !A1 * Y)	0.00054	0.00056	0.00060
	(!A0 * !A1 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * Y)	-0.00011	-0.00011	-0.00011
	(!A0 * !A1 * Y)	0.00162	0.00165	0.00169

Passive power(pJ) for B0N falling (conditional):

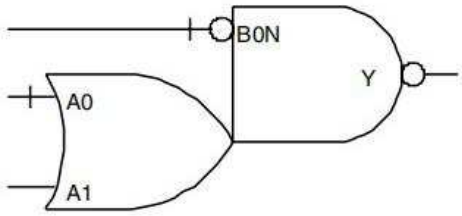
Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX4H7H	(!A0 * !A1 * Y)	0.00098	0.00101	0.00105
	(!A0 * !A1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * Y)	0.00012	0.00012	0.00012
	(!A0 * !A1 * Y)	-0.00012	-0.00009	-0.00005

OAI21BX6H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI21B cell provides the logical inverted AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0N	Y
0	0	x	1
x	1	0	0
x	1	1	1
1	x	0	0
1	x	1	1

Footprint

Cell Name	Area
OAI21BX6H7H	4.76000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0N	Y
OAI21BX6H7H	0.00313	0.00338	0.00130	0.08093

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI21BX6H7H	0.00000	0.08390	0.12273

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI21BX6H7H	A0->Y (FR)	0.04232	0.22501	0.75279
	A1->Y (FR)	0.03741	0.21496	0.74179
	B0N->Y (RR)	0.05141	0.17022	0.44644

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI21BX6H7H	A0->Y (RF)	0.03535	0.17413	0.59953
	A1->Y (RF)	0.03085	0.16717	0.59317
	B0N->Y (FF)	0.07399	0.21729	0.55887

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI21BX6H7H	A0	0.00374	0.00382	0.00390
	A0	-0.00058	-0.00057	-0.00055
	A0	0.00042	0.00043	0.00043
	A0	-0.00049	-0.00040	-0.00033
	A1	0.00269	0.00284	0.00298
	A1	-0.00031	-0.00031	-0.00029
	A1	0.00042	0.00042	0.00043
	A1	-0.00054	-0.00041	-0.00029
	B0N	0.00350	0.00373	0.00396
	B0N	-0.00027	-0.00026	-0.00026
	B0N	0.00007	0.00008	0.00010
	B0N	0.00279	0.00302	0.00325

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI21BX6H7H	A0	0.00063	0.00072	0.00079
	A0	0.00055	0.00057	0.00058
	A0	-0.00043	-0.00043	-0.00042
	A0	0.00483	0.00493	0.00501
	A1	0.00056	0.00071	0.00082
	A1	0.00030	0.00031	0.00032
	A1	-0.00043	-0.00042	-0.00042
	A1	0.00401	0.00415	0.00426
	B0N	0.00279	0.00298	0.00318
	B0N	0.00052	0.00052	0.00053
	B0N	-0.00008	-0.00008	-0.00007
	B0N	0.00329	0.00346	0.00365

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX6H7H	(A1 * B0N * Y)	-0.00055	-0.00049	-0.00041
	(A1 * B0N * Y)	-0.00012	-0.00011	-0.00010
	(A1 * B0N * Y)	0.00002	0.00002	0.00003
	(A1 * B0N * Y)	0.00100	0.00100	0.00101
	(A1 * !B0N * !Y)	-0.00055	-0.00048	-0.00038
	(A1 * !B0N * !Y)	-0.00012	-0.00011	-0.00009
	(A1 * !B0N * !Y)	0.00002	0.00002	0.00002
	(A1 * !B0N * !Y)	0.00101	0.00102	0.00104
	(!A1 * B0N * Y)	-0.00073	-0.00072	-0.00072
	(!A1 * B0N * Y)	-0.00005	-0.00004	-0.00004
	(!A1 * B0N * Y)	0.00007	0.00007	0.00008
	(!A1 * B0N * Y)	0.00086	0.00086	0.00087

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX6H7H	(A1 * B0N * Y)	0.00053	0.00055	0.00056
	(A1 * B0N * Y)	0.00010	0.00011	0.00012
	(A1 * B0N * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0N * Y)	-0.00100	-0.00100	-0.00100
	(A1 * !B0N * !Y)	0.00054	0.00055	0.00055
	(A1 * !B0N * !Y)	0.00009	0.00011	0.00012
	(A1 * !B0N * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0N * !Y)	-0.00101	-0.00101	-0.00100
	(!A1 * B0N * Y)	0.00073	0.00073	0.00073
	(!A1 * B0N * Y)	0.00004	0.00005	0.00005
	(!A1 * B0N * Y)	-0.00008	-0.00007	-0.00007
	(!A1 * B0N * Y)	-0.00086	-0.00082	-0.00074

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX6H7H	(A0 * B0N * Y)	-0.00067	-0.00061	-0.00052
	(A0 * B0N * Y)	-0.00011	-0.00011	-0.00010
	(A0 * B0N * Y)	0.00002	0.00002	0.00003
	(A0 * B0N * Y)	0.00091	0.00091	0.00091
	(A0 * !B0N * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * !B0N * !Y)	-0.00016	-0.00016	-0.00016
	(A0 * !B0N * !Y)	0.00002	0.00002	0.00003
	(A0 * !B0N * !Y)	0.00125	0.00126	0.00127
	(!A0 * B0N * Y)	-0.00084	-0.00084	-0.00083
	(!A0 * B0N * Y)	-0.00005	-0.00004	-0.00004
	(!A0 * B0N * Y)	0.00007	0.00008	0.00008
	(!A0 * B0N * Y)	0.00075	0.00076	0.00077

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX6H7H	(A0 * B0N * Y)	0.00066	0.00067	0.00067
	(A0 * B0N * Y)	0.00010	0.00011	0.00011
	(A0 * B0N * Y)	-0.00003	-0.00002	-0.00002
	(A0 * B0N * Y)	-0.00091	-0.00090	-0.00089
	(A0 * !B0N * !Y)	0.00001	0.00002	0.00002
	(A0 * !B0N * !Y)	0.00016	0.00017	0.00019
	(A0 * !B0N * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0N * !Y)	-0.00126	-0.00126	-0.00125
	(!A0 * B0N * Y)	0.00084	0.00084	0.00085
	(!A0 * B0N * Y)	0.00004	0.00004	0.00005
	(!A0 * B0N * Y)	-0.00008	-0.00008	-0.00007
	(!A0 * B0N * Y)	-0.00076	-0.00072	-0.00065

Passive power(pJ) for B0N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX6H7H	(!A0 * !A1 * Y)	0.00094	0.00097	0.00101
	(!A0 * !A1 * Y)	0.00008	0.00009	0.00009
	(!A0 * !A1 * Y)	-0.00016	-0.00015	-0.00015
	(!A0 * !A1 * Y)	0.00226	0.00229	0.00234

Passive power(pJ) for B0N falling (conditional):

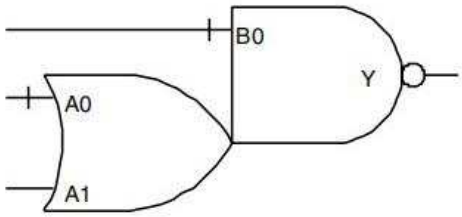
Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX6H7H	(!A0 * !A1 * Y)	0.00126	0.00129	0.00133
	(!A0 * !A1 * Y)	-0.00009	-0.00009	-0.00008
	(!A0 * !A1 * Y)	0.00016	0.00016	0.00016
	(!A0 * !A1 * Y)	-0.00007	-0.00004	0.00001

OAI21X0P5H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI21 cell provides the logical inverted AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0	Y
0	0	x	1
x	1	0	1
x	1	1	0
1	x	0	1
1	x	1	0

Footprint

Cell Name	Area
OAI21X0P5H7H	1.40000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	Y
OAI21X0P5H7H	0.00080	0.00087	0.00092	0.01505

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI21X0P5H7H	0.00000	0.00868	0.01520

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI21X0P5H7H	A0->Y (FR)	0.06311	0.24003	0.74507
	A1->Y (FR)	0.05998	0.23306	0.73655
	B0->Y (FR)	0.02601	0.14328	0.53798

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI21X0P5H7H	A0->Y (RF)	0.04096	0.17374	0.56821
	A1->Y (RF)	0.03863	0.16928	0.56356
	B0->Y (RF)	0.03558	0.16394	0.57560

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI21X0P5H7H	A0	0.00103	0.00106	0.00108
	A0	-0.00010	-0.00010	-0.00009
	A0	0.00007	0.00007	0.00007
	A0	-0.00012	-0.00010	-0.00007
	A1	0.00089	0.00093	0.00096
	A1	-0.00005	-0.00005	-0.00005
	A1	0.00007	0.00007	0.00008
	A1	-0.00007	-0.00004	-0.00001
	B0	0.00076	0.00080	0.00084
	B0	-0.00005	-0.00005	-0.00005
	B0	0.00002	0.00002	0.00003
	B0	-0.00014	-0.00010	-0.00006

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI21X0P5H7H	A0	-0.00008	-0.00007	-0.00006
	A0	0.00009	0.00010	0.00010
	A0	-0.00007	-0.00007	-0.00007
	A0	0.00108	0.00112	0.00113
	A1	-0.00010	-0.00007	-0.00005
	A1	0.00005	0.00005	0.00005
	A1	-0.00008	-0.00007	-0.00007
	A1	0.00091	0.00095	0.00098
	B0	-0.00011	-0.00008	-0.00005
	B0	0.00009	0.00010	0.00010
	B0	-0.00002	-0.00002	-0.00000
	B0	0.00077	0.00080	0.00083

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X0P5H7H	(A1 * B0 * !Y)	-0.00009	-0.00008	-0.00007
	(A1 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !Y)	0.00032	0.00032	0.00032
	(A1 * !B0 * Y)	-0.00009	-0.00008	-0.00007
	(A1 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * Y)	0.00031	0.00032	0.00032
	(!A1 * !B0 * Y)	-0.00011	-0.00011	-0.00011
	(!A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * Y)	0.00027	0.00027	0.00027

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X0P5H7H	(A1 * B0 * !Y)	0.00009	0.00009	0.00009
	(A1 * B0 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !Y)	-0.00032	-0.00032	-0.00031
	(A1 * !B0 * Y)	0.00009	0.00009	0.00009
	(A1 * !B0 * Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * Y)	-0.00032	-0.00032	-0.00031
	(!A1 * !B0 * Y)	0.00011	0.00011	0.00011
	(!A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * Y)	-0.00027	-0.00026	-0.00023

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X0P5H7H	(A0 * B0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !Y)	0.00031	0.00031	0.00031
	(A0 * !B0 * Y)	-0.00013	-0.00012	-0.00011
	(A0 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * Y)	0.00023	0.00023	0.00023
	(!A0 * !B0 * Y)	-0.00016	-0.00015	-0.00015
	(!A0 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * Y)	0.00019	0.00019	0.00020

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X0P5H7H	(A0 * B0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * !Y)	0.00003	0.00003	0.00003
	(A0 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !Y)	-0.00031	-0.00031	-0.00031
	(A0 * !B0 * Y)	0.00013	0.00013	0.00013
	(A0 * !B0 * Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * Y)	-0.00023	-0.00023	-0.00023
	(!A0 * !B0 * Y)	0.00015	0.00015	0.00016
	(!A0 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * Y)	-0.00020	-0.00018	-0.00016

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X0P5H7H	(!A0 * !A1 * Y)	-0.00024	-0.00024	-0.00024
	(!A0 * !A1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * Y)	0.00008	0.00008	0.00008

Passive power(pJ) for B0 falling (conditional):

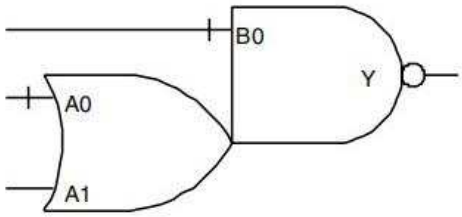
Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X0P5H7H	(!A0 * !A1 * Y)	0.00024	0.00024	0.00024
	(!A0 * !A1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * Y)	-0.00008	-0.00008	-0.00008

OAI21X0P7H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI21 cell provides the logical inverted AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0	Y
0	0	x	1
x	1	0	1
x	1	1	0
1	x	0	1
1	x	1	0

Footprint

Cell Name	Area
OAI21X0P7H7H	1.40000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	Y
OAI21X0P7H7H	0.00085	0.00093	0.00099	0.01717

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI21X0P7H7H	0.00000	0.00981	0.01429

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI21X0P7H7H	A0->Y (FR)	0.05882	0.23673	0.74644
	A1->Y (FR)	0.05562	0.22961	0.73772
	B0->Y (FR)	0.02453	0.14212	0.53986

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI21X0P7H7H	A0->Y (RF)	0.03910	0.17441	0.57800
	A1->Y (RF)	0.03667	0.16976	0.57505
	B0->Y (RF)	0.03415	0.16416	0.58151

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI21X0P7H7H	A0	0.00112	0.00115	0.00117
	A0	-0.00011	-0.00011	-0.00011
	A0	0.00008	0.00009	0.00009
	A0	-0.00013	-0.00010	-0.00008
	A1	0.00096	0.00100	0.00103
	A1	-0.00006	-0.00006	-0.00006
	A1	0.00008	0.00009	0.00009
	A1	-0.00008	-0.00005	-0.00002
	B0	0.00084	0.00088	0.00092
	B0	-0.00006	-0.00006	-0.00005
	B0	0.00002	0.00003	0.00003
	B0	-0.00015	-0.00010	-0.00006

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI21X0P7H7H	A0	-0.00009	-0.00008	-0.00007
	A0	0.00011	0.00011	0.00011
	A0	-0.00009	-0.00009	-0.00008
	A0	0.00115	0.00121	0.00122
	A1	-0.00011	-0.00008	-0.00006
	A1	0.00006	0.00006	0.00006
	A1	-0.00009	-0.00009	-0.00008
	A1	0.00100	0.00103	0.00106
	B0	-0.00013	-0.00009	-0.00006
	B0	0.00011	0.00011	0.00011
	B0	-0.00003	-0.00002	-0.00001
	B0	0.00083	0.00086	0.00090

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X0P7H7H	(A1 * B0 * !Y)	-0.00010	-0.00009	-0.00008
	(A1 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !Y)	0.00033	0.00033	0.00033
	(A1 * !B0 * Y)	-0.00010	-0.00009	-0.00008
	(A1 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * Y)	0.00032	0.00032	0.00033
	(!A1 * !B0 * Y)	-0.00012	-0.00012	-0.00012
	(!A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * Y)	0.00027	0.00027	0.00028

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X0P7H7H	(A1 * B0 * !Y)	0.00010	0.00010	0.00010
	(A1 * B0 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !Y)	-0.00033	-0.00032	-0.00032
	(A1 * !B0 * Y)	0.00010	0.00010	0.00010
	(A1 * !B0 * Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * Y)	-0.00033	-0.00032	-0.00032
	(!A1 * !B0 * Y)	0.00012	0.00013	0.00013
	(!A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * Y)	-0.00028	-0.00026	-0.00023

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X0P7H7H	(A0 * B0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * !Y)	-0.00004	-0.00003	-0.00004
	(A0 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !Y)	0.00033	0.00033	0.00033
	(A0 * !B0 * Y)	-0.00014	-0.00013	-0.00012
	(A0 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * Y)	0.00024	0.00024	0.00025
	(!A0 * !B0 * Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * Y)	0.00001	0.00002	0.00002
	(!A0 * !B0 * Y)	0.00020	0.00020	0.00020

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X0P7H7H	(A0 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !Y)	0.00004	0.00004	0.00004
	(A0 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !Y)	-0.00033	-0.00033	-0.00032
	(A0 * !B0 * Y)	0.00014	0.00014	0.00014
	(A0 * !B0 * Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * Y)	-0.00024	-0.00024	-0.00024
	(!A0 * !B0 * Y)	0.00017	0.00017	0.00017
	(!A0 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B0 * Y)	-0.00020	-0.00019	-0.00017

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X0P7H7H	(!A0 * !A1 * Y)	-0.00027	-0.00027	-0.00027
	(!A0 * !A1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * Y)	0.00007	0.00007	0.00007

Passive power(pJ) for B0 falling (conditional):

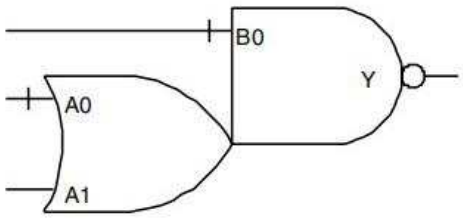
Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X0P7H7H	(!A0 * !A1 * Y)	0.00027	0.00027	0.00027
	(!A0 * !A1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * Y)	-0.00007	-0.00007	-0.00007

OAI21X1H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI21 cell provides the logical inverted AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0	Y
0	0	x	1
x	1	0	1
x	1	1	0
1	x	0	1
1	x	1	0

Footprint

Cell Name	Area
OAI21X1H7H	1.40000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	Y
OAI21X1H7H	0.00089	0.00099	0.00105	0.02065

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI21X1H7H	0.00000	0.01244	0.01348

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI21X1H7H	A0->Y (FR)	0.05213	0.23149	0.74810
	A1->Y (FR)	0.04861	0.22379	0.73766
	B0->Y (FR)	0.02191	0.13970	0.54210

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI21X1H7H	A0->Y (RF)	0.03653	0.17624	0.59538
	A1->Y (RF)	0.03364	0.17098	0.59129
	B0->Y (RF)	0.03173	0.16578	0.59539

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI21X1H7H	A0	0.00122	0.00125	0.00127
	A0	-0.00014	-0.00014	-0.00013
	A0	0.00010	0.00010	0.00010
	A0	-0.00012	-0.00010	-0.00007
	A1	0.00101	0.00106	0.00109
	A1	-0.00007	-0.00007	-0.00007
	A1	0.00010	0.00010	0.00010
	A1	-0.00010	-0.00007	-0.00004
	B0	0.00092	0.00096	0.00101
	B0	-0.00007	-0.00007	-0.00007
	B0	0.00003	0.00003	0.00003
	B0	-0.00017	-0.00012	-0.00008

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI21X1H7H	A0	-0.00011	-0.00009	-0.00008
	A0	0.00013	0.00014	0.00014
	A0	-0.00010	-0.00010	-0.00010
	A0	0.00124	0.00128	0.00130
	A1	-0.00013	-0.00010	-0.00007
	A1	0.00007	0.00007	0.00008
	A1	-0.00010	-0.00010	-0.00010
	A1	0.00107	0.00111	0.00113
	B0	-0.00014	-0.00011	-0.00007
	B0	0.00013	0.00014	0.00014
	B0	-0.00003	-0.00003	-0.00003
	B0	0.00091	0.00094	0.00099

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X1H7H	(A1 * B0 * !Y)	-0.00012	-0.00011	-0.00009
	(A1 * B0 * !Y)	-0.00003	-0.00003	-0.00002
	(A1 * B0 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !Y)	0.00031	0.00031	0.00032
	(A1 * !B0 * Y)	-0.00012	-0.00011	-0.00009
	(A1 * !B0 * Y)	-0.00003	-0.00003	-0.00002
	(A1 * !B0 * Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * Y)	0.00031	0.00031	0.00031
	(!A1 * !B0 * Y)	-0.00015	-0.00015	-0.00015
	(!A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * Y)	0.00026	0.00026	0.00026

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X1H7H	(A1 * B0 * !Y)	0.00012	0.00012	0.00012
	(A1 * B0 * !Y)	0.00003	0.00003	0.00003
	(A1 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !Y)	-0.00031	-0.00031	-0.00031
	(A1 * !B0 * Y)	0.00012	0.00012	0.00012
	(A1 * !B0 * Y)	0.00003	0.00003	0.00003
	(A1 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * Y)	-0.00031	-0.00031	-0.00031
	(!A1 * !B0 * Y)	0.00015	0.00015	0.00015
	(!A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * Y)	-0.00026	-0.00025	-0.00022

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X1H7H	(A0 * B0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * B0 * !Y)	0.00000	0.00001	0.00001
	(A0 * B0 * !Y)	0.00034	0.00035	0.00035
	(A0 * !B0 * Y)	-0.00016	-0.00014	-0.00013
	(A0 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * !B0 * Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * Y)	0.00026	0.00026	0.00026
	(!A0 * !B0 * Y)	-0.00019	-0.00019	-0.00019
	(!A0 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * Y)	0.00022	0.00022	0.00022

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X1H7H	(A0 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !Y)	0.00004	0.00005	0.00005
	(A0 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * !Y)	-0.00035	-0.00034	-0.00034
	(A0 * !B0 * Y)	0.00015	0.00015	0.00016
	(A0 * !B0 * Y)	0.00003	0.00003	0.00003
	(A0 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * Y)	-0.00026	-0.00026	-0.00026
	(!A0 * !B0 * Y)	0.00019	0.00019	0.00019
	(!A0 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * Y)	-0.00022	-0.00020	-0.00018

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X1H7H	(!A0 * !A1 * Y)	-0.00030	-0.00029	-0.00029
	(!A0 * !A1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * Y)	0.00008	0.00008	0.00008

Passive power(pJ) for B0 falling (conditional):

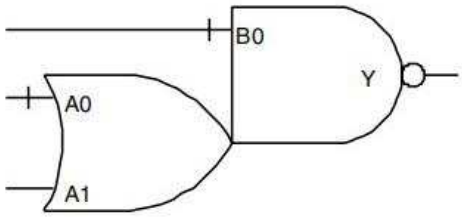
Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X1H7H	(!A0 * !A1 * Y)	0.00029	0.00030	0.00030
	(!A0 * !A1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * Y)	-0.00008	-0.00008	-0.00008

OAI21X1P4H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI21 cell provides the logical inverted AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0	Y
0	0	x	1
x	1	0	1
x	1	1	0
1	x	0	1
1	x	1	0

Footprint

Cell Name	Area
OAI21X1P4H7H	1.40000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	Y
OAI21X1P4H7H	0.00096	0.00108	0.00112	0.02353

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI21X1P4H7H	0.00000	0.01593	0.01942

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI21X1P4H7H	A0->Y (FR)	0.04924	0.22943	0.74877
	A1->Y (FR)	0.04543	0.22146	0.73990
	B0->Y (FR)	0.02036	0.13826	0.54337

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI21X1P4H7H	A0->Y (RF)	0.03498	0.17601	0.60069
	A1->Y (RF)	0.03192	0.17038	0.59580
	B0->Y (RF)	0.03016	0.16525	0.59872

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI21X1P4H7H	A0	0.00134	0.00137	0.00139
	A0	-0.00016	-0.00016	-0.00016
	A0	0.00012	0.00012	0.00012
	A0	-0.00014	-0.00011	-0.00008
	A1	0.00110	0.00115	0.00119
	A1	-0.00009	-0.00008	-0.00008
	A1	0.00012	0.00012	0.00012
	A1	-0.00012	-0.00009	-0.00006
	B0	0.00101	0.00105	0.00110
	B0	-0.00009	-0.00008	-0.00008
	B0	0.00003	0.00003	0.00004
	B0	-0.00018	-0.00013	-0.00008

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI21X1P4H7H	A0	-0.00012	-0.00011	-0.00009
	A0	0.00016	0.00016	0.00016
	A0	-0.00012	-0.00012	-0.00012
	A0	0.00136	0.00140	0.00142
	A1	-0.00015	-0.00011	-0.00008
	A1	0.00008	0.00009	0.00009
	A1	-0.00012	-0.00012	-0.00012
	A1	0.00116	0.00120	0.00123
	B0	-0.00017	-0.00012	-0.00008
	B0	0.00016	0.00016	0.00016
	B0	-0.00003	-0.00003	-0.00003
	B0	0.00098	0.00103	0.00107

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X1P4H7H	(A1 * B0 * !Y)	-0.00014	-0.00012	-0.00010
	(A1 * B0 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !Y)	0.00033	0.00033	0.00033
	(A1 * !B0 * Y)	-0.00014	-0.00012	-0.00011
	(A1 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * Y)	0.00032	0.00032	0.00033
	(!A1 * !B0 * Y)	-0.00017	-0.00017	-0.00017
	(!A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * Y)	0.00027	0.00027	0.00027

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X1P4H7H	(A1 * B0 * !Y)	0.00014	0.00014	0.00014
	(A1 * B0 * !Y)	0.00003	0.00003	0.00003
	(A1 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !Y)	-0.00033	-0.00032	-0.00032
	(A1 * !B0 * Y)	0.00013	0.00014	0.00014
	(A1 * !B0 * Y)	0.00003	0.00003	0.00003
	(A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * Y)	-0.00033	-0.00032	-0.00032
	(!A1 * !B0 * Y)	0.00017	0.00017	0.00017
	(!A1 * !B0 * Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * Y)	-0.00027	-0.00025	-0.00022

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X1P4H7H	(A0 * B0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !Y)	0.00037	0.00037	0.00037
	(A0 * !B0 * Y)	-0.00017	-0.00016	-0.00014
	(A0 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * !B0 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * Y)	0.00027	0.00028	0.00028
	(!A0 * !B0 * Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * Y)	0.00023	0.00023	0.00023

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X1P4H7H	(A0 * B0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * !Y)	0.00005	0.00005	0.00005
	(A0 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !Y)	-0.00037	-0.00037	-0.00037
	(A0 * !B0 * Y)	0.00017	0.00017	0.00017
	(A0 * !B0 * Y)	0.00003	0.00003	0.00003
	(A0 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * Y)	-0.00028	-0.00028	-0.00027
	(!A0 * !B0 * Y)	0.00021	0.00021	0.00021
	(!A0 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * Y)	-0.00023	-0.00021	-0.00019

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X1P4H7H	(!A0 * !A1 * Y)	-0.00032	-0.00032	-0.00032
	(!A0 * !A1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * Y)	0.00007	0.00007	0.00007

Passive power(pJ) for B0 falling (conditional):

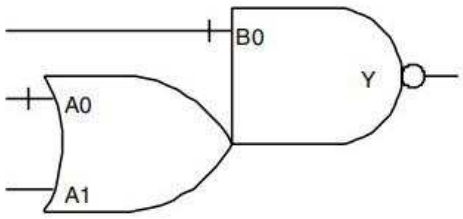
Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X1P4H7H	(!A0 * !A1 * Y)	0.00032	0.00032	0.00032
	(!A0 * !A1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * Y)	-0.00007	-0.00007	-0.00007

OAI21X2H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI21 cell provides the logical inverted AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0	Y
0	0	x	1
x	1	0	1
x	1	1	0
1	x	0	1
1	x	1	0

Footprint

Cell Name	Area
OAI21X2H7H	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	Y
OAI21X2H7H	0.00106	0.00120	0.00123	0.02720

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI21X2H7H	0.00000	0.02239	0.03271

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI21X2H7H	A0->Y (FR)	0.04681	0.22806	0.75147
	A1->Y (FR)	0.04318	0.21994	0.74053
	B0->Y (FR)	0.01951	0.13777	0.54451

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI21X2H7H	A0->Y (RF)	0.03296	0.17264	0.59694
	A1->Y (RF)	0.02989	0.16689	0.59128
	B0->Y (RF)	0.02839	0.16216	0.59261

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI21X2H7H	A0	0.00151	0.00155	0.00158
	A0	-0.00019	-0.00019	-0.00019
	A0	0.00014	0.00014	0.00014
	A0	-0.00016	-0.00013	-0.00010
	A1	0.00121	0.00129	0.00133
	A1	-0.00010	-0.00010	-0.00009
	A1	0.00014	0.00014	0.00014
	A1	-0.00015	-0.00011	-0.00007
	B0	0.00115	0.00120	0.00126
	B0	-0.00010	-0.00010	-0.00010
	B0	0.00004	0.00004	0.00005
	B0	-0.00019	-0.00013	-0.00008

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI21X2H7H	A0	-0.00015	-0.00013	-0.00011
	A0	0.00019	0.00019	0.00019
	A0	-0.00014	-0.00014	-0.00014
	A0	0.00153	0.00158	0.00160
	A1	-0.00017	-0.00012	-0.00009
	A1	0.00010	0.00010	0.00011
	A1	-0.00014	-0.00014	-0.00014
	A1	0.00131	0.00135	0.00138
	B0	-0.00019	-0.00014	-0.00010
	B0	0.00019	0.00019	0.00019
	B0	-0.00004	-0.00004	-0.00004
	B0	0.00109	0.00115	0.00120

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X2H7H	(A1 * B0 * !Y)	-0.00016	-0.00015	-0.00012
	(A1 * B0 * !Y)	-0.00004	-0.00003	-0.00003
	(A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !Y)	0.00035	0.00035	0.00035
	(A1 * !B0 * Y)	-0.00016	-0.00015	-0.00012
	(A1 * !B0 * Y)	-0.00004	-0.00003	-0.00003
	(A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * Y)	0.00035	0.00035	0.00035
	(!A1 * !B0 * Y)	-0.00020	-0.00020	-0.00020
	(!A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * Y)	0.00029	0.00029	0.00030

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X2H7H	(A1 * B0 * !Y)	0.00016	0.00016	0.00016
	(A1 * B0 * !Y)	0.00003	0.00003	0.00004
	(A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !Y)	-0.00035	-0.00035	-0.00035
	(A1 * !B0 * Y)	0.00016	0.00016	0.00016
	(A1 * !B0 * Y)	0.00003	0.00003	0.00004
	(A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * Y)	-0.00035	-0.00035	-0.00035
	(!A1 * !B0 * Y)	0.00020	0.00020	0.00020
	(!A1 * !B0 * Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * Y)	-0.00029	-0.00027	-0.00024

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X2H7H	(A0 * B0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !Y)	0.00041	0.00041	0.00041
	(A0 * !B0 * Y)	-0.00020	-0.00018	-0.00016
	(A0 * !B0 * Y)	-0.00004	-0.00004	-0.00003
	(A0 * !B0 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * Y)	0.00031	0.00031	0.00031
	(!A0 * !B0 * Y)	-0.00024	-0.00024	-0.00024
	(!A0 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * Y)	0.00002	0.00003	0.00003
	(!A0 * !B0 * Y)	0.00025	0.00026	0.00026

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X2H7H	(A0 * B0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * !Y)	0.00006	0.00006	0.00006
	(A0 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !Y)	-0.00041	-0.00041	-0.00041
	(A0 * !B0 * Y)	0.00019	0.00019	0.00020
	(A0 * !B0 * Y)	0.00004	0.00004	0.00004
	(A0 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * Y)	-0.00031	-0.00031	-0.00031
	(!A0 * !B0 * Y)	0.00024	0.00024	0.00024
	(!A0 * !B0 * Y)	0.00001	0.00002	0.00002
	(!A0 * !B0 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !B0 * Y)	-0.00026	-0.00024	-0.00021

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X2H7H	(!A0 * !A1 * Y)	-0.00036	-0.00036	-0.00036
	(!A0 * !A1 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * Y)	0.00004	0.00005	0.00005
	(!A0 * !A1 * Y)	0.00006	0.00006	0.00007

Passive power(pJ) for B0 falling (conditional):

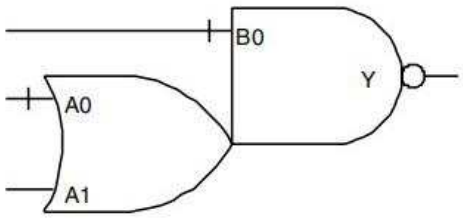
Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X2H7H	(!A0 * !A1 * Y)	0.00036	0.00036	0.00036
	(!A0 * !A1 * Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * Y)	-0.00006	-0.00006	-0.00006

OAI21X3H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI21 cell provides the logical inverted AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0	Y
0	0	x	1
x	1	0	1
x	1	1	0
1	x	0	1
1	x	1	0

Footprint

Cell Name	Area
OAI21X3H7H	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	Y
OAI21X3H7H	0.00179	0.00194	0.00197	0.04326

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI21X3H7H	0.00000	0.02782	0.03184

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI21X3H7H	A0->Y (FR)	0.04680	0.22828	0.75089
	A1->Y (FR)	0.04140	0.21750	0.73929
	B0->Y (FR)	0.01804	0.13485	0.54182

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI21X3H7H	A0->Y (RF)	0.03306	0.17295	0.59658
	A1->Y (RF)	0.02922	0.16612	0.59062
	B0->Y (RF)	0.02679	0.16100	0.59405

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI21X3H7H	A0	0.00265	0.00271	0.00276
	A0	-0.00028	-0.00028	-0.00028
	A0	0.00021	0.00022	0.00022
	A0	-0.00020	-0.00015	-0.00010
	A1	0.00201	0.00212	0.00220
	A1	-0.00015	-0.00015	-0.00014
	A1	0.00021	0.00021	0.00022
	A1	-0.00028	-0.00021	-0.00015
	B0	0.00198	0.00206	0.00215
	B0	-0.00015	-0.00015	-0.00015
	B0	0.00005	0.00006	0.00007
	B0	-0.00031	-0.00021	-0.00013

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI21X3H7H	A0	-0.00026	-0.00021	-0.00017
	A0	0.00028	0.00028	0.00028
	A0	-0.00022	-0.00022	-0.00021
	A0	0.00262	0.00268	0.00272
	A1	-0.00027	-0.00017	-0.00012
	A1	0.00014	0.00015	0.00017
	A1	-0.00022	-0.00021	-0.00021
	A1	0.00222	0.00230	0.00236
	B0	-0.00025	-0.00017	-0.00010
	B0	0.00028	0.00028	0.00028
	B0	-0.00006	-0.00006	-0.00004
	B0	0.00189	0.00196	0.00203

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X3H7H	(A1 * B0 * !Y)	-0.00028	-0.00025	-0.00020
	(A1 * B0 * !Y)	-0.00006	-0.00006	-0.00005
	(A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !Y)	0.00061	0.00062	0.00064
	(A1 * !B0 * Y)	-0.00029	-0.00026	-0.00021
	(A1 * !B0 * Y)	-0.00006	-0.00006	-0.00005
	(A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * Y)	0.00060	0.00061	0.00061
	(!A1 * !B0 * Y)	-0.00038	-0.00038	-0.00038
	(!A1 * !B0 * Y)	-0.00003	-0.00002	-0.00002
	(!A1 * !B0 * Y)	0.00004	0.00004	0.00004
	(!A1 * !B0 * Y)	0.00049	0.00049	0.00050

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X3H7H	(A1 * B0 * !Y)	0.00028	0.00028	0.00028
	(A1 * B0 * !Y)	0.00005	0.00006	0.00006
	(A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !Y)	-0.00061	-0.00061	-0.00061
	(A1 * !B0 * Y)	0.00028	0.00028	0.00029
	(A1 * !B0 * Y)	0.00005	0.00006	0.00006
	(A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * Y)	-0.00060	-0.00060	-0.00060
	(!A1 * !B0 * Y)	0.00038	0.00039	0.00039
	(!A1 * !B0 * Y)	0.00002	0.00003	0.00003
	(!A1 * !B0 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * !B0 * Y)	-0.00049	-0.00046	-0.00041

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X3H7H	(A0 * B0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * !Y)	-0.00008	-0.00007	-0.00007
	(A0 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !Y)	0.00075	0.00075	0.00075
	(A0 * !B0 * Y)	-0.00035	-0.00032	-0.00027
	(A0 * !B0 * Y)	-0.00005	-0.00005	-0.00005
	(A0 * !B0 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * Y)	0.00053	0.00054	0.00054
	(!A0 * !B0 * Y)	-0.00045	-0.00044	-0.00044
	(!A0 * !B0 * Y)	-0.00003	-0.00002	-0.00002
	(!A0 * !B0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !B0 * Y)	0.00042	0.00043	0.00043

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X3H7H	(A0 * B0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * !Y)	0.00008	0.00008	0.00008
	(A0 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !Y)	-0.00075	-0.00075	-0.00074
	(A0 * !B0 * Y)	0.00035	0.00035	0.00035
	(A0 * !B0 * Y)	0.00005	0.00005	0.00005
	(A0 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * Y)	-0.00054	-0.00053	-0.00052
	(!A0 * !B0 * Y)	0.00044	0.00045	0.00045
	(!A0 * !B0 * Y)	0.00002	0.00003	0.00003
	(!A0 * !B0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !B0 * Y)	-0.00043	-0.00040	-0.00035

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X3H7H	(!A0 * !A1 * Y)	-0.00058	-0.00058	-0.00057
	(!A0 * !A1 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * Y)	0.00016	0.00017	0.00017

Passive power(pJ) for B0 falling (conditional):

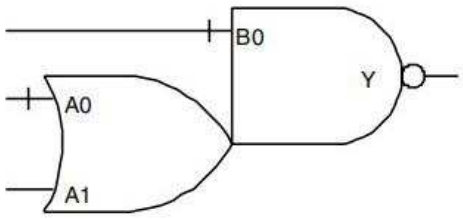
Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X3H7H	(!A0 * !A1 * Y)	0.00057	0.00058	0.00059
	(!A0 * !A1 * Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * Y)	-0.00016	-0.00016	-0.00016

OAI21X4H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI21 cell provides the logical inverted AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0	Y
0	0	x	1
x	1	0	1
x	1	1	0
1	x	0	1
1	x	1	0

Footprint

Cell Name	Area
OAI21X4H7H	3.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	Y
OAI21X4H7H	0.00207	0.00225	0.00228	0.05432

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI21X4H7H	0.00000	0.04502	0.06542

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI21X4H7H	A0->Y (FR)	0.04303	0.22567	0.75305
	A1->Y (FR)	0.03814	0.21540	0.74174
	B0->Y (FR)	0.01673	0.13380	0.54334

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI21X4H7H	A0->Y (RF)	0.03060	0.17052	0.59686
	A1->Y (RF)	0.02699	0.16380	0.59068
	B0->Y (RF)	0.02494	0.15892	0.59335

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI21X4H7H	A0	0.00313	0.00318	0.00324
	A0	-0.00041	-0.00038	-0.00037
	A0	0.00028	0.00028	0.00029
	A0	-0.00030	-0.00024	-0.00019
	A1	0.00239	0.00250	0.00259
	A1	-0.00021	-0.00020	-0.00020
	A1	0.00028	0.00028	0.00028
	A1	-0.00037	-0.00029	-0.00022
	B0	0.00234	0.00243	0.00254
	B0	-0.00021	-0.00020	-0.00020
	B0	0.00006	0.00008	0.00009
	B0	-0.00040	-0.00028	-0.00018

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI21X4H7H	A0	-0.00033	-0.00027	-0.00022
	A0	0.00037	0.00038	0.00041
	A0	-0.00029	-0.00028	-0.00028
	A0	0.00310	0.00319	0.00324
	A1	-0.00034	-0.00023	-0.00016
	A1	0.00020	0.00021	0.00022
	A1	-0.00028	-0.00028	-0.00028
	A1	0.00264	0.00272	0.00280
	B0	-0.00033	-0.00023	-0.00015
	B0	0.00037	0.00038	0.00038
	B0	-0.00008	-0.00008	-0.00006
	B0	0.00224	0.00233	0.00242

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X4H7H	(A1 * B0 * !Y)	-0.00036	-0.00032	-0.00026
	(A1 * B0 * !Y)	-0.00007	-0.00007	-0.00007
	(A1 * B0 * !Y)	0.00001	0.00002	0.00002
	(A1 * B0 * !Y)	0.00068	0.00068	0.00070
	(A1 * !B0 * Y)	-0.00036	-0.00032	-0.00027
	(A1 * !B0 * Y)	-0.00007	-0.00007	-0.00007
	(A1 * !B0 * Y)	0.00001	0.00001	0.00002
	(A1 * !B0 * Y)	0.00067	0.00067	0.00068
	(!A1 * !B0 * Y)	-0.00047	-0.00047	-0.00047
	(!A1 * !B0 * Y)	-0.00003	-0.00003	-0.00002
	(!A1 * !B0 * Y)	0.00005	0.00005	0.00005
	(!A1 * !B0 * Y)	0.00055	0.00055	0.00055

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X4H7H	(A1 * B0 * !Y)	0.00035	0.00035	0.00036
	(A1 * B0 * !Y)	0.00007	0.00007	0.00007
	(A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !Y)	-0.00068	-0.00067	-0.00067
	(A1 * !B0 * Y)	0.00035	0.00036	0.00036
	(A1 * !B0 * Y)	0.00007	0.00007	0.00007
	(A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * Y)	-0.00067	-0.00067	-0.00066
	(!A1 * !B0 * Y)	0.00047	0.00048	0.00048
	(!A1 * !B0 * Y)	0.00002	0.00003	0.00003
	(!A1 * !B0 * Y)	-0.00005	-0.00005	-0.00005
	(!A1 * !B0 * Y)	-0.00055	-0.00051	-0.00046

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X4H7H	(A0 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !Y)	-0.00010	-0.00010	-0.00010
	(A0 * B0 * !Y)	0.00001	0.00002	0.00002
	(A0 * B0 * !Y)	0.00084	0.00085	0.00086
	(A0 * !B0 * Y)	-0.00043	-0.00039	-0.00033
	(A0 * !B0 * Y)	-0.00007	-0.00007	-0.00007
	(A0 * !B0 * Y)	0.00001	0.00001	0.00002
	(A0 * !B0 * Y)	0.00060	0.00060	0.00061
	(!A0 * !B0 * Y)	-0.00054	-0.00054	-0.00053
	(!A0 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !B0 * Y)	0.00005	0.00005	0.00005
	(!A0 * !B0 * Y)	0.00048	0.00048	0.00048

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X4H7H	(A0 * B0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * !Y)	0.00010	0.00010	0.00011
	(A0 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !Y)	-0.00085	-0.00085	-0.00084
	(A0 * !B0 * Y)	0.00043	0.00043	0.00043
	(A0 * !B0 * Y)	0.00007	0.00007	0.00007
	(A0 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * Y)	-0.00060	-0.00060	-0.00059
	(!A0 * !B0 * Y)	0.00054	0.00054	0.00055
	(!A0 * !B0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !B0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !B0 * Y)	-0.00048	-0.00045	-0.00039

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X4H7H	(!A0 * !A1 * Y)	-0.00070	-0.00069	-0.00069
	(!A0 * !A1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * Y)	0.00014	0.00014	0.00015

Passive power(pJ) for B0 falling (conditional):

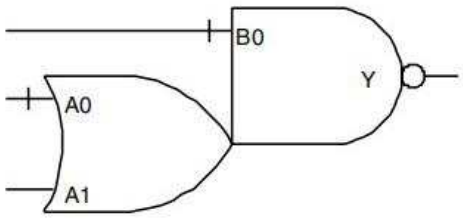
Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X4H7H	(!A0 * !A1 * Y)	0.00070	0.00070	0.00071
	(!A0 * !A1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * Y)	-0.00014	-0.00014	-0.00014

OAI21X6H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI21 cell provides the logical inverted AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0	Y
0	0	x	1
x	1	0	1
x	1	1	0
1	x	0	1
1	x	1	0

Footprint

Cell Name	Area
OAI21X6H7H	4.20000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	Y
OAI21X6H7H	0.00307	0.00331	0.00337	0.08114

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI21X6H7H	0.00000	0.06717	0.09813

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI21X6H7H	A0->Y (FR)	0.04108	0.22350	0.75218
	A1->Y (FR)	0.03622	0.21344	0.74037
	B0->Y (FR)	0.01573	0.13209	0.54237

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI21X6H7H	A0->Y (RF)	0.02939	0.16900	0.59599
	A1->Y (RF)	0.02567	0.16226	0.59079
	B0->Y (RF)	0.02383	0.15773	0.59423

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI21X6H7H	A0	0.00459	0.00468	0.00476
	A0	-0.00057	-0.00057	-0.00056
	A0	0.00042	0.00043	0.00043
	A0	-0.00053	-0.00044	-0.00036
	A1	0.00345	0.00370	0.00384
	A1	-0.00031	-0.00031	-0.00030
	A1	0.00042	0.00042	0.00043
	A1	-0.00057	-0.00044	-0.00033
	B0	0.00342	0.00356	0.00372
	B0	-0.00031	-0.00030	-0.00030
	B0	0.00012	0.00012	0.00014
	B0	-0.00065	-0.00047	-0.00032

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI21X6H7H	A0	-0.00049	-0.00040	-0.00034
	A0	0.00056	0.00057	0.00057
	A0	-0.00043	-0.00043	-0.00042
	A0	0.00461	0.00476	0.00484
	A1	-0.00054	-0.00039	-0.00029
	A1	0.00030	0.00031	0.00032
	A1	-0.00043	-0.00042	-0.00042
	A1	0.00385	0.00399	0.00410
	B0	-0.00053	-0.00038	-0.00026
	B0	0.00056	0.00056	0.00057
	B0	-0.00012	-0.00012	-0.00010
	B0	0.00333	0.00346	0.00360

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X6H7H	(A1 * B0 * !Y)	-0.00054	-0.00048	-0.00039
	(A1 * B0 * !Y)	-0.00011	-0.00011	-0.00011
	(A1 * B0 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !Y)	0.00101	0.00102	0.00105
	(A1 * !B0 * Y)	-0.00053	-0.00048	-0.00040
	(A1 * !B0 * Y)	-0.00011	-0.00011	-0.00011
	(A1 * !B0 * Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * Y)	0.00100	0.00100	0.00101
	(!A1 * !B0 * Y)	-0.00070	-0.00070	-0.00070
	(!A1 * !B0 * Y)	-0.00005	-0.00004	-0.00004
	(!A1 * !B0 * Y)	0.00007	0.00008	0.00008
	(!A1 * !B0 * Y)	0.00083	0.00083	0.00084

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X6H7H	(A1 * B0 * !Y)	0.00053	0.00053	0.00054
	(A1 * B0 * !Y)	0.00011	0.00011	0.00011
	(A1 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !Y)	-0.00101	-0.00101	-0.00100
	(A1 * !B0 * Y)	0.00052	0.00053	0.00053
	(A1 * !B0 * Y)	0.00011	0.00011	0.00011
	(A1 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * Y)	-0.00100	-0.00100	-0.00100
	(!A1 * !B0 * Y)	0.00070	0.00071	0.00071
	(!A1 * !B0 * Y)	0.00004	0.00005	0.00005
	(!A1 * !B0 * Y)	-0.00008	-0.00008	-0.00007
	(!A1 * !B0 * Y)	-0.00083	-0.00078	-0.00069

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X6H7H	(A0 * B0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * !Y)	-0.00016	-0.00016	-0.00016
	(A0 * B0 * !Y)	0.00002	0.00002	0.00003
	(A0 * B0 * !Y)	0.00124	0.00124	0.00125
	(A0 * !B0 * Y)	-0.00064	-0.00058	-0.00049
	(A0 * !B0 * Y)	-0.00011	-0.00011	-0.00010
	(A0 * !B0 * Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * Y)	0.00089	0.00089	0.00090
	(!A0 * !B0 * Y)	-0.00080	-0.00080	-0.00078
	(!A0 * !B0 * Y)	-0.00005	-0.00004	-0.00004
	(!A0 * !B0 * Y)	0.00007	0.00007	0.00008
	(!A0 * !B0 * Y)	0.00071	0.00072	0.00072

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X6H7H	(A0 * B0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * !Y)	0.00016	0.00017	0.00017
	(A0 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !Y)	-0.00124	-0.00124	-0.00123
	(A0 * !B0 * Y)	0.00063	0.00064	0.00064
	(A0 * !B0 * Y)	0.00010	0.00011	0.00011
	(A0 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * Y)	-0.00089	-0.00088	-0.00087
	(!A0 * !B0 * Y)	0.00080	0.00080	0.00081
	(!A0 * !B0 * Y)	0.00004	0.00005	0.00005
	(!A0 * !B0 * Y)	-0.00008	-0.00007	-0.00007
	(!A0 * !B0 * Y)	-0.00072	-0.00066	-0.00058

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X6H7H	(!A0 * !A1 * Y)	-0.00104	-0.00103	-0.00103
	(!A0 * !A1 * Y)	-0.00005	-0.00004	-0.00004
	(!A0 * !A1 * Y)	0.00012	0.00013	0.00013
	(!A0 * !A1 * Y)	0.00022	0.00022	0.00022

Passive power(pJ) for B0 falling (conditional):

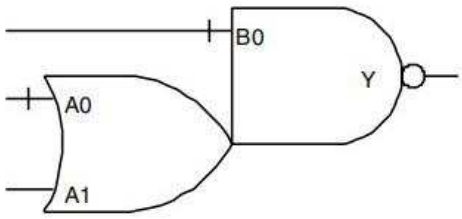
Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X6H7H	(!A0 * !A1 * Y)	0.00103	0.00104	0.00105
	(!A0 * !A1 * Y)	0.00004	0.00005	0.00005
	(!A0 * !A1 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * !A1 * Y)	-0.00022	-0.00022	-0.00022

OAI21X8H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI21 cell provides the logical inverted AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0	Y
0	0	x	1
x	1	0	1
x	1	1	0
1	x	0	1
1	x	1	0

Footprint

Cell Name	Area
OAI21X8H7H	5.32000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	Y
OAI21X8H7H	0.00406	0.00441	0.00454	0.10818

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI21X8H7H	0.00000	0.09004	0.13084

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI21X8H7H	A0->Y (FR)	0.04048	0.22307	0.75237
	A1->Y (FR)	0.03561	0.21287	0.74018
	B0->Y (FR)	0.01555	0.13192	0.54221

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI21X8H7H	A0->Y (RF)	0.02897	0.16861	0.59664
	A1->Y (RF)	0.02533	0.16188	0.59074
	B0->Y (RF)	0.02346	0.15734	0.59373

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI21X8H7H	A0	0.00615	0.00628	0.00639
	A0	-0.00076	-0.00075	-0.00075
	A0	0.00056	0.00057	0.00057
	A0	-0.00068	-0.00056	-0.00047
	A1	0.00459	0.00494	0.00512
	A1	-0.00041	-0.00041	-0.00039
	A1	0.00056	0.00057	0.00057
	A1	-0.00081	-0.00064	-0.00049
	B0	0.00462	0.00481	0.00504
	B0	-0.00041	-0.00041	-0.00037
	B0	0.00011	0.00016	0.00018
	B0	-0.00088	-0.00064	-0.00043

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI21X8H7H	A0	-0.00066	-0.00054	-0.00045
	A0	0.00075	0.00075	0.00076
	A0	-0.00057	-0.00057	-0.00056
	A0	0.00621	0.00637	0.00647
	A1	-0.00070	-0.00049	-0.00035
	A1	0.00039	0.00041	0.00043
	A1	-0.00057	-0.00057	-0.00056
	A1	0.00522	0.00541	0.00555
	B0	-0.00070	-0.00049	-0.00032
	B0	0.00075	0.00075	0.00076
	B0	-0.00016	-0.00016	-0.00011
	B0	0.00451	0.00468	0.00486

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X8H7H	(A1 * B0 * !Y)	-0.00072	-0.00064	-0.00052
	(A1 * B0 * !Y)	-0.00015	-0.00015	-0.00014
	(A1 * B0 * !Y)	0.00003	0.00003	0.00003
	(A1 * B0 * !Y)	0.00132	0.00134	0.00136
	(A1 * !B0 * Y)	-0.00072	-0.00065	-0.00054
	(A1 * !B0 * Y)	-0.00015	-0.00015	-0.00014
	(A1 * !B0 * Y)	0.00003	0.00003	0.00003
	(A1 * !B0 * Y)	0.00131	0.00132	0.00133
	(!A1 * !B0 * Y)	-0.00095	-0.00095	-0.00094
	(!A1 * !B0 * Y)	-0.00006	-0.00006	-0.00005
	(!A1 * !B0 * Y)	0.00010	0.00010	0.00010
	(!A1 * !B0 * Y)	0.00107	0.00108	0.00108

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X8H7H	(A1 * B0 * !Y)	0.00071	0.00072	0.00072
	(A1 * B0 * !Y)	0.00014	0.00015	0.00015
	(A1 * B0 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * !Y)	-0.00132	-0.00132	-0.00131
	(A1 * !B0 * Y)	0.00071	0.00071	0.00072
	(A1 * !B0 * Y)	0.00014	0.00015	0.00015
	(A1 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * Y)	-0.00131	-0.00131	-0.00130
	(!A1 * !B0 * Y)	0.00095	0.00096	0.00096
	(!A1 * !B0 * Y)	0.00005	0.00006	0.00006
	(!A1 * !B0 * Y)	-0.00010	-0.00010	-0.00010
	(!A1 * !B0 * Y)	-0.00108	-0.00100	-0.00089

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X8H7H	(A0 * B0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * !Y)	-0.00021	-0.00020	-0.00020
	(A0 * B0 * !Y)	0.00003	0.00003	0.00003
	(A0 * B0 * !Y)	0.00169	0.00169	0.00170
	(A0 * !B0 * Y)	-0.00086	-0.00078	-0.00066
	(A0 * !B0 * Y)	-0.00015	-0.00014	-0.00014
	(A0 * !B0 * Y)	0.00003	0.00003	0.00003
	(A0 * !B0 * Y)	0.00120	0.00121	0.00121
	(!A0 * !B0 * Y)	-0.00108	-0.00108	-0.00107
	(!A0 * !B0 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !B0 * Y)	0.00010	0.00010	0.00010
	(!A0 * !B0 * Y)	0.00096	0.00097	0.00097

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X8H7H	(A0 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !Y)	0.00021	0.00021	0.00022
	(A0 * B0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * !Y)	-0.00169	-0.00168	-0.00167
	(A0 * !B0 * Y)	0.00085	0.00086	0.00086
	(A0 * !B0 * Y)	0.00014	0.00014	0.00015
	(A0 * !B0 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * !B0 * Y)	-0.00121	-0.00120	-0.00118
	(!A0 * !B0 * Y)	0.00108	0.00108	0.00109
	(!A0 * !B0 * Y)	0.00006	0.00006	0.00006
	(!A0 * !B0 * Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !B0 * Y)	-0.00097	-0.00090	-0.00078

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X8H7H	(!A0 * !A1 * Y)	-0.00141	-0.00140	-0.00139
	(!A0 * !A1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * Y)	0.00017	0.00017	0.00017
	(!A0 * !A1 * Y)	0.00029	0.00030	0.00030

Passive power(pJ) for B0 falling (conditional):

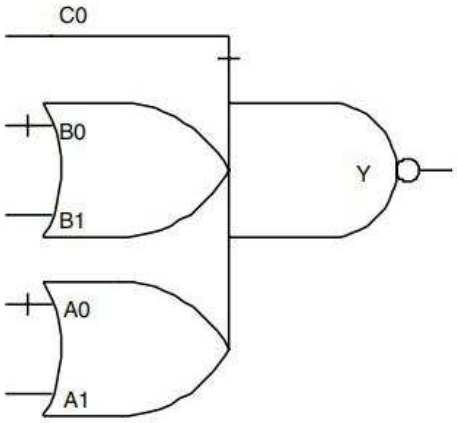
Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X8H7H	(!A0 * !A1 * Y)	0.00139	0.00141	0.00142
	(!A0 * !A1 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !A1 * Y)	-0.00029	-0.00029	-0.00029

OAI221X0P5H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI221 cell provides the logical inverted AND of two OR groups and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT					OUTPUT
A0	A1	B0	B1	C0	Y
0	0	x	x	x	1
x	1	0	0	x	1
x	1	x	1	0	1
x	1	x	1	1	0
x	1	1	x	0	1
x	1	1	x	1	0
1	x	0	0	x	1
1	x	x	1	0	1
1	x	x	1	1	0
1	x	1	x	0	1
1	x	1	x	1	0

Footprint

Cell Name	Area
OAI221X0P5H7H	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	A1	B0	B1	C0	Y
OAI221X0P5H7H	0.00081	0.00073	0.00086	0.00085	0.00098	0.01424

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI221X0P5H7H	0.00000	0.01062	0.02311

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI221X0P5H7H	A0->Y (FR)	0.08030	0.25218	0.73829
	A1->Y (FR)	0.08178	0.25730	0.74612
	B0->Y (FR)	0.07009	0.23796	0.72388
	B1->Y (FR)	0.07394	0.24547	0.73342
	C0->Y (FR)	0.03049	0.14633	0.53035

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI221X0P5H7H	A0->Y (RF)	0.07603	0.23440	0.66710
	A1->Y (RF)	0.07936	0.23851	0.67104
	B0->Y (RF)	0.07158	0.23279	0.69368
	B1->Y (RF)	0.07642	0.23890	0.69977
	C0->Y (RF)	0.06401	0.22145	0.68494

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI221X0P5H7H	A0	0.00149	0.00154	0.00157
	A0	-0.00008	-0.00008	-0.00008
	A0	0.00014	0.00014	0.00014
	A0	-0.00002	0.00001	0.00003
	A1	0.00160	0.00165	0.00167
	A1	-0.00013	-0.00013	-0.00013
	A1	0.00014	0.00014	0.00014
	A1	-0.00006	-0.00004	-0.00003
	B0	0.00126	0.00130	0.00133
	B0	-0.00008	-0.00008	-0.00008
	B0	0.00007	0.00007	0.00008
	B0	-0.00002	0.00002	0.00005
	B1	0.00140	0.00145	0.00147
	B1	-0.00013	-0.00013	-0.00012
	B1	0.00007	0.00007	0.00008
	B1	-0.00004	0.00000	0.00003
	C0	0.00113	0.00117	0.00121
	C0	-0.00008	-0.00008	-0.00008
	C0	0.00001	0.00002	0.00004
	C0	-0.00011	-0.00007	-0.00003

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI221X0P5H7H	A0	-0.00009	-0.00006	-0.00005
	A0	0.00012	0.00013	0.00013
	A0	-0.00014	-0.00014	-0.00014
	A0	0.00155	0.00157	0.00159
	A1	-0.00008	-0.00006	-0.00006
	A1	0.00017	0.00017	0.00017
	A1	-0.00014	-0.00014	-0.00014
	A1	0.00169	0.00171	0.00172
	B0	-0.00011	-0.00007	-0.00005
	B0	0.00013	0.00013	0.00013
	B0	-0.00008	-0.00007	-0.00007
	B0	0.00122	0.00125	0.00127
	B1	-0.00010	-0.00007	-0.00006
	B1	0.00017	0.00017	0.00017
	B1	-0.00008	-0.00007	-0.00007
	B1	0.00136	0.00138	0.00140
	C0	-0.00012	-0.00008	-0.00005
	C0	0.00017	0.00017	0.00017
	C0	-0.00002	-0.00002	-0.00001
	C0	0.00107	0.00111	0.00114

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X0P5H7H	**(A1 * B0 * C0 * !Y)**	-0.00000	-0.00000	0.00000
	(A1 * B0 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !Y)	0.00031	0.00031	0.00031
	(A1 * B0 * !C0 * Y)	-0.00011	-0.00010	-0.00009
	(A1 * B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * Y)	0.00025	0.00025	0.00025
	(A1 * !B0 * B1 * C0 * !Y)	-0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * C0 * !Y)	0.00030	0.00031	0.00031
	(A1 * !B0 * B1 * !C0 * Y)	-0.00011	-0.00010	-0.00009
	(A1 * !B0 * B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * !C0 * Y)	0.00025	0.00025	0.00025
	(A1 * !B0 * !B1 * C0 * Y)	-0.00011	-0.00010	-0.00009
	(A1 * !B0 * !B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !B1 * C0 * Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * !B1 * C0 * Y)	0.00024	0.00024	0.00024
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00011	-0.00010	-0.00009
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * !C0 * Y)	0.00024	0.00024	0.00024
	(!A1 * B0 * !C0 * Y)	-0.00013	-0.00013	-0.00013
	(!A1 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !C0 * Y)	0.00002	0.00002	0.00003
	(!A1 * B0 * !C0 * Y)	0.00020	0.00020	0.00020
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00013	-0.00013	-0.00013
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C0 * Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * B1 * !C0 * Y)	0.00020	0.00020	0.00020
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00013	-0.00013	-0.00013
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !B1 * C0 * Y)	0.00020	0.00020	0.00020
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00013	-0.00013	-0.00013
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00020	0.00020	0.00020

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X0P5H7H	**(A1 * B0 * C0 * !Y)**	-0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !Y)	0.00003	0.00003	0.00003
	(A1 * B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * !Y)	-0.00031	-0.00031	-0.00031
	(A1 * B0 * !C0 * Y)	0.00011	0.00011	0.00011
	(A1 * B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * Y)	-0.00025	-0.00025	-0.00025
	(A1 * !B0 * B1 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * B1 * C0 * !Y)	0.00003	0.00003	0.00003
	(A1 * !B0 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * B1 * C0 * !Y)	-0.00031	-0.00031	-0.00030
	(A1 * !B0 * B1 * !C0 * Y)	0.00011	0.00011	0.00011
	(A1 * !B0 * B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * B1 * !C0 * Y)	-0.00025	-0.00025	-0.00025
	(A1 * !B0 * !B1 * C0 * Y)	0.00011	0.00011	0.00011
	(A1 * !B0 * !B1 * C0 * Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * !B1 * C0 * Y)	-0.00024	-0.00024	-0.00024
	(A1 * !B0 * !B1 * !C0 * Y)	0.00011	0.00011	0.00011
	(A1 * !B0 * !B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00024	-0.00024	-0.00024
	(!A1 * B0 * !C0 * Y)	0.00013	0.00013	0.00013
	(!A1 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !C0 * Y)	-0.00003	-0.00002	-0.00002
	(!A1 * B0 * !C0 * Y)	-0.00020	-0.00018	-0.00016
	(!A1 * !B0 * B1 * !C0 * Y)	0.00013	0.00013	0.00013
	(!A1 * !B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00020	-0.00018	-0.00016
	(!A1 * !B0 * !B1 * C0 * Y)	0.00013	0.00013	0.00013
	(!A1 * !B0 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00020	-0.00019	-0.00016
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00013	0.00013	0.00013
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00020	-0.00019	-0.00017

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X0P5H7H	**(A0 * B0 * C0 * !Y)**	-0.00009	-0.00008	-0.00007
	(A0 * B0 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * !Y)	0.00029	0.00029	0.00030
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	-0.00009	-0.00008	-0.00007
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	0.00029	0.00029	0.00029
	(A0 * !B0 * B1 * C0 * !Y)	-0.00009	-0.00008	-0.00007
	(A0 * !B0 * B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * B1 * C0 * !Y)	0.00029	0.00029	0.00029
	(A0 * !B0 * !B1 * Y)	-0.00009	-0.00008	-0.00007
	(A0 * !B0 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !B1 * Y)	0.00029	0.00029	0.00029
	(!A0 * B0 * !C0 * Y)	-0.00011	-0.00011	-0.00011
	(!A0 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * !C0 * Y)	0.00025	0.00025	0.00025
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00011	-0.00011	-0.00011
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * B1 * !C0 * Y)	0.00025	0.00025	0.00025
	(!A0 * !B0 * !B1 * C0 * Y)	-0.00011	-0.00011	-0.00011
	(!A0 * !B0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * C0 * Y)	0.00025	0.00025	0.00026
	(!A0 * !B0 * !B1 * !C0 * Y)	-0.00011	-0.00011	-0.00011
	(!A0 * !B0 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * !C0 * Y)	0.00025	0.00025	0.00026

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X0P5H7H	**(A0 * B0 * C0 * !Y)**	0.00009	0.00009	0.00009
	(A0 * B0 * C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * C0 * !Y)	-0.00029	-0.00029	-0.00029
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	0.00009	0.00009	0.00009
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	-0.00029	-0.00029	-0.00029
	(A0 * !B0 * B1 * C0 * !Y)	0.00009	0.00009	0.00009
	(A0 * !B0 * B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * B1 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !B0 * B1 * C0 * !Y)	-0.00029	-0.00029	-0.00029
	(A0 * !B0 * !B1 * Y)	0.00009	0.00009	0.00009
	(A0 * !B0 * !B1 * Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !B1 * Y)	-0.00029	-0.00029	-0.00029
	(!A0 * B0 * !C0 * Y)	0.00011	0.00011	0.00011
	(!A0 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !C0 * Y)	-0.00025	-0.00023	-0.00021
	(!A0 * !B0 * B1 * !C0 * Y)	0.00011	0.00011	0.00011
	(!A0 * !B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00025	-0.00024	-0.00022
	(!A0 * !B0 * !B1 * C0 * Y)	0.00011	0.00011	0.00011
	(!A0 * !B0 * !B1 * C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * C0 * Y)	-0.00025	-0.00024	-0.00023
	(!A0 * !B0 * !B1 * !C0 * Y)	0.00011	0.00011	0.00011
	(!A0 * !B0 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * !C0 * Y)	-0.00025	-0.00024	-0.00022

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X0P5H7H	**(A0 * B1 * C0 * !Y)**	-0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !Y)	0.00031	0.00032	0.00032
	(A0 * B1 * !C0 * Y)	-0.00014	-0.00014	-0.00012
	(A0 * B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B1 * !C0 * Y)	0.00000	0.00000	0.00001
	(A0 * B1 * !C0 * Y)	0.00022	0.00022	0.00023
	(A0 * !B1 * !C0 * Y)	-0.00017	-0.00017	-0.00016
	(A0 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !B1 * !C0 * Y)	0.00018	0.00018	0.00018
	(!A0 * A1 * B1 * C0 * !Y)	-0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * !Y)	0.00031	0.00032	0.00032
	(!A0 * A1 * B1 * !C0 * Y)	-0.00014	-0.00014	-0.00012
	(!A0 * A1 * B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * !C0 * Y)	0.00022	0.00022	0.00023
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00017	-0.00017	-0.00017
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !C0 * Y)	0.00018	0.00018	0.00018
	(!A0 * !A1 * B1 * C0 * Y)	-0.00015	-0.00014	-0.00013
	(!A0 * !A1 * B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * C0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * B1 * C0 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00015	-0.00014	-0.00013
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * !C0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * B1 * !C0 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !B1 * C0 * Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !A1 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B1 * C0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !B1 * C0 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !B1 * !C0 * Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B1 * !C0 * Y)	0.00004	0.00005	0.00005
	(!A0 * !A1 * !B1 * !C0 * Y)	0.00005	0.00005	0.00005

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X0P5H7H	**(A0 * B1 * C0 * !Y)**	-0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !Y)	0.00003	0.00003	0.00003
	(A0 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * C0 * !Y)	-0.00032	-0.00032	-0.00031
	(A0 * B1 * !C0 * Y)	0.00014	0.00014	0.00014
	(A0 * B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(A0 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * !C0 * Y)	-0.00023	-0.00022	-0.00022
	(A0 * !B1 * !C0 * Y)	0.00017	0.00017	0.00017
	(A0 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B1 * !C0 * Y)	-0.00018	-0.00017	-0.00015
	(!A0 * A1 * B1 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * B1 * C0 * !Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B1 * C0 * !Y)	-0.00032	-0.00032	-0.00031
	(!A0 * A1 * B1 * !C0 * Y)	0.00014	0.00014	0.00014
	(!A0 * A1 * B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B1 * !C0 * Y)	-0.00023	-0.00022	-0.00022
	(!A0 * A1 * !B1 * !C0 * Y)	0.00017	0.00017	0.00017
	(!A0 * A1 * !B1 * !C0 * Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00018	-0.00017	-0.00014
	(!A0 * !A1 * B1 * C0 * Y)	0.00015	0.00015	0.00015
	(!A0 * !A1 * B1 * C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * C0 * Y)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * B1 * C0 * Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !A1 * B1 * !C0 * Y)	0.00015	0.00015	0.00015
	(!A0 * !A1 * B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !B1 * C0 * Y)	0.00017	0.00017	0.00017
	(!A0 * !A1 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B1 * C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !B1 * C0 * Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !A1 * !B1 * !C0 * Y)	0.00017	0.00017	0.00017
	(!A0 * !A1 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B1 * !C0 * Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !A1 * !B1 * !C0 * Y)	-0.00005	-0.00005	-0.00005

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X0P5H7H	**(A0 * B0 * C0 * !Y)**	-0.00009	-0.00008	-0.00007
	(A0 * B0 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * !Y)	0.00030	0.00030	0.00030
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	-0.00013	-0.00012	-0.00011
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	0.00026	0.00026	0.00026
	(A0 * !B0 * !C0 * Y)	-0.00015	-0.00015	-0.00015
	(A0 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !C0 * Y)	0.00021	0.00021	0.00021
	(!A0 * A1 * B0 * C0 * !Y)	-0.00009	-0.00008	-0.00007
	(!A0 * A1 * B0 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * C0 * !Y)	0.00030	0.00030	0.00030
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * !C0 * Y)	0.00021	0.00021	0.00021
	(!A0 * !A1 * B0 * C0 * Y)	-0.00013	-0.00013	-0.00011
	(!A0 * !A1 * B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * C0 * Y)	0.00003	0.00003	0.00004
	(!A0 * !A1 * B0 * C0 * Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * B0 * !C0 * Y)	-0.00013	-0.00012	-0.00011
	(!A0 * !A1 * B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !C0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * B0 * !C0 * Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * !B0 * C0 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * C0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !B0 * C0 * Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * !B0 * !C0 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !A1 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !B0 * !C0 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !B0 * !C0 * Y)	0.00008	0.00008	0.00008

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X0P5H7H	**(A0 * B0 * C0 * !Y)**	0.00009	0.00009	0.00009
	(A0 * B0 * C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * !Y)	-0.00030	-0.00030	-0.00029
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	0.00012	0.00013	0.00013
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	-0.00026	-0.00026	-0.00026
	(A0 * !B0 * !C0 * Y)	0.00015	0.00015	0.00015
	(A0 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !C0 * Y)	-0.00021	-0.00020	-0.00017
	(!A0 * A1 * B0 * C0 * !Y)	0.00009	0.00009	0.00009
	(!A0 * A1 * B0 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * C0 * !Y)	-0.00030	-0.00030	-0.00029
	(!A0 * A1 * !B0 * !C0 * Y)	0.00015	0.00015	0.00015
	(!A0 * A1 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00021	-0.00020	-0.00017
	(!A0 * !A1 * B0 * C0 * Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * B0 * C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * C0 * Y)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * B0 * C0 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * B0 * !C0 * Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * !C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * B0 * !C0 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * !B0 * C0 * Y)	0.00015	0.00015	0.00015
	(!A0 * !A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !B0 * C0 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * !B0 * !C0 * Y)	0.00015	0.00015	0.00015
	(!A0 * !A1 * !B0 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !B0 * !C0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !B0 * !C0 * Y)	-0.00008	-0.00008	-0.00008

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI221X0P5H7H	(A0 * !B0 * !B1 * Y)	-0.00026	-0.00026	-0.00026
	(A0 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * !B1 * Y)	0.00009	0.00009	0.00009
	(!A0 * !B0 * !B1 * Y)	-0.00026	-0.00026	-0.00026
	(!A0 * !B0 * !B1 * Y)	-0.00001	-0.00001	0.00000
	(!A0 * !B0 * !B1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * !B1 * Y)	0.00009	0.00009	0.00009
	(!A0 * !A1 * B0 * Y)	-0.00026	-0.00026	-0.00026
	(!A0 * !A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B0 * Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * !B0 * B1 * Y)	-0.00026	-0.00026	-0.00026
	(!A0 * !A1 * !B0 * B1 * Y)	-0.00001	-0.00001	0.00000
	(!A0 * !A1 * !B0 * B1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !B0 * B1 * Y)	0.00008	0.00008	0.00009

Passive power(pJ) for C0 falling (conditional):

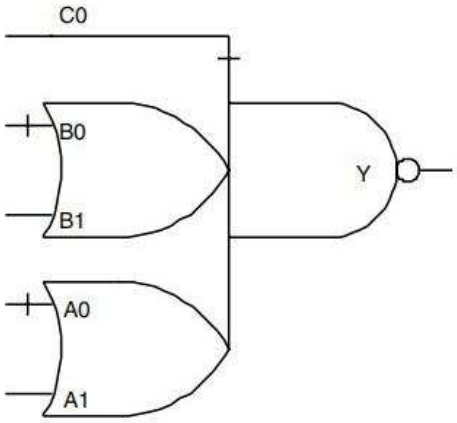
Cell Name	When	Power(pJ)		
		min	avg	max
OAI221X0P5H7H	(A0 * !B0 * !B1 * Y)	0.00026	0.00026	0.00027
	(A0 * !B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * !B1 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !B0 * !B1 * Y)	0.00026	0.00026	0.00027
	(!A0 * !B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * !B1 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * B0 * Y)	0.00026	0.00026	0.00027
	(!A0 * !A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * !B0 * B1 * Y)	0.00026	0.00026	0.00027
	(!A0 * !A1 * !B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !B0 * B1 * Y)	-0.00008	-0.00008	-0.00008

OAI221X0P7H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI221 cell provides the logical inverted AND of two OR groups and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT					OUTPUT
A0	A1	B0	B1	C0	Y
0	0	x	x	x	1
x	1	0	0	x	1
x	1	x	1	0	1
x	1	x	1	1	0
x	1	1	x	0	1
x	1	1	x	1	0
1	x	0	0	x	1
1	x	x	1	0	1
1	x	x	1	1	0
1	x	1	x	0	1
1	x	1	x	1	0

Footprint

Cell Name	Area
OAI221X0P7H7H	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	A1	B0	B1	C0	Y
OAI221X0P7H7H	0.00091	0.00079	0.00090	0.00085	0.00099	0.01630

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI221X0P7H7H	0.00000	0.01184	0.02179

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI221X0P7H7H	A0->Y (FR)	0.07638	0.24982	0.74169
	A1->Y (FR)	0.07784	0.25497	0.74916
	B0->Y (FR)	0.06326	0.23250	0.72314
	B1->Y (FR)	0.06658	0.23961	0.73254
	C0->Y (FR)	0.02801	0.14412	0.53144

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI221X0P7H7H	A0->Y (RF)	0.07492	0.23778	0.68399
	A1->Y (RF)	0.07770	0.24174	0.68748
	B0->Y (RF)	0.06741	0.23249	0.70565
	B1->Y (RF)	0.07161	0.23776	0.71006
	C0->Y (RF)	0.05955	0.21970	0.69071

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI221X0P7H7H	A0	0.00165	0.00169	0.00173
	A0	-0.00010	-0.00010	-0.00009
	A0	0.00016	0.00016	0.00017
	A0	0.00001	0.00004	0.00007
	A1	0.00179	0.00182	0.00185
	A1	-0.00015	-0.00015	-0.00014
	A1	0.00016	0.00016	0.00017
	A1	-0.00002	0.00000	0.00002
	B0	0.00132	0.00137	0.00140
	B0	-0.00009	-0.00009	-0.00008
	B0	0.00008	0.00009	0.00009
	B0	-0.00001	0.00003	0.00005
	B1	0.00149	0.00153	0.00155
	B1	-0.00015	-0.00015	-0.00014
	B1	0.00008	0.00009	0.00009
	B1	-0.00000	0.00004	0.00006
	C0	0.00120	0.00124	0.00128
	C0	-0.00009	-0.00009	-0.00009
	C0	0.00002	0.00003	0.00004
	C0	-0.00010	-0.00005	-0.00002

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI221X0P7H7H	A0	-0.00011	-0.00007	-0.00005
	A0	0.00014	0.00015	0.00015
	A0	-0.00016	-0.00016	-0.00016
	A0	0.00167	0.00171	0.00173
	A1	-0.00009	-0.00007	-0.00006
	A1	0.00020	0.00020	0.00020
	A1	-0.00016	-0.00016	-0.00016
	A1	0.00182	0.00184	0.00185
	B0	-0.00011	-0.00007	-0.00005
	B0	0.00014	0.00015	0.00015
	B0	-0.00009	-0.00009	-0.00008
	B0	0.00128	0.00131	0.00133
	B1	-0.00010	-0.00008	-0.00007
	B1	0.00020	0.00020	0.00020
	B1	-0.00009	-0.00009	-0.00008
	B1	0.00140	0.00142	0.00144
	C0	-0.00013	-0.00009	-0.00006
	C0	0.00020	0.00020	0.00020
	C0	-0.00002	-0.00002	-0.00002
	C0	0.00111	0.00116	0.00119

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X0P7H7H	**(A1 * B0 * C0 * !Y)**	-0.00000	-0.00000	0.00000
	(A1 * B0 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * C0 * !Y)	0.00000	0.00000	0.00001
	(A1 * B0 * C0 * !Y)	0.00034	0.00034	0.00034
	(A1 * B0 * !C0 * Y)	-0.00015	-0.00014	-0.00012
	(A1 * B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * !C0 * Y)	0.00025	0.00025	0.00025
	(A1 * !B0 * B1 * C0 * !Y)	-0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * C0 * !Y)	0.00034	0.00034	0.00034
	(A1 * !B0 * B1 * !C0 * Y)	-0.00015	-0.00014	-0.00012
	(A1 * !B0 * B1 * !C0 * Y)	-0.00003	-0.00002	-0.00002
	(A1 * !B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * !C0 * Y)	0.00025	0.00025	0.00025
	(A1 * !B0 * !B1 * C0 * Y)	-0.00015	-0.00014	-0.00012
	(A1 * !B0 * !B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !B1 * C0 * Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * !B1 * C0 * Y)	0.00025	0.00025	0.00025
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00015	-0.00014	-0.00012
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * !C0 * Y)	0.00025	0.00025	0.00025
	(!A1 * B0 * !C0 * Y)	-0.00017	-0.00017	-0.00017
	(!A1 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !C0 * Y)	0.00001	0.00002	0.00002
	(!A1 * B0 * !C0 * Y)	0.00020	0.00020	0.00020
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00017	-0.00017	-0.00017
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * B1 * !C0 * Y)	0.00020	0.00020	0.00020
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00017	-0.00017	-0.00017
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !B1 * C0 * Y)	0.00020	0.00020	0.00021
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00017	-0.00017	-0.00017
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00020	0.00021	0.00021

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X0P7H7H	**(A1 * B0 * C0 * !Y)**	-0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !Y)	0.00003	0.00003	0.00004
	(A1 * B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * !Y)	-0.00034	-0.00034	-0.00034
	(A1 * B0 * !C0 * Y)	0.00015	0.00015	0.00015
	(A1 * B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * Y)	-0.00025	-0.00025	-0.00025
	(A1 * !B0 * B1 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * B1 * C0 * !Y)	0.00003	0.00003	0.00004
	(A1 * !B0 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * B1 * C0 * !Y)	-0.00034	-0.00034	-0.00034
	(A1 * !B0 * B1 * !C0 * Y)	0.00014	0.00015	0.00015
	(A1 * !B0 * B1 * !C0 * Y)	0.00002	0.00002	0.00003
	(A1 * !B0 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * B1 * !C0 * Y)	-0.00025	-0.00025	-0.00025
	(A1 * !B0 * !B1 * C0 * Y)	0.00014	0.00015	0.00015
	(A1 * !B0 * !B1 * C0 * Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * C0 * Y)	-0.00025	-0.00025	-0.00025
	(A1 * !B0 * !B1 * !C0 * Y)	0.00015	0.00015	0.00015
	(A1 * !B0 * !B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00025	-0.00025	-0.00025
	(!A1 * B0 * !C0 * Y)	0.00017	0.00017	0.00017
	(!A1 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !C0 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * B0 * !C0 * Y)	-0.00020	-0.00019	-0.00017
	(!A1 * !B0 * B1 * !C0 * Y)	0.00017	0.00017	0.00017
	(!A1 * !B0 * B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00020	-0.00019	-0.00017
	(!A1 * !B0 * !B1 * C0 * Y)	0.00017	0.00017	0.00017
	(!A1 * !B0 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00021	-0.00019	-0.00017
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00017	0.00017	0.00017
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00021	-0.00019	-0.00017

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X0P7H7H	**(A0 * B0 * C0 * !Y)**	-0.00010	-0.00009	-0.00008
	(A0 * B0 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * B0 * C0 * !Y)	0.00030	0.00030	0.00031
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	-0.00010	-0.00009	-0.00008
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00001
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	0.00030	0.00030	0.00030
	(A0 * !B0 * B1 * C0 * !Y)	-0.00010	-0.00009	-0.00008
	(A0 * !B0 * B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * B1 * C0 * !Y)	0.00030	0.00030	0.00030
	(A0 * !B0 * !B1 * Y)	-0.00010	-0.00009	-0.00008
	(A0 * !B0 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !B1 * Y)	0.00030	0.00030	0.00030
	(!A0 * B0 * !C0 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !C0 * Y)	0.00001	0.00002	0.00002
	(!A0 * B0 * !C0 * Y)	0.00025	0.00025	0.00025
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * B1 * !C0 * Y)	0.00025	0.00025	0.00025
	(!A0 * !B0 * !B1 * C0 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * !B0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * !B1 * C0 * Y)	0.00025	0.00026	0.00026
	(!A0 * !B0 * !B1 * !C0 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * !B0 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * !B1 * !C0 * Y)	0.00025	0.00026	0.00026

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X0P7H7H	**(A0 * B0 * C0 * !Y)**	0.00010	0.00010	0.00010
	(A0 * B0 * C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * C0 * !Y)	-0.00001	-0.00000	-0.00000
	(A0 * B0 * C0 * !Y)	-0.00030	-0.00030	-0.00030
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	0.00010	0.00010	0.00010
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	-0.00030	-0.00030	-0.00030
	(A0 * !B0 * B1 * C0 * !Y)	0.00010	0.00010	0.00010
	(A0 * !B0 * B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * B1 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !B0 * B1 * C0 * !Y)	-0.00030	-0.00030	-0.00030
	(A0 * !B0 * !B1 * Y)	0.00010	0.00010	0.00010
	(A0 * !B0 * !B1 * Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !B1 * Y)	-0.00030	-0.00030	-0.00030
	(!A0 * B0 * !C0 * Y)	0.00012	0.00012	0.00013
	(!A0 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * !C0 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * B0 * !C0 * Y)	-0.00025	-0.00024	-0.00021
	(!A0 * !B0 * B1 * !C0 * Y)	0.00012	0.00013	0.00013
	(!A0 * !B0 * B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00025	-0.00024	-0.00022
	(!A0 * !B0 * !B1 * C0 * Y)	0.00012	0.00012	0.00012
	(!A0 * !B0 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * !B1 * C0 * Y)	-0.00026	-0.00024	-0.00022
	(!A0 * !B0 * !B1 * !C0 * Y)	0.00012	0.00012	0.00012
	(!A0 * !B0 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * !B1 * !C0 * Y)	-0.00026	-0.00024	-0.00022

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X0P7H7H	**(A0 * B1 * C0 * !Y)**	-0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * B1 * C0 * !Y)	0.00035	0.00035	0.00035
	(A0 * B1 * !C0 * Y)	-0.00014	-0.00013	-0.00012
	(A0 * B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(A0 * B1 * !C0 * Y)	0.00026	0.00026	0.00027
	(A0 * !B1 * !C0 * Y)	-0.00016	-0.00016	-0.00016
	(A0 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B1 * !C0 * Y)	0.00001	0.00001	0.00002
	(A0 * !B1 * !C0 * Y)	0.00023	0.00023	0.00023
	(!A0 * A1 * B1 * C0 * !Y)	-0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * B1 * C0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * B1 * C0 * !Y)	0.00034	0.00035	0.00035
	(!A0 * A1 * B1 * !C0 * Y)	-0.00014	-0.00013	-0.00012
	(!A0 * A1 * B1 * !C0 * Y)	-0.00003	-0.00002	-0.00002
	(!A0 * A1 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * !C0 * Y)	0.00026	0.00026	0.00027
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C0 * Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * !B1 * !C0 * Y)	0.00023	0.00023	0.00023
	(!A0 * !A1 * B1 * C0 * Y)	-0.00014	-0.00013	-0.00012
	(!A0 * !A1 * B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * C0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * B1 * C0 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00014	-0.00013	-0.00012
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * !C0 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B1 * !C0 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * !B1 * C0 * Y)	-0.00017	-0.00016	-0.00016
	(!A0 * !A1 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B1 * C0 * Y)	0.00004	0.00005	0.00005
	(!A0 * !A1 * !B1 * C0 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * !B1 * !C0 * Y)	-0.00017	-0.00016	-0.00016
	(!A0 * !A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B1 * !C0 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !B1 * !C0 * Y)	0.00007	0.00007	0.00007

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X0P7H7H	**(A0 * B1 * C0 * !Y)**	-0.00000	-0.00000	0.00000
	(A0 * B1 * C0 * !Y)	0.00003	0.00003	0.00003
	(A0 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * C0 * !Y)	-0.00035	-0.00035	-0.00034
	(A0 * B1 * !C0 * Y)	0.00014	0.00014	0.00014
	(A0 * B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(A0 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * !C0 * Y)	-0.00027	-0.00026	-0.00026
	(A0 * !B1 * !C0 * Y)	0.00016	0.00016	0.00017
	(A0 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B1 * !C0 * Y)	-0.00023	-0.00022	-0.00020
	(!A0 * A1 * B1 * C0 * !Y)	-0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * !Y)	0.00003	0.00003	0.00004
	(!A0 * A1 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B1 * C0 * !Y)	-0.00035	-0.00035	-0.00034
	(!A0 * A1 * B1 * !C0 * Y)	0.00014	0.00014	0.00014
	(!A0 * A1 * B1 * !C0 * Y)	0.00002	0.00002	0.00003
	(!A0 * A1 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B1 * !C0 * Y)	-0.00027	-0.00026	-0.00026
	(!A0 * A1 * !B1 * !C0 * Y)	0.00016	0.00016	0.00016
	(!A0 * A1 * !B1 * !C0 * Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00023	-0.00021	-0.00019
	(!A0 * !A1 * B1 * C0 * Y)	0.00014	0.00014	0.00014
	(!A0 * !A1 * B1 * C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * B1 * C0 * Y)	-0.00007	-0.00007	-0.00006
	(!A0 * !A1 * B1 * !C0 * Y)	0.00014	0.00014	0.00014
	(!A0 * !A1 * B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * !B1 * C0 * Y)	0.00017	0.00017	0.00017
	(!A0 * !A1 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B1 * C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !B1 * C0 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * !B1 * !C0 * Y)	0.00016	0.00016	0.00017
	(!A0 * !A1 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B1 * !C0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !B1 * !C0 * Y)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X0P7H7H	**(A0 * B0 * C0 * !Y)**	-0.00010	-0.00009	-0.00008
	(A0 * B0 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * C0 * !Y)	0.00000	0.00000	0.00001
	(A0 * B0 * C0 * !Y)	0.00029	0.00029	0.00029
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	-0.00012	-0.00012	-0.00010
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	0.00000	0.00001	0.00000
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	0.00026	0.00026	0.00026
	(A0 * !B0 * !C0 * Y)	-0.00015	-0.00015	-0.00015
	(A0 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !C0 * Y)	0.00022	0.00023	0.00023
	(!A0 * A1 * B0 * C0 * !Y)	-0.00010	-0.00009	-0.00008
	(!A0 * A1 * B0 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * C0 * !Y)	0.00029	0.00029	0.00029
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * !C0 * Y)	0.00023	0.00023	0.00023
	(!A0 * !A1 * B0 * C0 * Y)	-0.00013	-0.00012	-0.00011
	(!A0 * !A1 * B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * C0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * B0 * C0 * Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * B0 * !C0 * Y)	-0.00013	-0.00012	-0.00011
	(!A0 * !A1 * B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !C0 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B0 * !C0 * Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * !B0 * C0 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * C0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !B0 * C0 * Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * !B0 * !C0 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !A1 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * !C0 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !B0 * !C0 * Y)	0.00008	0.00008	0.00008

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X0P7H7H	**(A0 * B0 * C0 * !Y)**	0.00010	0.00010	0.00010
	(A0 * B0 * C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * !Y)	-0.00029	-0.00028	-0.00028
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	0.00012	0.00012	0.00012
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	-0.00026	-0.00026	-0.00026
	(A0 * !B0 * !C0 * Y)	0.00015	0.00015	0.00015
	(A0 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !C0 * Y)	-0.00023	-0.00021	-0.00019
	(!A0 * A1 * B0 * C0 * !Y)	0.00010	0.00010	0.00010
	(!A0 * A1 * B0 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * C0 * !Y)	-0.00029	-0.00028	-0.00028
	(!A0 * A1 * !B0 * !C0 * Y)	0.00015	0.00015	0.00015
	(!A0 * A1 * !B0 * !C0 * Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00023	-0.00021	-0.00019
	(!A0 * !A1 * B0 * C0 * Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * B0 * C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * B0 * C0 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * B0 * !C0 * Y)	0.00012	0.00013	0.00013
	(!A0 * !A1 * B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * !C0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B0 * !C0 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * !B0 * C0 * Y)	0.00015	0.00015	0.00015
	(!A0 * !A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00002
	(!A0 * !A1 * !B0 * C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !B0 * C0 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * !B0 * !C0 * Y)	0.00015	0.00015	0.00015
	(!A0 * !A1 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * !C0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !B0 * !C0 * Y)	-0.00008	-0.00008	-0.00008

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI221X0P7H7H	(A0 * !B0 * !B1 * Y)	-0.00027	-0.00027	-0.00026
	(A0 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * Y)	0.00002	0.00003	0.00002
	(A0 * !B0 * !B1 * Y)	0.00009	0.00010	0.00010
	(!A0 * !B0 * !B1 * Y)	-0.00027	-0.00027	-0.00027
	(!A0 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * !B1 * Y)	0.00002	0.00003	0.00003
	(!A0 * !B0 * !B1 * Y)	0.00009	0.00010	0.00010
	(!A0 * !A1 * B0 * Y)	-0.00027	-0.00027	-0.00026
	(!A0 * !A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B0 * Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * !B0 * B1 * Y)	-0.00027	-0.00027	-0.00027
	(!A0 * !A1 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !B0 * B1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !B0 * B1 * Y)	0.00008	0.00009	0.00009

Passive power(pJ) for C0 falling (conditional):

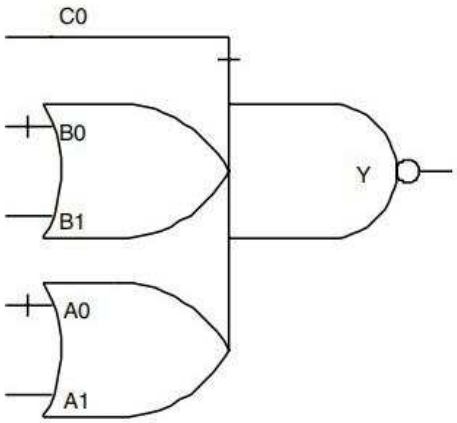
Cell Name	When	Power(pJ)		
		min	avg	max
OAI221X0P7H7H	(A0 * !B0 * !B1 * Y)	0.00027	0.00027	0.00027
	(A0 * !B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * !B1 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !B0 * !B1 * Y)	0.00027	0.00027	0.00027
	(!A0 * !B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * !B1 * Y)	-0.00010	-0.00010	-0.00009
	(!A0 * !A1 * B0 * Y)	0.00027	0.00027	0.00027
	(!A0 * !A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * Y)	-0.00002	-0.00003	-0.00002
	(!A0 * !A1 * B0 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * !B0 * B1 * Y)	0.00027	0.00027	0.00027
	(!A0 * !A1 * !B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * B1 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * !B0 * B1 * Y)	-0.00009	-0.00009	-0.00008

OAI221X1H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI221 cell provides the logical inverted AND of two OR groups and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT					OUTPUT
A0	A1	B0	B1	C0	Y
0	0	x	x	x	1
x	1	0	0	x	1
x	1	x	1	0	1
x	1	x	1	1	0
x	1	1	x	0	1
x	1	1	x	1	0
1	x	0	0	x	1
1	x	x	1	0	1
1	x	x	1	1	0
1	x	1	x	0	1
1	x	1	x	1	0

Footprint

Cell Name	Area
OAI221X1H7H	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	A1	B0	B1	C0	Y
OAI221X1H7H	0.00096	0.00084	0.00101	0.00093	0.00103	0.01963

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI221X1H7H	0.00000	0.01480	0.02031

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI221X1H7H	A0->Y (FR)	0.06720	0.24213	0.73965
	A1->Y (FR)	0.06920	0.24791	0.74921
	B0->Y (FR)	0.05725	0.22795	0.72647
	B1->Y (FR)	0.06091	0.23554	0.73494
	C0->Y (FR)	0.02544	0.14194	0.53386

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI221X1H7H	A0->Y (RF)	0.07041	0.24009	0.70609
	A1->Y (RF)	0.07417	0.24491	0.71108
	B0->Y (RF)	0.06450	0.23622	0.72771
	B1->Y (RF)	0.06942	0.24226	0.73334
	C0->Y (RF)	0.05733	0.22354	0.70873

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI221X1H7H	A0	0.00178	0.00184	0.00188
	A0	-0.00011	-0.00011	-0.00010
	A0	0.00019	0.00019	0.00019
	A0	-0.00001	0.00003	0.00005
	A1	0.00199	0.00201	0.00203
	A1	-0.00018	-0.00018	-0.00018
	A1	0.00019	0.00019	0.00020
	A1	-0.00005	-0.00003	-0.00001
	B0	0.00150	0.00154	0.00157
	B0	-0.00011	-0.00011	-0.00011
	B0	0.00010	0.00010	0.00010
	B0	-0.00002	0.00003	0.00005
	B1	0.00169	0.00172	0.00175
	B1	-0.00018	-0.00018	-0.00018
	B1	0.00010	0.00010	0.00010
	B1	-0.00002	0.00002	0.00005
	C0	0.00136	0.00140	0.00144
	C0	-0.00012	-0.00011	-0.00011
	C0	0.00003	0.00003	0.00004
	C0	-0.00009	-0.00004	0.00000

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI221X1H7H	A0	-0.00013	-0.00008	-0.00006
	A0	0.00018	0.00018	0.00018
	A0	-0.00019	-0.00019	-0.00018
	A0	0.00183	0.00187	0.00189
	A1	-0.00011	-0.00009	-0.00008
	A1	0.00024	0.00024	0.00024
	A1	-0.00019	-0.00019	-0.00019
	A1	0.00203	0.00205	0.00206
	B0	-0.00014	-0.00010	-0.00007
	B0	0.00018	0.00018	0.00018
	B0	-0.00010	-0.00010	-0.00010
	B0	0.00141	0.00145	0.00148
	B1	-0.00012	-0.00010	-0.00008
	B1	0.00024	0.00024	0.00024
	B1	-0.00010	-0.00010	-0.00010
	B1	0.00158	0.00161	0.00163
	C0	-0.00015	-0.00011	-0.00007
	C0	0.00024	0.00024	0.00024
	C0	-0.00003	-0.00003	-0.00002
	C0	0.00121	0.00127	0.00131

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X1H7H	**(A1 * B0 * C0 * !Y)**	-0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !Y)	-0.00004	-0.00004	-0.00004
	(A1 * B0 * C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * C0 * !Y)	0.00034	0.00034	0.00034
	(A1 * B0 * !C0 * Y)	-0.00015	-0.00014	-0.00013
	(A1 * B0 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * !C0 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !C0 * Y)	0.00025	0.00026	0.00026
	(A1 * !B0 * B1 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * B1 * C0 * !Y)	-0.00004	-0.00004	-0.00004
	(A1 * !B0 * B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * B1 * C0 * !Y)	0.00034	0.00034	0.00034
	(A1 * !B0 * B1 * !C0 * Y)	-0.00015	-0.00014	-0.00013
	(A1 * !B0 * B1 * !C0 * Y)	-0.00003	-0.00003	-0.00002
	(A1 * !B0 * B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * B1 * !C0 * Y)	0.00025	0.00026	0.00026
	(A1 * !B0 * !B1 * C0 * Y)	-0.00015	-0.00014	-0.00012
	(A1 * !B0 * !B1 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * !B1 * C0 * Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * !B1 * C0 * Y)	0.00025	0.00026	0.00026
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00015	-0.00014	-0.00013
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * !B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * !B1 * !C0 * Y)	0.00026	0.00026	0.00026
	(!A1 * B0 * !C0 * Y)	-0.00019	-0.00018	-0.00018
	(!A1 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !C0 * Y)	0.00001	0.00002	0.00002
	(!A1 * B0 * !C0 * Y)	0.00020	0.00020	0.00021
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00019	-0.00018	-0.00018
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C0 * Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * B1 * !C0 * Y)	0.00020	0.00020	0.00021
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00018	-0.00018	-0.00018
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !B1 * C0 * Y)	0.00020	0.00021	0.00021
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00018	-0.00018	-0.00018
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00020	0.00021	0.00021

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X1H7H	**(A1 * B0 * C0 * !Y)**	-0.00000	-0.00000	0.00000
	(A1 * B0 * C0 * !Y)	0.00004	0.00004	0.00004
	(A1 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * C0 * !Y)	-0.00034	-0.00034	-0.00033
	(A1 * B0 * !C0 * Y)	0.00015	0.00015	0.00015
	(A1 * B0 * !C0 * Y)	0.00003	0.00003	0.00003
	(A1 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !C0 * Y)	-0.00026	-0.00026	-0.00025
	(A1 * !B0 * B1 * C0 * !Y)	-0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * C0 * !Y)	0.00004	0.00004	0.00004
	(A1 * !B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * B1 * C0 * !Y)	-0.00034	-0.00034	-0.00034
	(A1 * !B0 * B1 * !C0 * Y)	0.00015	0.00015	0.00015
	(A1 * !B0 * B1 * !C0 * Y)	0.00002	0.00003	0.00003
	(A1 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * B1 * !C0 * Y)	-0.00026	-0.00026	-0.00025
	(A1 * !B0 * !B1 * C0 * Y)	0.00015	0.00015	0.00015
	(A1 * !B0 * !B1 * C0 * Y)	0.00003	0.00003	0.00003
	(A1 * !B0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * !B1 * C0 * Y)	-0.00026	-0.00026	-0.00025
	(A1 * !B0 * !B1 * !C0 * Y)	0.00015	0.00015	0.00015
	(A1 * !B0 * !B1 * !C0 * Y)	0.00003	0.00003	0.00003
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00026	-0.00026	-0.00025
	(!A1 * B0 * !C0 * Y)	0.00018	0.00018	0.00019
	(!A1 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !C0 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * B0 * !C0 * Y)	-0.00020	-0.00019	-0.00016
	(!A1 * !B0 * B1 * !C0 * Y)	0.00018	0.00018	0.00019
	(!A1 * !B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00020	-0.00019	-0.00017
	(!A1 * !B0 * !B1 * C0 * Y)	0.00018	0.00018	0.00018
	(!A1 * !B0 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00021	-0.00019	-0.00016
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00018	0.00018	0.00018
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00021	-0.00019	-0.00016

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X1H7H	**(A0 * B0 * C0 * !Y)**	-0.00012	-0.00011	-0.00009
	(A0 * B0 * C0 * !Y)	-0.00003	-0.00003	-0.00002
	(A0 * B0 * C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * B0 * C0 * !Y)	0.00031	0.00031	0.00032
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	-0.00012	-0.00011	-0.00009
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	0.00031	0.00031	0.00031
	(A0 * !B0 * B1 * C0 * !Y)	-0.00012	-0.00011	-0.00009
	(A0 * !B0 * B1 * C0 * !Y)	-0.00003	-0.00003	-0.00002
	(A0 * !B0 * B1 * C0 * !Y)	-0.00000	0.00000	0.00001
	(A0 * !B0 * B1 * C0 * !Y)	0.00031	0.00031	0.00032
	(A0 * !B0 * !B1 * Y)	-0.00012	-0.00011	-0.00009
	(A0 * !B0 * !B1 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * !B0 * !B1 * Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * !B1 * Y)	0.00031	0.00031	0.00031
	(!A0 * B0 * !C0 * Y)	-0.00015	-0.00015	-0.00014
	(!A0 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !C0 * Y)	0.00001	0.00002	0.00002
	(!A0 * B0 * !C0 * Y)	0.00026	0.00026	0.00027
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00015	-0.00015	-0.00014
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * B1 * !C0 * Y)	0.00001	0.00002	0.00002
	(!A0 * !B0 * B1 * !C0 * Y)	0.00026	0.00027	0.00027
	(!A0 * !B0 * !B1 * C0 * Y)	-0.00015	-0.00015	-0.00014
	(!A0 * !B0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * !B1 * C0 * Y)	0.00027	0.00027	0.00027
	(!A0 * !B0 * !B1 * !C0 * Y)	-0.00015	-0.00015	-0.00014
	(!A0 * !B0 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * !B1 * !C0 * Y)	0.00027	0.00027	0.00027

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X1H7H	**(A0 * B0 * C0 * !Y)**	0.00012	0.00012	0.00012
	(A0 * B0 * C0 * !Y)	0.00002	0.00003	0.00003
	(A0 * B0 * C0 * !Y)	-0.00001	-0.00000	0.00000
	(A0 * B0 * C0 * !Y)	-0.00031	-0.00031	-0.00031
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	0.00012	0.00012	0.00012
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	0.00003	0.00003	0.00003
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	-0.00031	-0.00031	-0.00031
	(A0 * !B0 * B1 * C0 * !Y)	0.00012	0.00012	0.00012
	(A0 * !B0 * B1 * C0 * !Y)	0.00002	0.00003	0.00003
	(A0 * !B0 * B1 * C0 * !Y)	-0.00001	-0.00000	0.00000
	(A0 * !B0 * B1 * C0 * !Y)	-0.00031	-0.00031	-0.00031
	(A0 * !B0 * !B1 * Y)	0.00012	0.00012	0.00012
	(A0 * !B0 * !B1 * Y)	0.00003	0.00003	0.00003
	(A0 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * !B1 * Y)	-0.00031	-0.00031	-0.00031
	(!A0 * B0 * !C0 * Y)	0.00014	0.00015	0.00015
	(!A0 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * !C0 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * B0 * !C0 * Y)	-0.00026	-0.00025	-0.00022
	(!A0 * !B0 * B1 * !C0 * Y)	0.00014	0.00015	0.00015
	(!A0 * !B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00027	-0.00025	-0.00023
	(!A0 * !B0 * !B1 * C0 * Y)	0.00014	0.00015	0.00015
	(!A0 * !B0 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * !B1 * C0 * Y)	-0.00027	-0.00025	-0.00023
	(!A0 * !B0 * !B1 * !C0 * Y)	0.00014	0.00015	0.00015
	(!A0 * !B0 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * !B1 * !C0 * Y)	-0.00027	-0.00025	-0.00023

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X1H7H	**(A0 * B1 * C0 * !Y)**	-0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * B1 * C0 * !Y)	0.00036	0.00036	0.00037
	(A0 * B1 * !C0 * Y)	-0.00017	-0.00016	-0.00014
	(A0 * B1 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(A0 * B1 * !C0 * Y)	0.00027	0.00027	0.00027
	(A0 * !B1 * !C0 * Y)	-0.00021	-0.00020	-0.00020
	(A0 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(A0 * !B1 * !C0 * Y)	0.00023	0.00023	0.00023
	(!A0 * A1 * B1 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * B1 * C0 * !Y)	-0.00005	-0.00004	-0.00004
	(!A0 * A1 * B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * B1 * C0 * !Y)	0.00036	0.00036	0.00037
	(!A0 * A1 * B1 * !C0 * Y)	-0.00017	-0.00016	-0.00014
	(!A0 * A1 * B1 * !C0 * Y)	-0.00004	-0.00003	-0.00003
	(!A0 * A1 * B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * B1 * !C0 * Y)	0.00026	0.00027	0.00027
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00021	-0.00020	-0.00020
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B1 * !C0 * Y)	0.00023	0.00023	0.00023
	(!A0 * !A1 * B1 * C0 * Y)	-0.00017	-0.00016	-0.00014
	(!A0 * !A1 * B1 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B1 * C0 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B1 * C0 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00017	-0.00016	-0.00015
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B1 * !C0 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * B1 * !C0 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !B1 * C0 * Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !A1 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B1 * C0 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !B1 * C0 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !B1 * !C0 * Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B1 * !C0 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !B1 * !C0 * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X1H7H	**(A0 * B1 * C0 * !Y)**	-0.00000	-0.00000	0.00000
	(A0 * B1 * C0 * !Y)	0.00004	0.00005	0.00005
	(A0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * B1 * C0 * !Y)	-0.00036	-0.00036	-0.00036
	(A0 * B1 * !C0 * Y)	0.00017	0.00017	0.00017
	(A0 * B1 * !C0 * Y)	0.00003	0.00003	0.00003
	(A0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B1 * !C0 * Y)	-0.00027	-0.00027	-0.00026
	(A0 * !B1 * !C0 * Y)	0.00020	0.00020	0.00021
	(A0 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B1 * !C0 * Y)	-0.00023	-0.00022	-0.00019
	(!A0 * A1 * B1 * C0 * !Y)	-0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * !Y)	0.00005	0.00005	0.00005
	(!A0 * A1 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * B1 * C0 * !Y)	-0.00037	-0.00036	-0.00036
	(!A0 * A1 * B1 * !C0 * Y)	0.00017	0.00017	0.00017
	(!A0 * A1 * B1 * !C0 * Y)	0.00003	0.00003	0.00004
	(!A0 * A1 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * B1 * !C0 * Y)	-0.00027	-0.00027	-0.00026
	(!A0 * A1 * !B1 * !C0 * Y)	0.00020	0.00020	0.00021
	(!A0 * A1 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00023	-0.00021	-0.00019
	(!A0 * !A1 * B1 * C0 * Y)	0.00017	0.00017	0.00017
	(!A0 * !A1 * B1 * C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B1 * C0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B1 * C0 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * B1 * !C0 * Y)	0.00017	0.00017	0.00017
	(!A0 * !A1 * B1 * !C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !B1 * C0 * Y)	0.00021	0.00021	0.00021
	(!A0 * !A1 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B1 * C0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !B1 * C0 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !B1 * !C0 * Y)	0.00021	0.00021	0.00021
	(!A0 * !A1 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B1 * !C0 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !B1 * !C0 * Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X1H7H	**(A0 * B0 * C0 * !Y)**	-0.00012	-0.00011	-0.00009
	(A0 * B0 * C0 * !Y)	-0.00003	-0.00003	-0.00002
	(A0 * B0 * C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * B0 * C0 * !Y)	0.00031	0.00031	0.00031
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	-0.00015	-0.00014	-0.00012
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	0.00000	0.00001	0.00001
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	0.00027	0.00028	0.00028
	(A0 * !B0 * !C0 * Y)	-0.00018	-0.00018	-0.00018
	(A0 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * !C0 * Y)	0.00024	0.00024	0.00024
	(!A0 * A1 * B0 * C0 * !Y)	-0.00012	-0.00011	-0.00009
	(!A0 * A1 * B0 * C0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * A1 * B0 * C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * B0 * C0 * !Y)	0.00031	0.00031	0.00031
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B0 * !C0 * Y)	0.00024	0.00024	0.00024
	(!A0 * !A1 * B0 * C0 * Y)	-0.00015	-0.00014	-0.00013
	(!A0 * !A1 * B0 * C0 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * B0 * C0 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B0 * C0 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * B0 * !C0 * Y)	-0.00015	-0.00014	-0.00013
	(!A0 * !A1 * B0 * !C0 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * B0 * !C0 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * B0 * !C0 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * !B0 * C0 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * C0 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !B0 * C0 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * !B0 * !C0 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !A1 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * !C0 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !B0 * !C0 * Y)	0.00007	0.00007	0.00007

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X1H7H	**(A0 * B0 * C0 * !Y)**	0.00012	0.00012	0.00012
	(A0 * B0 * C0 * !Y)	0.00002	0.00003	0.00003
	(A0 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * C0 * !Y)	-0.00031	-0.00031	-0.00031
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	0.00015	0.00015	0.00015
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	0.00003	0.00003	0.00003
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	-0.00028	-0.00028	-0.00027
	(A0 * !B0 * !C0 * Y)	0.00018	0.00018	0.00018
	(A0 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * !C0 * Y)	-0.00024	-0.00023	-0.00020
	(!A0 * A1 * B0 * C0 * !Y)	0.00012	0.00012	0.00012
	(!A0 * A1 * B0 * C0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * A1 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * B0 * C0 * !Y)	-0.00031	-0.00031	-0.00031
	(!A0 * A1 * !B0 * !C0 * Y)	0.00018	0.00018	0.00018
	(!A0 * A1 * !B0 * !C0 * Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00024	-0.00022	-0.00020
	(!A0 * !A1 * B0 * C0 * Y)	0.00015	0.00015	0.00016
	(!A0 * !A1 * B0 * C0 * Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * B0 * C0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B0 * C0 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * B0 * !C0 * Y)	0.00015	0.00015	0.00015
	(!A0 * !A1 * B0 * !C0 * Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * B0 * !C0 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * B0 * !C0 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * !B0 * C0 * Y)	0.00018	0.00018	0.00018
	(!A0 * !A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * C0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !B0 * C0 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * !B0 * !C0 * Y)	0.00018	0.00018	0.00018
	(!A0 * !A1 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * !C0 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !B0 * !C0 * Y)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI221X1H7H	(A0 * !B0 * !B1 * Y)	-0.00031	-0.00030	-0.00030
	(A0 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * Y)	0.00003	0.00003	0.00003
	(A0 * !B0 * !B1 * Y)	0.00006	0.00006	0.00006
	(!A0 * !B0 * !B1 * Y)	-0.00031	-0.00030	-0.00030
	(!A0 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !B0 * !B1 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * B0 * Y)	-0.00030	-0.00030	-0.00030
	(!A0 * !A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B0 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !B0 * B1 * Y)	-0.00031	-0.00030	-0.00030
	(!A0 * !A1 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * B1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !B0 * B1 * Y)	0.00005	0.00005	0.00005

Passive power(pJ) for C0 falling (conditional):

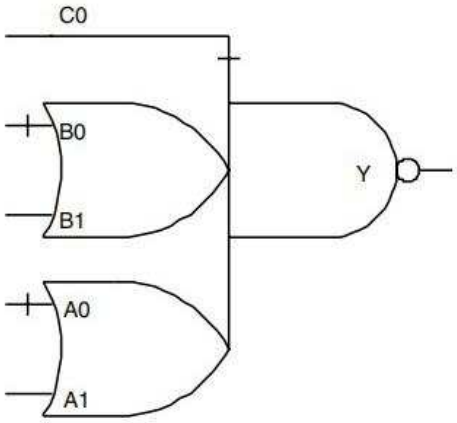
Cell Name	When	Power(pJ)		
		min	avg	max
OAI221X1H7H	(A0 * !B0 * !B1 * Y)	0.00030	0.00030	0.00031
	(A0 * !B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * !B0 * !B1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !B0 * !B1 * Y)	0.00030	0.00030	0.00031
	(!A0 * !B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !B0 * !B1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * B0 * Y)	0.00030	0.00030	0.00031
	(!A0 * !A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !B0 * B1 * Y)	0.00030	0.00030	0.00031
	(!A0 * !A1 * !B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !B0 * B1 * Y)	-0.00005	-0.00005	-0.00005

OAI221X1P4H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI221 cell provides the logical inverted AND of two OR groups and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT					OUTPUT
A0	A1	B0	B1	C0	Y
0	0	x	x	x	1
x	1	0	0	x	1
x	1	x	1	0	1
x	1	x	1	1	0
x	1	1	x	0	1
x	1	1	x	1	0
1	x	0	0	x	1
1	x	x	1	0	1
1	x	x	1	1	0
1	x	1	x	0	1
1	x	1	x	1	0

Footprint

Cell Name	Area
OAI221X1P4H7H	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	A1	B0	B1	C0	Y
OAI221X1P4H7H	0.00106	0.00092	0.00104	0.00098	0.00112	0.02244

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI221X1P4H7H	0.00000	0.01852	0.02373

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI221X1P4H7H	A0->Y (FR)	0.06204	0.23788	0.74028
	A1->Y (FR)	0.06586	0.24578	0.75055
	B0->Y (FR)	0.05289	0.22467	0.72794
	B1->Y (FR)	0.05668	0.23248	0.73667
	C0->Y (FR)	0.02351	0.14025	0.53519

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI221X1P4H7H	A0->Y (RF)	0.06793	0.23997	0.71377
	A1->Y (RF)	0.07170	0.24500	0.71930
	B0->Y (RF)	0.06086	0.23472	0.73411
	B1->Y (RF)	0.06590	0.24087	0.73902
	C0->Y (RF)	0.05406	0.22211	0.71258

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI221X1P4H7H	A0	0.00194	0.00201	0.00205
	A0	-0.00013	-0.00013	-0.00013
	A0	0.00022	0.00022	0.00022
	A0	-0.00003	0.00001	0.00004
	A1	0.00217	0.00221	0.00224
	A1	-0.00021	-0.00021	-0.00020
	A1	0.00022	0.00022	0.00022
	A1	-0.00005	-0.00002	-0.00000
	B0	0.00159	0.00164	0.00168
	B0	-0.00013	-0.00013	-0.00013
	B0	0.00011	0.00012	0.00012
	B0	-0.00003	0.00001	0.00004
	B1	0.00183	0.00187	0.00190
	B1	-0.00021	-0.00021	-0.00020
	B1	0.00012	0.00012	0.00013
	B1	-0.00003	0.00002	0.00004
	C0	0.00147	0.00152	0.00156
	C0	-0.00013	-0.00013	-0.00013
	C0	0.00002	0.00003	0.00004
	C0	-0.00013	-0.00007	-0.00003

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI221X1P4H7H	A0	-0.00014	-0.00009	-0.00007
	A0	0.00021	0.00021	0.00021
	A0	-0.00022	-0.00022	-0.00021
	A0	0.00201	0.00206	0.00208
	A1	-0.00012	-0.00010	-0.00009
	A1	0.00027	0.00028	0.00028
	A1	-0.00022	-0.00022	-0.00021
	A1	0.00222	0.00224	0.00225
	B0	-0.00014	-0.00010	-0.00007
	B0	0.00020	0.00021	0.00021
	B0	-0.00012	-0.00012	-0.00011
	B0	0.00153	0.00158	0.00160
	B1	-0.00014	-0.00011	-0.00009
	B1	0.00028	0.00028	0.00028
	B1	-0.00013	-0.00012	-0.00012
	B1	0.00172	0.00174	0.00176
	C0	-0.00016	-0.00012	-0.00008
	C0	0.00028	0.00028	0.00028
	C0	-0.00003	-0.00003	-0.00002
	C0	0.00133	0.00140	0.00145

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X1P4H7H	**(A1 * B0 * C0 * !Y)**	-0.00000	-0.00000	0.00000
	(A1 * B0 * C0 * !Y)	-0.00005	-0.00005	-0.00005
	(A1 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * C0 * !Y)	0.00038	0.00038	0.00039
	(A1 * B0 * !C0 * Y)	-0.00018	-0.00017	-0.00015
	(A1 * B0 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * !C0 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !C0 * Y)	0.00028	0.00028	0.00028
	(A1 * !B0 * B1 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * B1 * C0 * !Y)	-0.00005	-0.00005	-0.00004
	(A1 * !B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * B1 * C0 * !Y)	0.00038	0.00038	0.00039
	(A1 * !B0 * B1 * !C0 * Y)	-0.00018	-0.00017	-0.00015
	(A1 * !B0 * B1 * !C0 * Y)	-0.00004	-0.00003	-0.00003
	(A1 * !B0 * B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * B1 * !C0 * Y)	0.00028	0.00028	0.00028
	(A1 * !B0 * !B1 * C0 * Y)	-0.00018	-0.00017	-0.00015
	(A1 * !B0 * !B1 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * !B1 * C0 * Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * !B1 * C0 * Y)	0.00028	0.00028	0.00028
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00018	-0.00017	-0.00015
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * !C0 * Y)	0.00028	0.00028	0.00028
	(!A1 * B0 * !C0 * Y)	-0.00022	-0.00021	-0.00021
	(!A1 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !C0 * Y)	0.00002	0.00002	0.00003
	(!A1 * B0 * !C0 * Y)	0.00022	0.00022	0.00022
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00022	-0.00021	-0.00021
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C0 * Y)	0.00002	0.00002	0.00003
	(!A1 * !B0 * B1 * !C0 * Y)	0.00022	0.00022	0.00022
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00021	-0.00021	-0.00021
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !B1 * C0 * Y)	0.00022	0.00023	0.00023
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00022	-0.00021	-0.00021
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00022	0.00022	0.00023

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X1P4H7H	**(A1 * B0 * C0 * !Y)**	-0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !Y)	0.00005	0.00005	0.00005
	(A1 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * C0 * !Y)	-0.00039	-0.00038	-0.00038
	(A1 * B0 * !C0 * Y)	0.00018	0.00018	0.00018
	(A1 * B0 * !C0 * Y)	0.00003	0.00003	0.00003
	(A1 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !C0 * Y)	-0.00028	-0.00028	-0.00028
	(A1 * !B0 * B1 * C0 * !Y)	-0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * C0 * !Y)	0.00005	0.00005	0.00005
	(A1 * !B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * B1 * C0 * !Y)	-0.00039	-0.00038	-0.00038
	(A1 * !B0 * B1 * !C0 * Y)	0.00018	0.00018	0.00018
	(A1 * !B0 * B1 * !C0 * Y)	0.00003	0.00003	0.00004
	(A1 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * B1 * !C0 * Y)	-0.00028	-0.00028	-0.00027
	(A1 * !B0 * !B1 * C0 * Y)	0.00018	0.00018	0.00018
	(A1 * !B0 * !B1 * C0 * Y)	0.00003	0.00003	0.00003
	(A1 * !B0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * !B1 * C0 * Y)	-0.00028	-0.00028	-0.00028
	(A1 * !B0 * !B1 * !C0 * Y)	0.00018	0.00018	0.00018
	(A1 * !B0 * !B1 * !C0 * Y)	0.00003	0.00003	0.00003
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00028	-0.00028	-0.00028
	(!A1 * B0 * !C0 * Y)	0.00021	0.00021	0.00022
	(!A1 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !C0 * Y)	-0.00003	-0.00002	-0.00002
	(!A1 * B0 * !C0 * Y)	-0.00022	-0.00020	-0.00018
	(!A1 * !B0 * B1 * !C0 * Y)	0.00021	0.00021	0.00022
	(!A1 * !B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00003	-0.00002	-0.00002
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00022	-0.00020	-0.00018
	(!A1 * !B0 * !B1 * C0 * Y)	0.00021	0.00021	0.00022
	(!A1 * !B0 * !B1 * C0 * Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00023	-0.00021	-0.00018
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00021	0.00021	0.00022
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00023	-0.00021	-0.00018

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X1P4H7H	**(A0 * B0 * C0 * !Y)**	-0.00014	-0.00013	-0.00011
	(A0 * B0 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * C0 * !Y)	0.00033	0.00033	0.00033
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	-0.00014	-0.00013	-0.00011
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	0.00032	0.00032	0.00033
	(A0 * !B0 * B1 * C0 * !Y)	-0.00014	-0.00013	-0.00011
	(A0 * !B0 * B1 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * !B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * B1 * C0 * !Y)	0.00032	0.00033	0.00033
	(A0 * !B0 * !B1 * Y)	-0.00014	-0.00013	-0.00011
	(A0 * !B0 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * !B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * Y)	0.00032	0.00032	0.00033
	(!A0 * B0 * !C0 * Y)	-0.00017	-0.00017	-0.00017
	(!A0 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !C0 * Y)	0.00001	0.00002	0.00002
	(!A0 * B0 * !C0 * Y)	0.00027	0.00027	0.00027
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !B0 * B1 * !C0 * Y)	0.00001	0.00002	0.00002
	(!A0 * !B0 * B1 * !C0 * Y)	0.00027	0.00027	0.00027
	(!A0 * !B0 * !B1 * C0 * Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !B0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * !B1 * C0 * Y)	0.00027	0.00027	0.00027
	(!A0 * !B0 * !B1 * !C0 * Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !B0 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * !B1 * !C0 * Y)	0.00027	0.00027	0.00027

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X1P4H7H	**(A0 * B0 * C0 * !Y)**	0.00014	0.00014	0.00014
	(A0 * B0 * C0 * !Y)	0.00003	0.00003	0.00003
	(A0 * B0 * C0 * !Y)	-0.00001	-0.00001	0.00000
	(A0 * B0 * C0 * !Y)	-0.00033	-0.00032	-0.00032
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	0.00014	0.00014	0.00014
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	0.00003	0.00003	0.00003
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	-0.00033	-0.00032	-0.00032
	(A0 * !B0 * B1 * C0 * !Y)	0.00014	0.00014	0.00014
	(A0 * !B0 * B1 * C0 * !Y)	0.00003	0.00003	0.00003
	(A0 * !B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * B1 * C0 * !Y)	-0.00033	-0.00032	-0.00032
	(A0 * !B0 * !B1 * Y)	0.00013	0.00014	0.00014
	(A0 * !B0 * !B1 * Y)	0.00003	0.00003	0.00003
	(A0 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * Y)	-0.00033	-0.00032	-0.00032
	(!A0 * B0 * !C0 * Y)	0.00017	0.00017	0.00017
	(!A0 * B0 * !C0 * Y)	0.00001	0.00001	0.00002
	(!A0 * B0 * !C0 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * B0 * !C0 * Y)	-0.00027	-0.00025	-0.00022
	(!A0 * !B0 * B1 * !C0 * Y)	0.00017	0.00017	0.00017
	(!A0 * !B0 * B1 * !C0 * Y)	0.00001	0.00002	0.00002
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00027	-0.00025	-0.00022
	(!A0 * !B0 * !B1 * C0 * Y)	0.00017	0.00017	0.00017
	(!A0 * !B0 * !B1 * C0 * Y)	0.00001	0.00001	0.00002
	(!A0 * !B0 * !B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * !B1 * C0 * Y)	-0.00027	-0.00026	-0.00023
	(!A0 * !B0 * !B1 * !C0 * Y)	0.00017	0.00017	0.00017
	(!A0 * !B0 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * !B1 * !C0 * Y)	-0.00027	-0.00025	-0.00023

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X1P4H7H	**(A0 * B1 * C0 * !Y)**	-0.00000	-0.00000	0.00000
	(A0 * B1 * C0 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B1 * C0 * !Y)	0.00038	0.00038	0.00039
	(A0 * B1 * !C0 * Y)	-0.00017	-0.00016	-0.00014
	(A0 * B1 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B1 * !C0 * Y)	0.00029	0.00029	0.00029
	(A0 * !B1 * !C0 * Y)	-0.00021	-0.00021	-0.00021
	(A0 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(A0 * !B1 * !C0 * Y)	0.00025	0.00025	0.00025
	(!A0 * A1 * B1 * C0 * !Y)	-0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * !Y)	-0.00005	-0.00005	-0.00004
	(!A0 * A1 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B1 * C0 * !Y)	0.00038	0.00038	0.00039
	(!A0 * A1 * B1 * !C0 * Y)	-0.00017	-0.00016	-0.00014
	(!A0 * A1 * B1 * !C0 * Y)	-0.00004	-0.00003	-0.00003
	(!A0 * A1 * B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * B1 * !C0 * Y)	0.00028	0.00029	0.00029
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00021	-0.00021	-0.00021
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B1 * !C0 * Y)	0.00025	0.00025	0.00025
	(!A0 * !A1 * B1 * C0 * Y)	-0.00018	-0.00016	-0.00014
	(!A0 * !A1 * B1 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B1 * C0 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * B1 * C0 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00018	-0.00016	-0.00014
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B1 * !C0 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * B1 * !C0 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !B1 * C0 * Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !A1 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B1 * C0 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !B1 * C0 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !B1 * !C0 * Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B1 * !C0 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * !B1 * !C0 * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X1P4H7H	**(A0 * B1 * C0 * !Y)**	-0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !Y)	0.00005	0.00005	0.00005
	(A0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * C0 * !Y)	-0.00039	-0.00038	-0.00038
	(A0 * B1 * !C0 * Y)	0.00017	0.00017	0.00017
	(A0 * B1 * !C0 * Y)	0.00003	0.00003	0.00003
	(A0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * !C0 * Y)	-0.00029	-0.00029	-0.00029
	(A0 * !B1 * !C0 * Y)	0.00021	0.00021	0.00021
	(A0 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B1 * !C0 * Y)	-0.00025	-0.00023	-0.00021
	(!A0 * A1 * B1 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * B1 * C0 * !Y)	0.00005	0.00005	0.00005
	(!A0 * A1 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * B1 * C0 * !Y)	-0.00039	-0.00038	-0.00038
	(!A0 * A1 * B1 * !C0 * Y)	0.00017	0.00017	0.00017
	(!A0 * A1 * B1 * !C0 * Y)	0.00003	0.00003	0.00004
	(!A0 * A1 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * B1 * !C0 * Y)	-0.00029	-0.00029	-0.00028
	(!A0 * A1 * !B1 * !C0 * Y)	0.00021	0.00021	0.00021
	(!A0 * A1 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00025	-0.00023	-0.00021
	(!A0 * !A1 * B1 * C0 * Y)	0.00018	0.00018	0.00018
	(!A0 * !A1 * B1 * C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B1 * C0 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * B1 * C0 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * B1 * !C0 * Y)	0.00017	0.00018	0.00018
	(!A0 * !A1 * B1 * !C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !B1 * C0 * Y)	0.00021	0.00021	0.00021
	(!A0 * !A1 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B1 * C0 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !B1 * C0 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !B1 * !C0 * Y)	0.00021	0.00021	0.00021
	(!A0 * !A1 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B1 * !C0 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * !B1 * !C0 * Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X1P4H7H	**(A0 * B0 * C0 * !Y)**	-0.00014	-0.00013	-0.00011
	(A0 * B0 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * C0 * !Y)	0.00032	0.00032	0.00032
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	-0.00016	-0.00015	-0.00013
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	0.00029	0.00029	0.00029
	(A0 * !B0 * !C0 * Y)	-0.00020	-0.00020	-0.00019
	(A0 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * !C0 * Y)	0.00025	0.00025	0.00025
	(!A0 * A1 * B0 * C0 * !Y)	-0.00014	-0.00013	-0.00011
	(!A0 * A1 * B0 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * C0 * !Y)	0.00032	0.00032	0.00032
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00020	-0.00020	-0.00020
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * A1 * !B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B0 * !C0 * Y)	0.00025	0.00025	0.00025
	(!A0 * !A1 * B0 * C0 * Y)	-0.00017	-0.00015	-0.00014
	(!A0 * !A1 * B0 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B0 * C0 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B0 * C0 * Y)	0.00007	0.00007	0.00008
	(!A0 * !A1 * B0 * !C0 * Y)	-0.00017	-0.00015	-0.00013
	(!A0 * !A1 * B0 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B0 * !C0 * Y)	0.00006	0.00006	0.00007
	(!A0 * !A1 * B0 * !C0 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * !B0 * C0 * Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * C0 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !B0 * C0 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * !B0 * !C0 * Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !A1 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * !C0 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * !B0 * !C0 * Y)	0.00007	0.00007	0.00007

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X1P4H7H	**(A0 * B0 * C0 * !Y)**	0.00014	0.00014	0.00014
	(A0 * B0 * C0 * !Y)	0.00003	0.00003	0.00003
	(A0 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * C0 * !Y)	-0.00032	-0.00032	-0.00032
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	0.00016	0.00016	0.00016
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	0.00003	0.00003	0.00003
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	-0.00029	-0.00029	-0.00029
	(A0 * !B0 * !C0 * Y)	0.00020	0.00020	0.00020
	(A0 * !B0 * !C0 * Y)	0.00001	0.00001	0.00002
	(A0 * !B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * !C0 * Y)	-0.00025	-0.00024	-0.00021
	(!A0 * A1 * B0 * C0 * !Y)	0.00014	0.00014	0.00014
	(!A0 * A1 * B0 * C0 * !Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * C0 * !Y)	-0.00032	-0.00032	-0.00031
	(!A0 * A1 * !B0 * !C0 * Y)	0.00020	0.00020	0.00020
	(!A0 * A1 * !B0 * !C0 * Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00025	-0.00023	-0.00021
	(!A0 * !A1 * B0 * C0 * Y)	0.00017	0.00017	0.00017
	(!A0 * !A1 * B0 * C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B0 * C0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B0 * C0 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * B0 * !C0 * Y)	0.00016	0.00016	0.00017
	(!A0 * !A1 * B0 * !C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B0 * !C0 * Y)	-0.00007	-0.00006	-0.00006
	(!A0 * !A1 * B0 * !C0 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * !B0 * C0 * Y)	0.00020	0.00020	0.00020
	(!A0 * !A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * C0 * Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !A1 * !B0 * C0 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * !B0 * !C0 * Y)	0.00020	0.00020	0.00020
	(!A0 * !A1 * !B0 * !C0 * Y)	0.00001	0.00001	0.00002
	(!A0 * !A1 * !B0 * !C0 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * !B0 * !C0 * Y)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI221X1P4H7H	(A0 * !B0 * !B1 * Y)	-0.00033	-0.00032	-0.00032
	(A0 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * Y)	0.00003	0.00003	0.00003
	(A0 * !B0 * !B1 * Y)	0.00009	0.00009	0.00009
	(!A0 * !B0 * !B1 * Y)	-0.00032	-0.00032	-0.00032
	(!A0 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * !B1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !B0 * !B1 * Y)	0.00009	0.00009	0.00009
	(!A0 * !A1 * B0 * Y)	-0.00032	-0.00032	-0.00032
	(!A0 * !A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * B0 * Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * !B0 * B1 * Y)	-0.00032	-0.00032	-0.00032
	(!A0 * !A1 * !B0 * B1 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * B1 * Y)	0.00003	0.00004	0.00004
	(!A0 * !A1 * !B0 * B1 * Y)	0.00007	0.00008	0.00008

Passive power(pJ) for C0 falling (conditional):

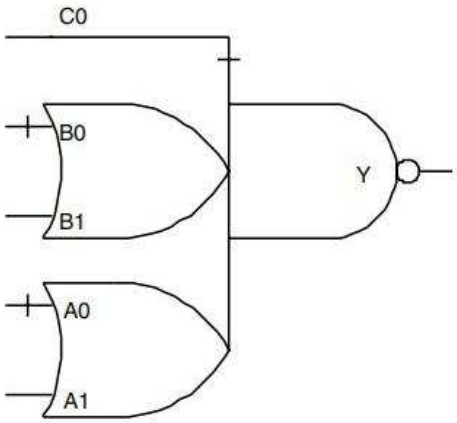
Cell Name	When	Power(pJ)		
		min	avg	max
OAI221X1P4H7H	(A0 * !B0 * !B1 * Y)	0.00032	0.00032	0.00033
	(A0 * !B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * !B0 * !B1 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !B0 * !B1 * Y)	0.00032	0.00032	0.00033
	(!A0 * !B0 * !B1 * Y)	0.00001	0.00001	0.00002
	(!A0 * !B0 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !B0 * !B1 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * B0 * Y)	0.00032	0.00032	0.00033
	(!A0 * !A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B0 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * !B0 * B1 * Y)	0.00032	0.00032	0.00033
	(!A0 * !A1 * !B0 * B1 * Y)	0.00001	0.00001	0.00002
	(!A0 * !A1 * !B0 * B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !B0 * B1 * Y)	-0.00008	-0.00008	-0.00007

OAI221X2H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI221 cell provides the logical inverted AND of two OR groups and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT					OUTPUT
A0	A1	B0	B1	C0	Y
0	0	x	x	x	1
x	1	0	0	x	1
x	1	x	1	0	1
x	1	x	1	1	0
x	1	1	x	0	1
x	1	1	x	1	0
1	x	0	0	x	1
1	x	x	1	0	1
1	x	x	1	1	0
1	x	1	x	0	1
1	x	1	x	1	0

Footprint

Cell Name	Area
OAI221X2H7H	3.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	A1	B0	B1	C0	Y
OAI221X2H7H	0.00117	0.00100	0.00122	0.00110	0.00125	0.02594

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI221X2H7H	0.00000	0.02551	0.03793

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI221X2H7H	A0->Y (FR)	0.06140	0.23832	0.74351
	A1->Y (FR)	0.06331	0.24431	0.75272
	B0->Y (FR)	0.05175	0.22422	0.72963
	B1->Y (FR)	0.05467	0.23145	0.73925
	C0->Y (FR)	0.02281	0.13992	0.53659

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI221X2H7H	A0->Y (RF)	0.06452	0.23508	0.70660
	A1->Y (RF)	0.06843	0.24013	0.71190
	B0->Y (RF)	0.05883	0.23085	0.72681
	B1->Y (RF)	0.06287	0.23612	0.73039
	C0->Y (RF)	0.05194	0.21823	0.70566

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI221X2H7H	A0	0.00220	0.00230	0.00234
	A0	-0.00016	-0.00016	-0.00016
	A0	0.00027	0.00027	0.00027
	A0	-0.00006	-0.00001	0.00002
	A1	0.00249	0.00253	0.00255
	A1	-0.00025	-0.00025	-0.00025
	A1	0.00027	0.00027	0.00027
	A1	-0.00008	-0.00005	-0.00003
	B0	0.00183	0.00190	0.00195
	B0	-0.00016	-0.00016	-0.00015
	B0	0.00014	0.00014	0.00015
	B0	-0.00008	-0.00002	0.00002
	B1	0.00210	0.00215	0.00218
	B1	-0.00025	-0.00025	-0.00025
	B1	0.00014	0.00014	0.00016
	B1	-0.00006	-0.00002	0.00001
	C0	0.00172	0.00177	0.00182
	C0	-0.00016	-0.00016	-0.00015
	C0	0.00004	0.00004	0.00005
	C0	-0.00015	-0.00009	-0.00004

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI221X2H7H	A0	-0.00017	-0.00011	-0.00008
	A0	0.00025	0.00025	0.00025
	A0	-0.00026	-0.00026	-0.00026
	A0	0.00231	0.00237	0.00239
	A1	-0.00015	-0.00012	-0.00011
	A1	0.00033	0.00034	0.00034
	A1	-0.00026	-0.00026	-0.00026
	A1	0.00255	0.00257	0.00259
	B0	-0.00018	-0.00012	-0.00009
	B0	0.00025	0.00025	0.00025
	B0	-0.00014	-0.00014	-0.00014
	B0	0.00179	0.00184	0.00188
	B1	-0.00016	-0.00013	-0.00011
	B1	0.00033	0.00034	0.00034
	B1	-0.00014	-0.00014	-0.00014
	B1	0.00199	0.00202	0.00205
	C0	-0.00019	-0.00014	-0.00010
	C0	0.00032	0.00034	0.00034
	C0	-0.00004	-0.00004	-0.00003
	C0	0.00157	0.00163	0.00168

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X2H7H	**(A1 * B0 * C0 * !Y)**	-0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !Y)	-0.00005	-0.00005	-0.00005
	(A1 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * C0 * !Y)	0.00042	0.00042	0.00043
	(A1 * B0 * !C0 * Y)	-0.00021	-0.00019	-0.00017
	(A1 * B0 * !C0 * Y)	-0.00004	-0.00003	-0.00003
	(A1 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * Y)	0.00031	0.00031	0.00031
	(A1 * !B0 * B1 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * B1 * C0 * !Y)	-0.00005	-0.00005	-0.00005
	(A1 * !B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * B1 * C0 * !Y)	0.00042	0.00042	0.00043
	(A1 * !B0 * B1 * !C0 * Y)	-0.00021	-0.00019	-0.00017
	(A1 * !B0 * B1 * !C0 * Y)	-0.00004	-0.00003	-0.00003
	(A1 * !B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * B1 * !C0 * Y)	0.00031	0.00031	0.00031
	(A1 * !B0 * !B1 * C0 * Y)	-0.00020	-0.00019	-0.00016
	(A1 * !B0 * !B1 * C0 * Y)	-0.00004	-0.00004	-0.00003
	(A1 * !B0 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * C0 * Y)	0.00031	0.00031	0.00031
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00021	-0.00019	-0.00017
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00004	-0.00003	-0.00003
	(A1 * !B0 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * !C0 * Y)	0.00031	0.00031	0.00031
	(!A1 * B0 * !C0 * Y)	-0.00025	-0.00024	-0.00024
	(!A1 * B0 * !C0 * Y)	-0.00002	-0.00001	-0.00001
	(!A1 * B0 * !C0 * Y)	0.00002	0.00003	0.00003
	(!A1 * B0 * !C0 * Y)	0.00024	0.00024	0.00024
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00025	-0.00024	-0.00024
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00002	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C0 * Y)	0.00003	0.00003	0.00004
	(!A1 * !B0 * B1 * !C0 * Y)	0.00024	0.00024	0.00024
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00025	-0.00024	-0.00024
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * C0 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * !B1 * C0 * Y)	0.00024	0.00025	0.00025
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00025	-0.00024	-0.00024
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00024	0.00024	0.00025

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X2H7H	**(A1 * B0 * C0 * !Y)**	-0.00000	-0.00000	0.00000
	(A1 * B0 * C0 * !Y)	0.00005	0.00006	0.00006
	(A1 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * C0 * !Y)	-0.00043	-0.00042	-0.00042
	(A1 * B0 * !C0 * Y)	0.00020	0.00020	0.00021
	(A1 * B0 * !C0 * Y)	0.00003	0.00003	0.00004
	(A1 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * Y)	-0.00031	-0.00031	-0.00031
	(A1 * !B0 * B1 * C0 * !Y)	-0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * C0 * !Y)	0.00006	0.00006	0.00006
	(A1 * !B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * B1 * C0 * !Y)	-0.00043	-0.00042	-0.00042
	(A1 * !B0 * B1 * !C0 * Y)	0.00020	0.00020	0.00021
	(A1 * !B0 * B1 * !C0 * Y)	0.00003	0.00003	0.00004
	(A1 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * B1 * !C0 * Y)	-0.00031	-0.00031	-0.00031
	(A1 * !B0 * !B1 * C0 * Y)	0.00020	0.00020	0.00020
	(A1 * !B0 * !B1 * C0 * Y)	0.00004	0.00004	0.00004
	(A1 * !B0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * C0 * Y)	-0.00031	-0.00031	-0.00031
	(A1 * !B0 * !B1 * !C0 * Y)	0.00020	0.00020	0.00021
	(A1 * !B0 * !B1 * !C0 * Y)	0.00003	0.00004	0.00004
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00031	-0.00031	-0.00031
	(!A1 * B0 * !C0 * Y)	0.00024	0.00024	0.00025
	(!A1 * B0 * !C0 * Y)	0.00001	0.00002	0.00002
	(!A1 * B0 * !C0 * Y)	-0.00003	-0.00003	-0.00002
	(!A1 * B0 * !C0 * Y)	-0.00024	-0.00022	-0.00019
	(!A1 * !B0 * B1 * !C0 * Y)	0.00024	0.00024	0.00025
	(!A1 * !B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00004	-0.00003	-0.00003
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00024	-0.00022	-0.00019
	(!A1 * !B0 * !B1 * C0 * Y)	0.00024	0.00024	0.00025
	(!A1 * !B0 * !B1 * C0 * Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00025	-0.00023	-0.00019
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00024	0.00024	0.00025
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00025	-0.00023	-0.00019

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X2H7H	**(A0 * B0 * C0 * !Y)**	-0.00016	-0.00015	-0.00012
	(A0 * B0 * C0 * !Y)	-0.00004	-0.00003	-0.00003
	(A0 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * C0 * !Y)	0.00035	0.00035	0.00035
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	-0.00016	-0.00015	-0.00013
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	-0.00004	-0.00004	-0.00003
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	0.00035	0.00035	0.00035
	(A0 * !B0 * B1 * C0 * !Y)	-0.00016	-0.00015	-0.00012
	(A0 * !B0 * B1 * C0 * !Y)	-0.00004	-0.00003	-0.00003
	(A0 * !B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * B1 * C0 * !Y)	0.00035	0.00035	0.00035
	(A0 * !B0 * !B1 * Y)	-0.00016	-0.00015	-0.00013
	(A0 * !B0 * !B1 * Y)	-0.00004	-0.00004	-0.00003
	(A0 * !B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * Y)	0.00034	0.00035	0.00035
	(!A0 * B0 * !C0 * Y)	-0.00020	-0.00020	-0.00020
	(!A0 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !C0 * Y)	0.00002	0.00003	0.00004
	(!A0 * B0 * !C0 * Y)	0.00028	0.00029	0.00029
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !B0 * B1 * !C0 * Y)	0.00001	0.00002	0.00003
	(!A0 * !B0 * B1 * !C0 * Y)	0.00029	0.00029	0.00029
	(!A0 * !B0 * !B1 * C0 * Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !B0 * !B1 * C0 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * C0 * Y)	0.00002	0.00003	0.00003
	(!A0 * !B0 * !B1 * C0 * Y)	0.00029	0.00029	0.00030
	(!A0 * !B0 * !B1 * !C0 * Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !B0 * !B1 * !C0 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B0 * !B1 * !C0 * Y)	0.00002	0.00003	0.00003
	(!A0 * !B0 * !B1 * !C0 * Y)	0.00029	0.00029	0.00029

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X2H7H	**(A0 * B0 * C0 * !Y)**	0.00016	0.00016	0.00016
	(A0 * B0 * C0 * !Y)	0.00003	0.00003	0.00004
	(A0 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * C0 * !Y)	-0.00035	-0.00035	-0.00034
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	0.00016	0.00016	0.00016
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	0.00003	0.00004	0.00004
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	-0.00035	-0.00035	-0.00035
	(A0 * !B0 * B1 * C0 * !Y)	0.00016	0.00016	0.00016
	(A0 * !B0 * B1 * C0 * !Y)	0.00003	0.00003	0.00004
	(A0 * !B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * B1 * C0 * !Y)	-0.00035	-0.00035	-0.00034
	(A0 * !B0 * !B1 * Y)	0.00016	0.00016	0.00016
	(A0 * !B0 * !B1 * Y)	0.00004	0.00004	0.00004
	(A0 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * Y)	-0.00035	-0.00035	-0.00034
	(!A0 * B0 * !C0 * Y)	0.00020	0.00020	0.00020
	(!A0 * B0 * !C0 * Y)	0.00001	0.00002	0.00002
	(!A0 * B0 * !C0 * Y)	-0.00004	-0.00003	-0.00002
	(!A0 * B0 * !C0 * Y)	-0.00029	-0.00027	-0.00024
	(!A0 * !B0 * B1 * !C0 * Y)	0.00020	0.00020	0.00020
	(!A0 * !B0 * B1 * !C0 * Y)	0.00001	0.00002	0.00002
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00003	-0.00002	-0.00001
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00029	-0.00027	-0.00025
	(!A0 * !B0 * !B1 * C0 * Y)	0.00020	0.00020	0.00020
	(!A0 * !B0 * !B1 * C0 * Y)	0.00001	0.00001	0.00002
	(!A0 * !B0 * !B1 * C0 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !B0 * !B1 * C0 * Y)	-0.00029	-0.00028	-0.00025
	(!A0 * !B0 * !B1 * !C0 * Y)	0.00020	0.00020	0.00020
	(!A0 * !B0 * !B1 * !C0 * Y)	0.00001	0.00002	0.00002
	(!A0 * !B0 * !B1 * !C0 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !B0 * !B1 * !C0 * Y)	-0.00029	-0.00028	-0.00025

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X2H7H	**(A0 * B1 * C0 * !Y)**	-0.00000	-0.00000	0.00000
	(A0 * B1 * C0 * !Y)	-0.00006	-0.00005	-0.00005
	(A0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B1 * C0 * !Y)	0.00045	0.00045	0.00046
	(A0 * B1 * !C0 * Y)	-0.00023	-0.00022	-0.00019
	(A0 * B1 * !C0 * Y)	-0.00004	-0.00003	-0.00003
	(A0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B1 * !C0 * Y)	0.00031	0.00031	0.00032
	(A0 * !B1 * !C0 * Y)	-0.00027	-0.00027	-0.00027
	(A0 * !B1 * !C0 * Y)	-0.00002	-0.00001	-0.00001
	(A0 * !B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(A0 * !B1 * !C0 * Y)	0.00026	0.00027	0.00027
	(!A0 * A1 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * A1 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B1 * C0 * !Y)	0.00045	0.00045	0.00046
	(!A0 * A1 * B1 * !C0 * Y)	-0.00023	-0.00022	-0.00019
	(!A0 * A1 * B1 * !C0 * Y)	-0.00004	-0.00004	-0.00003
	(!A0 * A1 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B1 * !C0 * Y)	0.00031	0.00031	0.00032
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00027	-0.00027	-0.00027
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B1 * !C0 * Y)	0.00027	0.00027	0.00027
	(!A0 * !A1 * B1 * C0 * Y)	-0.00024	-0.00022	-0.00019
	(!A0 * !A1 * B1 * C0 * Y)	-0.00004	-0.00004	-0.00003
	(!A0 * !A1 * B1 * C0 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * B1 * C0 * Y)	0.00005	0.00006	0.00006
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00024	-0.00022	-0.00020
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00004	-0.00004	-0.00003
	(!A0 * !A1 * B1 * !C0 * Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * B1 * !C0 * Y)	0.00005	0.00006	0.00006
	(!A0 * !A1 * !B1 * C0 * Y)	-0.00028	-0.00028	-0.00027
	(!A0 * !A1 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B1 * C0 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * !B1 * C0 * Y)	0.00005	0.00006	0.00006
	(!A0 * !A1 * !B1 * !C0 * Y)	-0.00028	-0.00028	-0.00027
	(!A0 * !A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B1 * !C0 * Y)	0.00008	0.00009	0.00009
	(!A0 * !A1 * !B1 * !C0 * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X2H7H	**(A0 * B1 * C0 * !Y)**	-0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !Y)	0.00006	0.00006	0.00006
	(A0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * C0 * !Y)	-0.00046	-0.00045	-0.00045
	(A0 * B1 * !C0 * Y)	0.00023	0.00023	0.00023
	(A0 * B1 * !C0 * Y)	0.00003	0.00004	0.00004
	(A0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * !C0 * Y)	-0.00031	-0.00031	-0.00031
	(A0 * !B1 * !C0 * Y)	0.00027	0.00027	0.00028
	(A0 * !B1 * !C0 * Y)	0.00001	0.00002	0.00002
	(A0 * !B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B1 * !C0 * Y)	-0.00027	-0.00025	-0.00022
	(!A0 * A1 * B1 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * B1 * C0 * !Y)	0.00005	0.00006	0.00006
	(!A0 * A1 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B1 * C0 * !Y)	-0.00046	-0.00045	-0.00045
	(!A0 * A1 * B1 * !C0 * Y)	0.00023	0.00023	0.00023
	(!A0 * A1 * B1 * !C0 * Y)	0.00004	0.00004	0.00004
	(!A0 * A1 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B1 * !C0 * Y)	-0.00031	-0.00031	-0.00031
	(!A0 * A1 * !B1 * !C0 * Y)	0.00027	0.00027	0.00028
	(!A0 * A1 * !B1 * !C0 * Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00027	-0.00025	-0.00022
	(!A0 * !A1 * B1 * C0 * Y)	0.00024	0.00024	0.00024
	(!A0 * !A1 * B1 * C0 * Y)	0.00003	0.00004	0.00004
	(!A0 * !A1 * B1 * C0 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * B1 * C0 * Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !A1 * B1 * !C0 * Y)	0.00023	0.00023	0.00024
	(!A0 * !A1 * B1 * !C0 * Y)	0.00003	0.00004	0.00004
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00005	-0.00006	-0.00005
	(!A0 * !A1 * !B1 * C0 * Y)	0.00028	0.00028	0.00028
	(!A0 * !A1 * !B1 * C0 * Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * !B1 * C0 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * !B1 * C0 * Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !A1 * !B1 * !C0 * Y)	0.00027	0.00028	0.00028
	(!A0 * !A1 * !B1 * !C0 * Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * !B1 * !C0 * Y)	-0.00009	-0.00009	-0.00008
	(!A0 * !A1 * !B1 * !C0 * Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X2H7H	**(A0 * B0 * C0 * !Y)**	-0.00016	-0.00015	-0.00012
	(A0 * B0 * C0 * !Y)	-0.00004	-0.00003	-0.00003
	(A0 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * C0 * !Y)	0.00035	0.00035	0.00035
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	-0.00019	-0.00018	-0.00015
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	-0.00004	-0.00003	-0.00003
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	0.00032	0.00032	0.00032
	(A0 * !B0 * !C0 * Y)	-0.00023	-0.00023	-0.00023
	(A0 * !B0 * !C0 * Y)	-0.00002	-0.00001	-0.00001
	(A0 * !B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * !C0 * Y)	0.00027	0.00027	0.00027
	(!A0 * A1 * B0 * C0 * !Y)	-0.00016	-0.00015	-0.00013
	(!A0 * A1 * B0 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * C0 * !Y)	0.00035	0.00035	0.00035
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00023	-0.00023	-0.00023
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B0 * !C0 * Y)	0.00027	0.00027	0.00027
	(!A0 * !A1 * B0 * C0 * Y)	-0.00020	-0.00018	-0.00016
	(!A0 * !A1 * B0 * C0 * Y)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * B0 * C0 * Y)	0.00006	0.00006	0.00007
	(!A0 * !A1 * B0 * C0 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * B0 * !C0 * Y)	-0.00019	-0.00018	-0.00016
	(!A0 * !A1 * B0 * !C0 * Y)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * B0 * !C0 * Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * B0 * !C0 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * !B0 * C0 * Y)	-0.00023	-0.00023	-0.00023
	(!A0 * !A1 * !B0 * C0 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * !B0 * C0 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * !B0 * C0 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * !B0 * !C0 * Y)	-0.00023	-0.00023	-0.00023
	(!A0 * !A1 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * !C0 * Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * !B0 * !C0 * Y)	0.00007	0.00007	0.00008

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X2H7H	**(A0 * B0 * C0 * !Y)**	0.00016	0.00016	0.00016
	(A0 * B0 * C0 * !Y)	0.00003	0.00003	0.00004
	(A0 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * C0 * !Y)	-0.00035	-0.00035	-0.00035
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	0.00019	0.00019	0.00019
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	0.00003	0.00003	0.00004
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	-0.00032	-0.00032	-0.00032
	(A0 * !B0 * !C0 * Y)	0.00023	0.00023	0.00023
	(A0 * !B0 * !C0 * Y)	0.00001	0.00001	0.00002
	(A0 * !B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * !C0 * Y)	-0.00027	-0.00026	-0.00023
	(!A0 * A1 * B0 * C0 * !Y)	0.00016	0.00016	0.00016
	(!A0 * A1 * B0 * C0 * !Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * C0 * !Y)	-0.00035	-0.00035	-0.00034
	(!A0 * A1 * !B0 * !C0 * Y)	0.00023	0.00023	0.00024
	(!A0 * A1 * !B0 * !C0 * Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00027	-0.00026	-0.00023
	(!A0 * !A1 * B0 * C0 * Y)	0.00019	0.00020	0.00020
	(!A0 * !A1 * B0 * C0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * B0 * C0 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * B0 * C0 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * B0 * !C0 * Y)	0.00019	0.00019	0.00019
	(!A0 * !A1 * B0 * !C0 * Y)	0.00003	0.00003	0.00004
	(!A0 * !A1 * B0 * !C0 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * B0 * !C0 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * !B0 * C0 * Y)	0.00023	0.00023	0.00024
	(!A0 * !A1 * !B0 * C0 * Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * !B0 * C0 * Y)	-0.00007	-0.00007	-0.00006
	(!A0 * !A1 * !B0 * C0 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * !B0 * !C0 * Y)	0.00023	0.00023	0.00024
	(!A0 * !A1 * !B0 * !C0 * Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * !B0 * !C0 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * !B0 * !C0 * Y)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI221X2H7H	(A0 * !B0 * !B1 * Y)	-0.00037	-0.00037	-0.00036
	(A0 * !B0 * !B1 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * !B0 * !B1 * Y)	0.00004	0.00004	0.00004
	(A0 * !B0 * !B1 * Y)	0.00008	0.00009	0.00009
	(!A0 * !B0 * !B1 * Y)	-0.00037	-0.00037	-0.00036
	(!A0 * !B0 * !B1 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * Y)	0.00004	0.00004	0.00004
	(!A0 * !B0 * !B1 * Y)	0.00008	0.00009	0.00009
	(!A0 * !A1 * B0 * Y)	-0.00037	-0.00037	-0.00036
	(!A0 * !A1 * B0 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * B0 * Y)	0.00007	0.00007	0.00008
	(!A0 * !A1 * !B0 * B1 * Y)	-0.00037	-0.00037	-0.00036
	(!A0 * !A1 * !B0 * B1 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * !B0 * B1 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !B0 * B1 * Y)	0.00007	0.00007	0.00008

Passive power(pJ) for C0 falling (conditional):

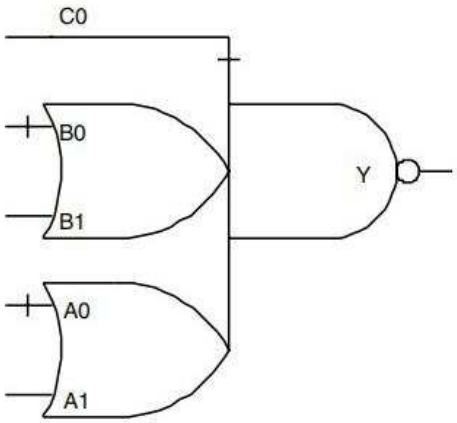
Cell Name	When	Power(pJ)		
		min	avg	max
OAI221X2H7H	(A0 * !B0 * !B1 * Y)	0.00037	0.00037	0.00037
	(A0 * !B0 * !B1 * Y)	0.00001	0.00002	0.00002
	(A0 * !B0 * !B1 * Y)	-0.00004	-0.00004	-0.00004
	(A0 * !B0 * !B1 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !B0 * !B1 * Y)	0.00037	0.00037	0.00037
	(!A0 * !B0 * !B1 * Y)	0.00001	0.00002	0.00002
	(!A0 * !B0 * !B1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !B0 * !B1 * Y)	-0.00009	-0.00009	-0.00008
	(!A0 * !A1 * B0 * Y)	0.00036	0.00037	0.00037
	(!A0 * !A1 * B0 * Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * B0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * B0 * Y)	-0.00008	-0.00007	-0.00007
	(!A0 * !A1 * !B0 * B1 * Y)	0.00037	0.00037	0.00037
	(!A0 * !A1 * !B0 * B1 * Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * !B0 * B1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !B0 * B1 * Y)	-0.00008	-0.00007	-0.00007

OAI221X3H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI221 cell provides the logical inverted AND of two OR groups and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT					OUTPUT
A0	A1	B0	B1	C0	Y
0	0	x	x	x	1
x	1	0	0	x	1
x	1	x	1	0	1
x	1	x	1	1	0
x	1	1	x	0	1
x	1	1	x	1	0
1	x	0	0	x	1
1	x	x	1	0	1
1	x	x	1	1	0
1	x	1	x	0	1
1	x	1	x	1	0

Footprint

Cell Name	Area
OAI221X3H7H	4.76000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	A1	B0	B1	C0	Y
OAI221X3H7H	0.00194	0.00180	0.00204	0.00192	0.00194	0.04081

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI221X3H7H	0.00000	0.03274	0.04027

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI221X3H7H	A0->Y (FR)	0.05999	0.23567	0.73778
	A1->Y (FR)	0.06535	0.24592	0.75096
	B0->Y (FR)	0.04988	0.22111	0.72539
	B1->Y (FR)	0.05587	0.23192	0.73713
	C0->Y (FR)	0.02134	0.13658	0.53182

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI221X3H7H	A0->Y (RF)	0.06530	0.23616	0.70563
	A1->Y (RF)	0.07203	0.24416	0.71354
	B0->Y (RF)	0.05881	0.23094	0.72585
	B1->Y (RF)	0.06535	0.23917	0.73364
	C0->Y (RF)	0.05110	0.21851	0.70783

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI221X3H7H	A0	0.00383	0.00392	0.00400
	A0	-0.00024	-0.00024	-0.00024
	A0	0.00041	0.00041	0.00041
	A0	-0.00003	0.00003	0.00009
	A1	0.00443	0.00450	0.00455
	A1	-0.00038	-0.00037	-0.00032
	A1	0.00041	0.00041	0.00041
	A1	0.00005	0.00010	0.00014
	B0	0.00313	0.00321	0.00329
	B0	-0.00024	-0.00024	-0.00022
	B0	0.00019	0.00021	0.00022
	B0	-0.00015	-0.00006	0.00000
	B1	0.00370	0.00379	0.00385
	B1	-0.00040	-0.00037	-0.00037
	B1	0.00014	0.00021	0.00025
	B1	-0.00001	0.00008	0.00013
	C0	0.00297	0.00305	0.00313
	C0	-0.00024	-0.00024	-0.00023
	C0	0.00006	0.00006	0.00008
	C0	-0.00013	-0.00003	0.00005

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI221X3H7H	A0	-0.00021	-0.00012	-0.00006
	A0	0.00030	0.00037	0.00042
	A0	-0.00040	-0.00040	-0.00039
	A0	0.00394	0.00403	0.00407
	A1	-0.00018	-0.00012	-0.00005
	A1	0.00050	0.00051	0.00052
	A1	-0.00040	-0.00040	-0.00039
	A1	0.00432	0.00438	0.00441
	B0	-0.00021	-0.00012	-0.00006
	B0	0.00037	0.00037	0.00037
	B0	-0.00022	-0.00021	-0.00019
	B0	0.00310	0.00318	0.00323
	B1	-0.00020	-0.00014	-0.00010
	B1	0.00049	0.00051	0.00051
	B1	-0.00025	-0.00021	-0.00014
	B1	0.00340	0.00346	0.00351
	C0	-0.00018	-0.00010	-0.00004
	C0	0.00050	0.00050	0.00051
	C0	-0.00006	-0.00006	-0.00005
	C0	0.00259	0.00269	0.00277

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X3H7H	**(A1 * B0 * C0 * !Y)**	-0.00000	-0.00000	0.00000
	(A1 * B0 * C0 * !Y)	-0.00008	-0.00008	-0.00008
	(A1 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * C0 * !Y)	0.00077	0.00077	0.00077
	(A1 * B0 * !C0 * Y)	-0.00035	-0.00032	-0.00027
	(A1 * B0 * !C0 * Y)	-0.00006	-0.00006	-0.00005
	(A1 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * Y)	0.00056	0.00056	0.00057
	(A1 * !B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * C0 * !Y)	-0.00008	-0.00007	-0.00007
	(A1 * !B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * B1 * C0 * !Y)	0.00076	0.00077	0.00077
	(A1 * !B0 * B1 * !C0 * Y)	-0.00035	-0.00032	-0.00028
	(A1 * !B0 * B1 * !C0 * Y)	-0.00007	-0.00005	-0.00004
	(A1 * !B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * B1 * !C0 * Y)	0.00056	0.00056	0.00057
	(A1 * !B0 * !B1 * C0 * Y)	-0.00035	-0.00032	-0.00028
	(A1 * !B0 * !B1 * C0 * Y)	-0.00006	-0.00005	-0.00005
	(A1 * !B0 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * C0 * Y)	0.00056	0.00056	0.00057
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00036	-0.00033	-0.00028
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00006	-0.00005	-0.00005
	(A1 * !B0 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * !C0 * Y)	0.00056	0.00056	0.00057
	(!A1 * B0 * !C0 * Y)	-0.00044	-0.00044	-0.00044
	(!A1 * B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * !C0 * Y)	0.00004	0.00004	0.00005
	(!A1 * B0 * !C0 * Y)	0.00043	0.00043	0.00043
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00044	-0.00044	-0.00043
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00002	-0.00002	-0.00000
	(!A1 * !B0 * B1 * !C0 * Y)	0.00004	0.00005	0.00006
	(!A1 * !B0 * B1 * !C0 * Y)	0.00043	0.00043	0.00044
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00044	-0.00043	-0.00043
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00003	-0.00002	-0.00002
	(!A1 * !B0 * !B1 * C0 * Y)	0.00004	0.00004	0.00004
	(!A1 * !B0 * !B1 * C0 * Y)	0.00043	0.00044	0.00044
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00044	-0.00044	-0.00043
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00003	-0.00002	-0.00002
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00004	0.00004	0.00004
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00043	0.00044	0.00044

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X3H7H	**(A1 * B0 * C0 * !Y)**	-0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !Y)	0.00008	0.00008	0.00008
	(A1 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * C0 * !Y)	-0.00077	-0.00077	-0.00076
	(A1 * B0 * !C0 * Y)	0.00035	0.00035	0.00035
	(A1 * B0 * !C0 * Y)	0.00005	0.00006	0.00006
	(A1 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * Y)	-0.00056	-0.00056	-0.00056
	(A1 * !B0 * B1 * C0 * !Y)	-0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * C0 * !Y)	0.00008	0.00008	0.00008
	(A1 * !B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * B1 * C0 * !Y)	-0.00077	-0.00077	-0.00076
	(A1 * !B0 * B1 * !C0 * Y)	0.00035	0.00035	0.00035
	(A1 * !B0 * B1 * !C0 * Y)	0.00004	0.00005	0.00007
	(A1 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * B1 * !C0 * Y)	-0.00056	-0.00056	-0.00055
	(A1 * !B0 * !B1 * C0 * Y)	0.00035	0.00035	0.00035
	(A1 * !B0 * !B1 * C0 * Y)	0.00005	0.00006	0.00006
	(A1 * !B0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * C0 * Y)	-0.00056	-0.00056	-0.00056
	(A1 * !B0 * !B1 * !C0 * Y)	0.00035	0.00036	0.00036
	(A1 * !B0 * !B1 * !C0 * Y)	0.00005	0.00005	0.00006
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00056	-0.00056	-0.00056
	(!A1 * B0 * !C0 * Y)	0.00044	0.00044	0.00044
	(!A1 * B0 * !C0 * Y)	0.00002	0.00003	0.00003
	(!A1 * B0 * !C0 * Y)	-0.00005	-0.00004	-0.00004
	(!A1 * B0 * !C0 * Y)	-0.00043	-0.00039	-0.00035
	(!A1 * !B0 * B1 * !C0 * Y)	0.00043	0.00044	0.00044
	(!A1 * !B0 * B1 * !C0 * Y)	0.00000	0.00002	0.00003
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00006	-0.00005	-0.00004
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00043	-0.00040	-0.00035
	(!A1 * !B0 * !B1 * C0 * Y)	0.00043	0.00043	0.00044
	(!A1 * !B0 * !B1 * C0 * Y)	0.00002	0.00002	0.00003
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00044	-0.00041	-0.00035
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00043	0.00044	0.00044
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00002	0.00002	0.00003
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00044	-0.00041	-0.00036

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X3H7H	**(A0 * B0 * C0 * !Y)**	-0.00029	-0.00025	-0.00020
	(A0 * B0 * C0 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * C0 * !Y)	0.00061	0.00062	0.00064
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	-0.00029	-0.00026	-0.00021
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	-0.00006	-0.00006	-0.00005
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	0.00060	0.00061	0.00062
	(A0 * !B0 * B1 * C0 * !Y)	-0.00029	-0.00025	-0.00020
	(A0 * !B0 * B1 * C0 * !Y)	-0.00006	-0.00006	-0.00005
	(A0 * !B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * B1 * C0 * !Y)	0.00061	0.00062	0.00064
	(A0 * !B0 * !B1 * Y)	-0.00029	-0.00026	-0.00022
	(A0 * !B0 * !B1 * Y)	-0.00006	-0.00006	-0.00005
	(A0 * !B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * Y)	0.00060	0.00061	0.00061
	(!A0 * B0 * !C0 * Y)	-0.00038	-0.00038	-0.00038
	(!A0 * B0 * !C0 * Y)	-0.00003	-0.00002	-0.00002
	(!A0 * B0 * !C0 * Y)	0.00004	0.00004	0.00006
	(!A0 * B0 * !C0 * Y)	0.00046	0.00047	0.00048
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00038	-0.00038	-0.00038
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00003	-0.00002	-0.00001
	(!A0 * !B0 * B1 * !C0 * Y)	0.00002	0.00004	0.00004
	(!A0 * !B0 * B1 * !C0 * Y)	0.00048	0.00048	0.00048
	(!A0 * !B0 * !B1 * C0 * Y)	-0.00038	-0.00038	-0.00038
	(!A0 * !B0 * !B1 * C0 * Y)	-0.00003	-0.00002	-0.00001
	(!A0 * !B0 * !B1 * C0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !B0 * !B1 * C0 * Y)	0.00048	0.00049	0.00049
	(!A0 * !B0 * !B1 * !C0 * Y)	-0.00038	-0.00038	-0.00038
	(!A0 * !B0 * !B1 * !C0 * Y)	-0.00003	-0.00002	-0.00002
	(!A0 * !B0 * !B1 * !C0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !B0 * !B1 * !C0 * Y)	0.00048	0.00048	0.00049

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X3H7H	**(A0 * B0 * C0 * !Y)**	0.00028	0.00028	0.00029
	(A0 * B0 * C0 * !Y)	0.00006	0.00006	0.00006
	(A0 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * C0 * !Y)	-0.00061	-0.00061	-0.00061
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	0.00029	0.00029	0.00029
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	0.00005	0.00006	0.00006
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	-0.00060	-0.00060	-0.00060
	(A0 * !B0 * B1 * C0 * !Y)	0.00028	0.00028	0.00029
	(A0 * !B0 * B1 * C0 * !Y)	0.00005	0.00006	0.00006
	(A0 * !B0 * B1 * C0 * !Y)	-0.00001	-0.00001	0.00000
	(A0 * !B0 * B1 * C0 * !Y)	-0.00062	-0.00061	-0.00061
	(A0 * !B0 * !B1 * Y)	0.00029	0.00029	0.00029
	(A0 * !B0 * !B1 * Y)	0.00006	0.00006	0.00006
	(A0 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * Y)	-0.00060	-0.00060	-0.00060
	(!A0 * B0 * !C0 * Y)	0.00038	0.00038	0.00039
	(!A0 * B0 * !C0 * Y)	0.00002	0.00003	0.00003
	(!A0 * B0 * !C0 * Y)	-0.00006	-0.00004	-0.00004
	(!A0 * B0 * !C0 * Y)	-0.00048	-0.00044	-0.00039
	(!A0 * !B0 * B1 * !C0 * Y)	0.00038	0.00038	0.00038
	(!A0 * !B0 * B1 * !C0 * Y)	0.00001	0.00002	0.00003
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00004	-0.00004	-0.00002
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00048	-0.00044	-0.00040
	(!A0 * !B0 * !B1 * C0 * Y)	0.00038	0.00038	0.00038
	(!A0 * !B0 * !B1 * C0 * Y)	0.00001	0.00002	0.00003
	(!A0 * !B0 * !B1 * C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !B0 * !B1 * C0 * Y)	-0.00049	-0.00045	-0.00040
	(!A0 * !B0 * !B1 * !C0 * Y)	0.00038	0.00038	0.00038
	(!A0 * !B0 * !B1 * !C0 * Y)	0.00002	0.00003	0.00003
	(!A0 * !B0 * !B1 * !C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !B0 * !B1 * !C0 * Y)	-0.00048	-0.00045	-0.00040

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X3H7H	**(A0 * B1 * C0 * !Y)**	-0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !Y)	-0.00008	-0.00007	-0.00007
	(A0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B1 * C0 * !Y)	0.00085	0.00085	0.00086
	(A0 * B1 * !C0 * Y)	-0.00038	-0.00035	-0.00030
	(A0 * B1 * !C0 * Y)	-0.00005	-0.00005	-0.00005
	(A0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B1 * !C0 * Y)	0.00061	0.00062	0.00063
	(A0 * !B1 * !C0 * Y)	-0.00047	-0.00046	-0.00046
	(A0 * !B1 * !C0 * Y)	-0.00003	-0.00002	-0.00002
	(A0 * !B1 * !C0 * Y)	0.00004	0.00004	0.00004
	(A0 * !B1 * !C0 * Y)	0.00051	0.00051	0.00051
	(!A0 * A1 * B1 * C0 * !Y)	-0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * !Y)	-0.00008	-0.00007	-0.00007
	(!A0 * A1 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B1 * C0 * !Y)	0.00085	0.00085	0.00086
	(!A0 * A1 * B1 * !C0 * Y)	-0.00038	-0.00035	-0.00030
	(!A0 * A1 * B1 * !C0 * Y)	-0.00006	-0.00005	-0.00004
	(!A0 * A1 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B1 * !C0 * Y)	0.00061	0.00061	0.00062
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00047	-0.00046	-0.00046
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00003	-0.00002	-0.00002
	(!A0 * A1 * !B1 * !C0 * Y)	0.00004	0.00004	0.00004
	(!A0 * A1 * !B1 * !C0 * Y)	0.00051	0.00051	0.00051
	(!A0 * !A1 * B1 * C0 * Y)	-0.00039	-0.00035	-0.00031
	(!A0 * !A1 * B1 * C0 * Y)	-0.00006	-0.00005	-0.00005
	(!A0 * !A1 * B1 * C0 * Y)	0.00010	0.00011	0.00011
	(!A0 * !A1 * B1 * C0 * Y)	0.00015	0.00016	0.00017
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00039	-0.00036	-0.00031
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B1 * !C0 * Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * B1 * !C0 * Y)	0.00015	0.00016	0.00017
	(!A0 * !A1 * !B1 * C0 * Y)	-0.00047	-0.00047	-0.00047
	(!A0 * !A1 * !B1 * C0 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * !B1 * C0 * Y)	0.00011	0.00011	0.00012
	(!A0 * !A1 * !B1 * C0 * Y)	0.00014	0.00014	0.00014
	(!A0 * !A1 * !B1 * !C0 * Y)	-0.00047	-0.00047	-0.00046
	(!A0 * !A1 * !B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !B1 * !C0 * Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * !B1 * !C0 * Y)	0.00013	0.00014	0.00014

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X3H7H	**(A0 * B1 * C0 * !Y)**	-0.00000	-0.00000	0.00000
	(A0 * B1 * C0 * !Y)	0.00008	0.00008	0.00008
	(A0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * C0 * !Y)	-0.00086	-0.00085	-0.00084
	(A0 * B1 * !C0 * Y)	0.00037	0.00038	0.00038
	(A0 * B1 * !C0 * Y)	0.00005	0.00005	0.00005
	(A0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * !C0 * Y)	-0.00061	-0.00061	-0.00060
	(A0 * !B1 * !C0 * Y)	0.00046	0.00047	0.00047
	(A0 * !B1 * !C0 * Y)	0.00002	0.00003	0.00003
	(A0 * !B1 * !C0 * Y)	-0.00004	-0.00004	-0.00003
	(A0 * !B1 * !C0 * Y)	-0.00051	-0.00048	-0.00044
	(!A0 * A1 * B1 * C0 * !Y)	-0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * !Y)	0.00008	0.00008	0.00008
	(!A0 * A1 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B1 * C0 * !Y)	-0.00086	-0.00085	-0.00085
	(!A0 * A1 * B1 * !C0 * Y)	0.00038	0.00038	0.00038
	(!A0 * A1 * B1 * !C0 * Y)	0.00004	0.00005	0.00006
	(!A0 * A1 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B1 * !C0 * Y)	-0.00061	-0.00061	-0.00060
	(!A0 * A1 * !B1 * !C0 * Y)	0.00046	0.00047	0.00047
	(!A0 * A1 * !B1 * !C0 * Y)	0.00002	0.00003	0.00004
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00004	-0.00004	-0.00003
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00051	-0.00048	-0.00042
	(!A0 * !A1 * B1 * C0 * Y)	0.00039	0.00039	0.00039
	(!A0 * !A1 * B1 * C0 * Y)	0.00005	0.00005	0.00006
	(!A0 * !A1 * B1 * C0 * Y)	-0.00011	-0.00011	-0.00010
	(!A0 * !A1 * B1 * C0 * Y)	-0.00016	-0.00015	-0.00015
	(!A0 * !A1 * B1 * !C0 * Y)	0.00039	0.00039	0.00039
	(!A0 * !A1 * B1 * !C0 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !A1 * !B1 * C0 * Y)	0.00047	0.00047	0.00047
	(!A0 * !A1 * !B1 * C0 * Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * !B1 * C0 * Y)	-0.00011	-0.00011	-0.00011
	(!A0 * !A1 * !B1 * C0 * Y)	-0.00014	-0.00014	-0.00013
	(!A0 * !A1 * !B1 * !C0 * Y)	0.00047	0.00047	0.00047
	(!A0 * !A1 * !B1 * !C0 * Y)	0.00002	0.00002	0.00003
	(!A0 * !A1 * !B1 * !C0 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A1 * !B1 * !C0 * Y)	-0.00014	-0.00014	-0.00013

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X3H7H	**(A0 * B0 * C0 * !Y)**	-0.00026	-0.00023	-0.00019
	(A0 * B0 * C0 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * C0 * !Y)	0.00070	0.00070	0.00072
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	-0.00033	-0.00030	-0.00026
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	-0.00005	-0.00005	-0.00005
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	0.00063	0.00063	0.00063
	(A0 * !B0 * !C0 * Y)	-0.00040	-0.00040	-0.00040
	(A0 * !B0 * !C0 * Y)	-0.00003	-0.00002	-0.00002
	(A0 * !B0 * !C0 * Y)	0.00004	0.00004	0.00004
	(A0 * !B0 * !C0 * Y)	0.00052	0.00053	0.00053
	(!A0 * A1 * B0 * C0 * !Y)	-0.00026	-0.00023	-0.00018
	(!A0 * A1 * B0 * C0 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * A1 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * C0 * !Y)	0.00070	0.00070	0.00071
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00040	-0.00040	-0.00040
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00003	-0.00002	-0.00001
	(!A0 * A1 * !B0 * !C0 * Y)	0.00004	0.00004	0.00004
	(!A0 * A1 * !B0 * !C0 * Y)	0.00052	0.00052	0.00053
	(!A0 * !A1 * B0 * C0 * Y)	-0.00034	-0.00032	-0.00027
	(!A0 * !A1 * B0 * C0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B0 * C0 * Y)	0.00010	0.00010	0.00011
	(!A0 * !A1 * B0 * C0 * Y)	0.00017	0.00018	0.00019
	(!A0 * !A1 * B0 * !C0 * Y)	-0.00034	-0.00031	-0.00027
	(!A0 * !A1 * B0 * !C0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B0 * !C0 * Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * B0 * !C0 * Y)	0.00017	0.00018	0.00018
	(!A0 * !A1 * !B0 * C0 * Y)	-0.00041	-0.00040	-0.00040
	(!A0 * !A1 * !B0 * C0 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * !B0 * C0 * Y)	0.00011	0.00011	0.00011
	(!A0 * !A1 * !B0 * C0 * Y)	0.00016	0.00016	0.00016
	(!A0 * !A1 * !B0 * !C0 * Y)	-0.00041	-0.00041	-0.00040
	(!A0 * !A1 * !B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !B0 * !C0 * Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * !B0 * !C0 * Y)	0.00016	0.00016	0.00016

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X3H7H	**(A0 * B0 * C0 * !Y)**	0.00025	0.00026	0.00026
	(A0 * B0 * C0 * !Y)	0.00005	0.00005	0.00005
	(A0 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * C0 * !Y)	-0.00070	-0.00069	-0.00069
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	0.00033	0.00033	0.00033
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	0.00005	0.00005	0.00005
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	-0.00063	-0.00063	-0.00063
	(A0 * !B0 * !C0 * Y)	0.00040	0.00040	0.00041
	(A0 * !B0 * !C0 * Y)	0.00002	0.00003	0.00003
	(A0 * !B0 * !C0 * Y)	-0.00004	-0.00004	-0.00003
	(A0 * !B0 * !C0 * Y)	-0.00053	-0.00050	-0.00045
	(!A0 * A1 * B0 * C0 * !Y)	0.00026	0.00026	0.00026
	(!A0 * A1 * B0 * C0 * !Y)	0.00005	0.00005	0.00005
	(!A0 * A1 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * C0 * !Y)	-0.00070	-0.00070	-0.00069
	(!A0 * A1 * !B0 * !C0 * Y)	0.00040	0.00040	0.00041
	(!A0 * A1 * !B0 * !C0 * Y)	0.00002	0.00003	0.00004
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00052	-0.00049	-0.00044
	(!A0 * !A1 * B0 * C0 * Y)	0.00034	0.00034	0.00035
	(!A0 * !A1 * B0 * C0 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B0 * C0 * Y)	-0.00011	-0.00010	-0.00010
	(!A0 * !A1 * B0 * C0 * Y)	-0.00018	-0.00017	-0.00017
	(!A0 * !A1 * B0 * !C0 * Y)	0.00033	0.00034	0.00034
	(!A0 * !A1 * B0 * !C0 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B0 * !C0 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A1 * B0 * !C0 * Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !A1 * !B0 * C0 * Y)	0.00041	0.00041	0.00041
	(!A0 * !A1 * !B0 * C0 * Y)	0.00001	0.00002	0.00003
	(!A0 * !A1 * !B0 * C0 * Y)	-0.00011	-0.00011	-0.00011
	(!A0 * !A1 * !B0 * C0 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !A1 * !B0 * !C0 * Y)	0.00040	0.00041	0.00041
	(!A0 * !A1 * !B0 * !C0 * Y)	0.00002	0.00002	0.00003
	(!A0 * !A1 * !B0 * !C0 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A1 * !B0 * !C0 * Y)	-0.00016	-0.00016	-0.00016

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI221X3H7H	(A0 * !B0 * !B1 * Y)	-0.00057	-0.00056	-0.00055
	(A0 * !B0 * !B1 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * !B0 * !B1 * Y)	0.00006	0.00006	0.00006
	(A0 * !B0 * !B1 * Y)	0.00017	0.00017	0.00018
	(!A0 * !B0 * !B1 * Y)	-0.00057	-0.00056	-0.00056
	(!A0 * !B0 * !B1 * Y)	-0.00003	-0.00002	-0.00002
	(!A0 * !B0 * !B1 * Y)	0.00006	0.00006	0.00006
	(!A0 * !B0 * !B1 * Y)	0.00017	0.00017	0.00018
	(!A0 * !A1 * B0 * Y)	-0.00057	-0.00056	-0.00056
	(!A0 * !A1 * B0 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * B0 * Y)	0.00006	0.00006	0.00007
	(!A0 * !A1 * B0 * Y)	0.00015	0.00015	0.00015
	(!A0 * !A1 * !B0 * B1 * Y)	-0.00057	-0.00056	-0.00056
	(!A0 * !A1 * !B0 * B1 * Y)	-0.00003	-0.00002	-0.00002
	(!A0 * !A1 * !B0 * B1 * Y)	0.00006	0.00006	0.00007
	(!A0 * !A1 * !B0 * B1 * Y)	0.00015	0.00015	0.00015

Passive power(pJ) for C0 falling (conditional):

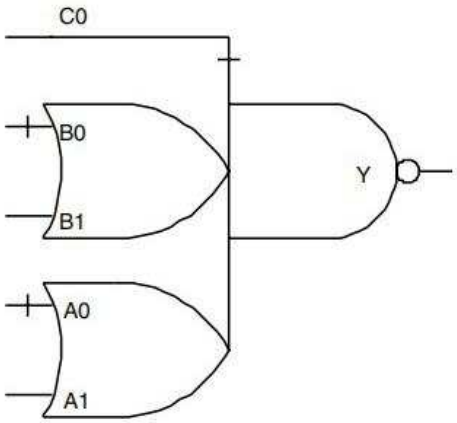
Cell Name	When	Power(pJ)		
		min	avg	max
OAI221X3H7H	(A0 * !B0 * !B1 * Y)	0.00056	0.00057	0.00057
	(A0 * !B0 * !B1 * Y)	0.00002	0.00003	0.00003
	(A0 * !B0 * !B1 * Y)	-0.00006	-0.00006	-0.00006
	(A0 * !B0 * !B1 * Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !B0 * !B1 * Y)	0.00056	0.00056	0.00057
	(!A0 * !B0 * !B1 * Y)	0.00002	0.00003	0.00003
	(!A0 * !B0 * !B1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !B0 * !B1 * Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !A1 * B0 * Y)	0.00056	0.00056	0.00057
	(!A0 * !A1 * B0 * Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * B0 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * B0 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !A1 * !B0 * B1 * Y)	0.00056	0.00056	0.00057
	(!A0 * !A1 * !B0 * B1 * Y)	0.00002	0.00002	0.00003
	(!A0 * !A1 * !B0 * B1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !B0 * B1 * Y)	-0.00015	-0.00015	-0.00015

OAI221X4H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI221 cell provides the logical inverted AND of two OR groups and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT					OUTPUT
A0	A1	B0	B1	C0	Y
0	0	x	x	x	1
x	1	0	0	x	1
x	1	x	1	0	1
x	1	x	1	1	0
x	1	1	x	0	1
x	1	1	x	1	0
1	x	0	0	x	1
1	x	x	1	0	1
1	x	x	1	1	0
1	x	1	x	0	1
1	x	1	x	1	0

Footprint

Cell Name	Area
OAI221X4H7H	5.32000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	A1	B0	B1	C0	Y
OAI221X4H7H	0.00225	0.00208	0.00233	0.00217	0.00224	0.05145

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI221X4H7H	0.00000	0.05141	0.07586

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI221X4H7H	A0->Y (FR)	0.05468	0.23178	0.73868
	A1->Y (FR)	0.05952	0.24144	0.75202
	B0->Y (FR)	0.04529	0.21827	0.72876
	B1->Y (FR)	0.05128	0.22908	0.74045
	C0->Y (FR)	0.01941	0.13492	0.53356

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI221X4H7H	A0->Y (RF)	0.06026	0.23179	0.70605
	A1->Y (RF)	0.06649	0.23931	0.71342
	B0->Y (RF)	0.05367	0.22631	0.72569
	B1->Y (RF)	0.06023	0.23464	0.73281
	C0->Y (RF)	0.04742	0.21503	0.70466

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI221X4H7H	A0	0.00439	0.00458	0.00468
	A0	-0.00032	-0.00032	-0.00031
	A0	0.00053	0.00054	0.00054
	A0	-0.00013	-0.00005	0.00002
	A1	0.00516	0.00526	0.00532
	A1	-0.00053	-0.00049	-0.00043
	A1	0.00053	0.00054	0.00054
	A1	-0.00007	-0.00002	0.00003
	B0	0.00363	0.00375	0.00384
	B0	-0.00032	-0.00032	-0.00032
	B0	0.00027	0.00028	0.00032
	B0	-0.00025	-0.00015	-0.00007
	B1	0.00435	0.00445	0.00451
	B1	-0.00053	-0.00050	-0.00049
	B1	0.00028	0.00029	0.00033
	B1	-0.00010	-0.00000	0.00006
	C0	0.00350	0.00359	0.00369
	C0	-0.00032	-0.00032	-0.00031
	C0	0.00006	0.00008	0.00009
	C0	-0.00023	-0.00011	-0.00001

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI221X4H7H	A0	-0.00030	-0.00019	-0.00012
	A0	0.00045	0.00050	0.00052
	A0	-0.00053	-0.00052	-0.00051
	A0	0.00466	0.00477	0.00483
	A1	-0.00027	-0.00020	-0.00011
	A1	0.00066	0.00067	0.00067
	A1	-0.00053	-0.00052	-0.00052
	A1	0.00514	0.00521	0.00526
	B0	-0.00031	-0.00020	-0.00013
	B0	0.00049	0.00050	0.00050
	B0	-0.00028	-0.00028	-0.00024
	B0	0.00362	0.00373	0.00379
	B1	-0.00027	-0.00020	-0.00015
	B1	0.00066	0.00067	0.00067
	B1	-0.00033	-0.00029	-0.00028
	B1	0.00405	0.00412	0.00417
	C0	-0.00028	-0.00019	-0.00011
	C0	0.00066	0.00067	0.00067
	C0	-0.00008	-0.00008	-0.00006
	C0	0.00302	0.00322	0.00331

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X4H7H	**(A1 * B0 * C0 * !Y)**	-0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !Y)	-0.00010	-0.00010	-0.00010
	(A1 * B0 * C0 * !Y)	0.00001	0.00002	0.00002
	(A1 * B0 * C0 * !Y)	0.00085	0.00086	0.00087
	(A1 * B0 * !C0 * Y)	-0.00043	-0.00039	-0.00033
	(A1 * B0 * !C0 * Y)	-0.00007	-0.00007	-0.00007
	(A1 * B0 * !C0 * Y)	0.00001	0.00001	0.00002
	(A1 * B0 * !C0 * Y)	0.00062	0.00062	0.00062
	(A1 * !B0 * B1 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * B1 * C0 * !Y)	-0.00010	-0.00010	-0.00010
	(A1 * !B0 * B1 * C0 * !Y)	0.00001	0.00002	0.00002
	(A1 * !B0 * B1 * C0 * !Y)	0.00086	0.00086	0.00087
	(A1 * !B0 * B1 * !C0 * Y)	-0.00043	-0.00040	-0.00034
	(A1 * !B0 * B1 * !C0 * Y)	-0.00008	-0.00007	-0.00006
	(A1 * !B0 * B1 * !C0 * Y)	0.00001	0.00002	0.00002
	(A1 * !B0 * B1 * !C0 * Y)	0.00061	0.00062	0.00062
	(A1 * !B0 * !B1 * C0 * Y)	-0.00043	-0.00039	-0.00033
	(A1 * !B0 * !B1 * C0 * Y)	-0.00007	-0.00007	-0.00007
	(A1 * !B0 * !B1 * C0 * Y)	0.00001	0.00002	0.00002
	(A1 * !B0 * !B1 * C0 * Y)	0.00062	0.00062	0.00063
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00043	-0.00040	-0.00034
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00007	-0.00007	-0.00006
	(A1 * !B0 * !B1 * !C0 * Y)	0.00001	0.00001	0.00002
	(A1 * !B0 * !B1 * !C0 * Y)	0.00061	0.00062	0.00062
	(!A1 * B0 * !C0 * Y)	-0.00054	-0.00053	-0.00053
	(!A1 * B0 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * B0 * !C0 * Y)	0.00005	0.00006	0.00007
	(!A1 * B0 * !C0 * Y)	0.00046	0.00047	0.00048
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00054	-0.00053	-0.00053
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * B1 * !C0 * Y)	0.00005	0.00006	0.00006
	(!A1 * !B0 * B1 * !C0 * Y)	0.00047	0.00048	0.00048
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00054	-0.00053	-0.00053
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * !B1 * C0 * Y)	0.00005	0.00005	0.00005
	(!A1 * !B0 * !B1 * C0 * Y)	0.00048	0.00049	0.00049
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00054	-0.00053	-0.00053
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00005	0.00005	0.00006
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00048	0.00048	0.00049

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X4H7H	**(A1 * B0 * C0 * !Y)**	-0.00000	-0.00000	0.00000
	(A1 * B0 * C0 * !Y)	0.00010	0.00011	0.00011
	(A1 * B0 * C0 * !Y)	-0.00002	-0.00001	-0.00001
	(A1 * B0 * C0 * !Y)	-0.00086	-0.00086	-0.00085
	(A1 * B0 * !C0 * Y)	0.00043	0.00043	0.00043
	(A1 * B0 * !C0 * Y)	0.00007	0.00007	0.00007
	(A1 * B0 * !C0 * Y)	-0.00002	-0.00001	-0.00001
	(A1 * B0 * !C0 * Y)	-0.00062	-0.00062	-0.00061
	(A1 * !B0 * B1 * C0 * !Y)	-0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * C0 * !Y)	0.00010	0.00011	0.00011
	(A1 * !B0 * B1 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * !B0 * B1 * C0 * !Y)	-0.00086	-0.00086	-0.00085
	(A1 * !B0 * B1 * !C0 * Y)	0.00043	0.00043	0.00043
	(A1 * !B0 * B1 * !C0 * Y)	0.00006	0.00007	0.00008
	(A1 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * B1 * !C0 * Y)	-0.00062	-0.00061	-0.00061
	(A1 * !B0 * !B1 * C0 * Y)	0.00043	0.00043	0.00043
	(A1 * !B0 * !B1 * C0 * Y)	0.00007	0.00007	0.00007
	(A1 * !B0 * !B1 * C0 * Y)	-0.00002	-0.00002	-0.00001
	(A1 * !B0 * !B1 * C0 * Y)	-0.00062	-0.00062	-0.00061
	(A1 * !B0 * !B1 * !C0 * Y)	0.00043	0.00043	0.00043
	(A1 * !B0 * !B1 * !C0 * Y)	0.00007	0.00007	0.00007
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00062	-0.00061	-0.00061
	(!A1 * B0 * !C0 * Y)	0.00053	0.00053	0.00054
	(!A1 * B0 * !C0 * Y)	0.00003	0.00003	0.00003
	(!A1 * B0 * !C0 * Y)	-0.00007	-0.00006	-0.00005
	(!A1 * B0 * !C0 * Y)	-0.00048	-0.00043	-0.00038
	(!A1 * !B0 * B1 * !C0 * Y)	0.00053	0.00053	0.00054
	(!A1 * !B0 * B1 * !C0 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00006	-0.00006	-0.00005
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00048	-0.00044	-0.00038
	(!A1 * !B0 * !B1 * C0 * Y)	0.00053	0.00053	0.00054
	(!A1 * !B0 * !B1 * C0 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00005	-0.00005	-0.00005
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00049	-0.00045	-0.00038
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00053	0.00053	0.00054
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00006	-0.00005	-0.00005
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00049	-0.00045	-0.00038

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X4H7H	**(A0 * B0 * C0 * !Y)**	-0.00036	-0.00032	-0.00026
	(A0 * B0 * C0 * !Y)	-0.00008	-0.00007	-0.00007
	(A0 * B0 * C0 * !Y)	0.00001	0.00002	0.00002
	(A0 * B0 * C0 * !Y)	0.00067	0.00068	0.00070
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	-0.00036	-0.00033	-0.00027
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	-0.00008	-0.00007	-0.00007
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00002
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	0.00067	0.00067	0.00068
	(A0 * !B0 * B1 * C0 * !Y)	-0.00036	-0.00032	-0.00026
	(A0 * !B0 * B1 * C0 * !Y)	-0.00008	-0.00007	-0.00007
	(A0 * !B0 * B1 * C0 * !Y)	0.00000	0.00001	0.00002
	(A0 * !B0 * B1 * C0 * !Y)	0.00067	0.00068	0.00070
	(A0 * !B0 * !B1 * Y)	-0.00037	-0.00033	-0.00027
	(A0 * !B0 * !B1 * Y)	-0.00007	-0.00007	-0.00007
	(A0 * !B0 * !B1 * Y)	0.00001	0.00002	0.00002
	(A0 * !B0 * !B1 * Y)	0.00066	0.00067	0.00067
	(!A0 * B0 * !C0 * Y)	-0.00048	-0.00047	-0.00047
	(!A0 * B0 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * B0 * !C0 * Y)	0.00003	0.00005	0.00006
	(!A0 * B0 * !C0 * Y)	0.00052	0.00053	0.00053
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00048	-0.00047	-0.00047
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00004	-0.00003	-0.00003
	(!A0 * !B0 * B1 * !C0 * Y)	0.00005	0.00006	0.00006
	(!A0 * !B0 * B1 * !C0 * Y)	0.00053	0.00053	0.00053
	(!A0 * !B0 * !B1 * C0 * Y)	-0.00048	-0.00047	-0.00047
	(!A0 * !B0 * !B1 * C0 * Y)	-0.00003	-0.00003	-0.00001
	(!A0 * !B0 * !B1 * C0 * Y)	0.00005	0.00005	0.00006
	(!A0 * !B0 * !B1 * C0 * Y)	0.00054	0.00054	0.00054
	(!A0 * !B0 * !B1 * !C0 * Y)	-0.00048	-0.00047	-0.00047
	(!A0 * !B0 * !B1 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !B0 * !B1 * !C0 * Y)	0.00005	0.00005	0.00005
	(!A0 * !B0 * !B1 * !C0 * Y)	0.00053	0.00053	0.00054

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X4H7H	**(A0 * B0 * C0 * !Y)**	0.00036	0.00036	0.00036
	(A0 * B0 * C0 * !Y)	0.00007	0.00007	0.00008
	(A0 * B0 * C0 * !Y)	-0.00002	-0.00001	-0.00001
	(A0 * B0 * C0 * !Y)	-0.00067	-0.00067	-0.00067
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	0.00036	0.00036	0.00036
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	0.00007	0.00007	0.00008
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	-0.00002	-0.00001	-0.00001
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	-0.00067	-0.00067	-0.00066
	(A0 * !B0 * B1 * C0 * !Y)	0.00036	0.00036	0.00036
	(A0 * !B0 * B1 * C0 * !Y)	0.00007	0.00007	0.00008
	(A0 * !B0 * B1 * C0 * !Y)	-0.00002	-0.00001	0.00000
	(A0 * !B0 * B1 * C0 * !Y)	-0.00067	-0.00067	-0.00067
	(A0 * !B0 * !B1 * Y)	0.00036	0.00036	0.00037
	(A0 * !B0 * !B1 * Y)	0.00007	0.00007	0.00007
	(A0 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * Y)	-0.00067	-0.00066	-0.00066
	(!A0 * B0 * !C0 * Y)	0.00047	0.00048	0.00048
	(!A0 * B0 * !C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * B0 * !C0 * Y)	-0.00006	-0.00005	-0.00003
	(!A0 * B0 * !C0 * Y)	-0.00053	-0.00048	-0.00043
	(!A0 * !B0 * B1 * !C0 * Y)	0.00047	0.00048	0.00048
	(!A0 * !B0 * B1 * !C0 * Y)	0.00003	0.00003	0.00005
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00006	-0.00005	-0.00005
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00053	-0.00049	-0.00042
	(!A0 * !B0 * !B1 * C0 * Y)	0.00047	0.00047	0.00048
	(!A0 * !B0 * !B1 * C0 * Y)	0.00001	0.00003	0.00004
	(!A0 * !B0 * !B1 * C0 * Y)	-0.00006	-0.00005	-0.00005
	(!A0 * !B0 * !B1 * C0 * Y)	-0.00054	-0.00050	-0.00044
	(!A0 * !B0 * !B1 * !C0 * Y)	0.00047	0.00047	0.00048
	(!A0 * !B0 * !B1 * !C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !B0 * !B1 * !C0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !B0 * !B1 * !C0 * Y)	-0.00054	-0.00050	-0.00043

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X4H7H	**(A0 * B1 * C0 * !Y)**	-0.00000	-0.00000	0.00000
	(A0 * B1 * C0 * !Y)	-0.00010	-0.00010	-0.00010
	(A0 * B1 * C0 * !Y)	0.00001	0.00002	0.00002
	(A0 * B1 * C0 * !Y)	0.00094	0.00095	0.00095
	(A0 * B1 * !C0 * Y)	-0.00045	-0.00041	-0.00035
	(A0 * B1 * !C0 * Y)	-0.00007	-0.00007	-0.00007
	(A0 * B1 * !C0 * Y)	0.00001	0.00002	0.00002
	(A0 * B1 * !C0 * Y)	0.00068	0.00068	0.00069
	(A0 * !B1 * !C0 * Y)	-0.00055	-0.00055	-0.00055
	(A0 * !B1 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * !B1 * !C0 * Y)	0.00005	0.00005	0.00005
	(A0 * !B1 * !C0 * Y)	0.00056	0.00056	0.00057
	(!A0 * A1 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * !Y)	-0.00010	-0.00010	-0.00009
	(!A0 * A1 * B1 * C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * B1 * C0 * !Y)	0.00094	0.00094	0.00095
	(!A0 * A1 * B1 * !C0 * Y)	-0.00045	-0.00041	-0.00035
	(!A0 * A1 * B1 * !C0 * Y)	-0.00008	-0.00007	-0.00006
	(!A0 * A1 * B1 * !C0 * Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * B1 * !C0 * Y)	0.00067	0.00068	0.00069
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00056	-0.00055	-0.00055
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * !B1 * !C0 * Y)	0.00005	0.00005	0.00005
	(!A0 * A1 * !B1 * !C0 * Y)	0.00056	0.00056	0.00056
	(!A0 * !A1 * B1 * C0 * Y)	-0.00046	-0.00042	-0.00036
	(!A0 * !A1 * B1 * C0 * Y)	-0.00007	-0.00007	-0.00006
	(!A0 * !A1 * B1 * C0 * Y)	0.00014	0.00014	0.00014
	(!A0 * !A1 * B1 * C0 * Y)	0.00013	0.00014	0.00016
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00046	-0.00042	-0.00036
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00007	-0.00007	-0.00006
	(!A0 * !A1 * B1 * !C0 * Y)	0.00017	0.00017	0.00017
	(!A0 * !A1 * B1 * !C0 * Y)	0.00013	0.00014	0.00015
	(!A0 * !A1 * !B1 * C0 * Y)	-0.00056	-0.00056	-0.00056
	(!A0 * !A1 * !B1 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !B1 * C0 * Y)	0.00015	0.00015	0.00015
	(!A0 * !A1 * !B1 * C0 * Y)	0.00012	0.00012	0.00012
	(!A0 * !A1 * !B1 * !C0 * Y)	-0.00056	-0.00056	-0.00055
	(!A0 * !A1 * !B1 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !B1 * !C0 * Y)	0.00017	0.00018	0.00018
	(!A0 * !A1 * !B1 * !C0 * Y)	0.00011	0.00012	0.00012

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X4H7H	**(A0 * B1 * C0 * !Y)**	-0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !Y)	0.00010	0.00011	0.00011
	(A0 * B1 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * B1 * C0 * !Y)	-0.00095	-0.00095	-0.00094
	(A0 * B1 * !C0 * Y)	0.00044	0.00044	0.00045
	(A0 * B1 * !C0 * Y)	0.00007	0.00007	0.00007
	(A0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * !C0 * Y)	-0.00068	-0.00068	-0.00067
	(A0 * !B1 * !C0 * Y)	0.00055	0.00055	0.00056
	(A0 * !B1 * !C0 * Y)	0.00003	0.00003	0.00003
	(A0 * !B1 * !C0 * Y)	-0.00005	-0.00005	-0.00004
	(A0 * !B1 * !C0 * Y)	-0.00057	-0.00053	-0.00048
	(!A0 * A1 * B1 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * B1 * C0 * !Y)	0.00010	0.00010	0.00010
	(!A0 * A1 * B1 * C0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * A1 * B1 * C0 * !Y)	-0.00095	-0.00094	-0.00093
	(!A0 * A1 * B1 * !C0 * Y)	0.00044	0.00045	0.00045
	(!A0 * A1 * B1 * !C0 * Y)	0.00006	0.00007	0.00008
	(!A0 * A1 * B1 * !C0 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * A1 * B1 * !C0 * Y)	-0.00068	-0.00067	-0.00066
	(!A0 * A1 * !B1 * !C0 * Y)	0.00055	0.00056	0.00056
	(!A0 * A1 * !B1 * !C0 * Y)	0.00003	0.00003	0.00005
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00005	-0.00005	-0.00004
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00056	-0.00053	-0.00046
	(!A0 * !A1 * B1 * C0 * Y)	0.00046	0.00046	0.00046
	(!A0 * !A1 * B1 * C0 * Y)	0.00006	0.00007	0.00007
	(!A0 * !A1 * B1 * C0 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !A1 * B1 * C0 * Y)	-0.00014	-0.00013	-0.00013
	(!A0 * !A1 * B1 * !C0 * Y)	0.00045	0.00046	0.00046
	(!A0 * !A1 * B1 * !C0 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A1 * !B1 * C0 * Y)	0.00056	0.00056	0.00056
	(!A0 * !A1 * !B1 * C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !B1 * C0 * Y)	-0.00015	-0.00014	-0.00014
	(!A0 * !A1 * !B1 * C0 * Y)	-0.00012	-0.00012	-0.00011
	(!A0 * !A1 * !B1 * !C0 * Y)	0.00056	0.00056	0.00056
	(!A0 * !A1 * !B1 * !C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !B1 * !C0 * Y)	-0.00018	-0.00018	-0.00017
	(!A0 * !A1 * !B1 * !C0 * Y)	-0.00012	-0.00012	-0.00011

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X4H7H	**(A0 * B0 * C0 * !Y)**	-0.00033	-0.00030	-0.00025
	(A0 * B0 * C0 * !Y)	-0.00007	-0.00006	-0.00006
	(A0 * B0 * C0 * !Y)	0.00001	0.00002	0.00002
	(A0 * B0 * C0 * !Y)	0.00075	0.00076	0.00077
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	-0.00040	-0.00036	-0.00031
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	-0.00007	-0.00006	-0.00006
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	0.00001	0.00002	0.00002
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	0.00068	0.00069	0.00069
	(A0 * !B0 * !C0 * Y)	-0.00049	-0.00049	-0.00049
	(A0 * !B0 * !C0 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * !B0 * !C0 * Y)	0.00005	0.00005	0.00005
	(A0 * !B0 * !C0 * Y)	0.00057	0.00057	0.00057
	(!A0 * A1 * B0 * C0 * !Y)	-0.00033	-0.00030	-0.00024
	(!A0 * A1 * B0 * C0 * !Y)	-0.00007	-0.00006	-0.00006
	(!A0 * A1 * B0 * C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * B0 * C0 * !Y)	0.00075	0.00076	0.00076
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00049	-0.00049	-0.00049
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00005	-0.00003	-0.00002
	(!A0 * A1 * !B0 * !C0 * Y)	0.00005	0.00005	0.00005
	(!A0 * A1 * !B0 * !C0 * Y)	0.00057	0.00057	0.00057
	(!A0 * !A1 * B0 * C0 * Y)	-0.00041	-0.00038	-0.00033
	(!A0 * !A1 * B0 * C0 * Y)	-0.00007	-0.00006	-0.00006
	(!A0 * !A1 * B0 * C0 * Y)	0.00014	0.00014	0.00014
	(!A0 * !A1 * B0 * C0 * Y)	0.00016	0.00016	0.00018
	(!A0 * !A1 * B0 * !C0 * Y)	-0.00041	-0.00038	-0.00033
	(!A0 * !A1 * B0 * !C0 * Y)	-0.00007	-0.00006	-0.00006
	(!A0 * !A1 * B0 * !C0 * Y)	0.00017	0.00017	0.00017
	(!A0 * !A1 * B0 * !C0 * Y)	0.00016	0.00016	0.00017
	(!A0 * !A1 * !B0 * C0 * Y)	-0.00050	-0.00049	-0.00049
	(!A0 * !A1 * !B0 * C0 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * !B0 * C0 * Y)	0.00014	0.00015	0.00015
	(!A0 * !A1 * !B0 * C0 * Y)	0.00014	0.00014	0.00014
	(!A0 * !A1 * !B0 * !C0 * Y)	-0.00050	-0.00049	-0.00049
	(!A0 * !A1 * !B0 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !B0 * !C0 * Y)	0.00017	0.00017	0.00017
	(!A0 * !A1 * !B0 * !C0 * Y)	0.00014	0.00014	0.00015

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X4H7H	**(A0 * B0 * C0 * !Y)**	0.00033	0.00033	0.00033
	(A0 * B0 * C0 * !Y)	0.00006	0.00006	0.00007
	(A0 * B0 * C0 * !Y)	-0.00002	-0.00001	-0.00001
	(A0 * B0 * C0 * !Y)	-0.00075	-0.00075	-0.00073
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	0.00039	0.00040	0.00040
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	0.00006	0.00006	0.00007
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	-0.00069	-0.00068	-0.00068
	(A0 * !B0 * !C0 * Y)	0.00049	0.00049	0.00050
	(A0 * !B0 * !C0 * Y)	0.00002	0.00003	0.00003
	(A0 * !B0 * !C0 * Y)	-0.00005	-0.00005	-0.00005
	(A0 * !B0 * !C0 * Y)	-0.00057	-0.00054	-0.00048
	(!A0 * A1 * B0 * C0 * !Y)	0.00033	0.00033	0.00033
	(!A0 * A1 * B0 * C0 * !Y)	0.00006	0.00006	0.00007
	(!A0 * A1 * B0 * C0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * A1 * B0 * C0 * !Y)	-0.00075	-0.00075	-0.00075
	(!A0 * A1 * !B0 * !C0 * Y)	0.00049	0.00049	0.00050
	(!A0 * A1 * !B0 * !C0 * Y)	0.00002	0.00003	0.00005
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00057	-0.00053	-0.00047
	(!A0 * !A1 * B0 * C0 * Y)	0.00041	0.00041	0.00042
	(!A0 * !A1 * B0 * C0 * Y)	0.00006	0.00006	0.00007
	(!A0 * !A1 * B0 * C0 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !A1 * B0 * C0 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !A1 * B0 * !C0 * Y)	0.00040	0.00041	0.00041
	(!A0 * !A1 * B0 * !C0 * Y)	0.00006	0.00006	0.00007
	(!A0 * !A1 * B0 * !C0 * Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !A1 * B0 * !C0 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !A1 * !B0 * C0 * Y)	0.00049	0.00050	0.00050
	(!A0 * !A1 * !B0 * C0 * Y)	0.00003	0.00003	0.00004
	(!A0 * !A1 * !B0 * C0 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !A1 * !B0 * C0 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !A1 * !B0 * !C0 * Y)	0.00049	0.00050	0.00050
	(!A0 * !A1 * !B0 * !C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !B0 * !C0 * Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !A1 * !B0 * !C0 * Y)	-0.00014	-0.00014	-0.00014

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI221X4H7H	(A0 * !B0 * !B1 * Y)	-0.00069	-0.00068	-0.00067
	(A0 * !B0 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * !B0 * !B1 * Y)	0.00008	0.00008	0.00008
	(A0 * !B0 * !B1 * Y)	0.00016	0.00017	0.00017
	(!A0 * !B0 * !B1 * Y)	-0.00069	-0.00068	-0.00067
	(!A0 * !B0 * !B1 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !B0 * !B1 * Y)	0.00008	0.00008	0.00008
	(!A0 * !B0 * !B1 * Y)	0.00017	0.00017	0.00017
	(!A0 * !A1 * B0 * Y)	-0.00069	-0.00068	-0.00068
	(!A0 * !A1 * B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B0 * Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * B0 * Y)	0.00014	0.00014	0.00014
	(!A0 * !A1 * !B0 * B1 * Y)	-0.00069	-0.00068	-0.00068
	(!A0 * !A1 * !B0 * B1 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * !B0 * B1 * Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * !B0 * B1 * Y)	0.00014	0.00015	0.00015

Passive power(pJ) for C0 falling (conditional):

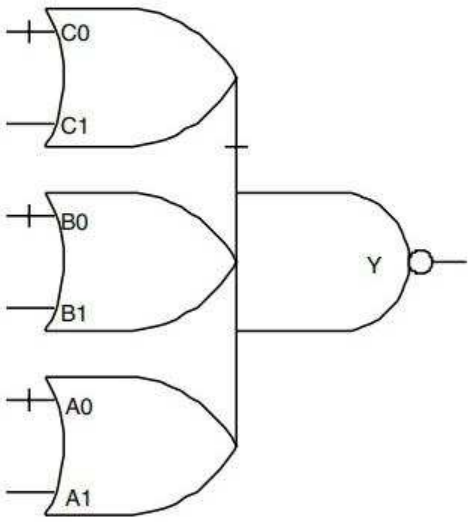
Cell Name	When	Power(pJ)		
		min	avg	max
OAI221X4H7H	(A0 * !B0 * !B1 * Y)	0.00068	0.00068	0.00069
	(A0 * !B0 * !B1 * Y)	0.00003	0.00003	0.00003
	(A0 * !B0 * !B1 * Y)	-0.00008	-0.00007	-0.00007
	(A0 * !B0 * !B1 * Y)	-0.00017	-0.00016	-0.00016
	(!A0 * !B0 * !B1 * Y)	0.00068	0.00068	0.00069
	(!A0 * !B0 * !B1 * Y)	0.00003	0.00003	0.00004
	(!A0 * !B0 * !B1 * Y)	-0.00008	-0.00007	-0.00007
	(!A0 * !B0 * !B1 * Y)	-0.00017	-0.00016	-0.00016
	(!A0 * !A1 * B0 * Y)	0.00068	0.00069	0.00069
	(!A0 * !A1 * B0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B0 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * B0 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !A1 * !B0 * B1 * Y)	0.00068	0.00068	0.00069
	(!A0 * !A1 * !B0 * B1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !B0 * B1 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * !B0 * B1 * Y)	-0.00015	-0.00015	-0.00014

OAI222X0P5H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI222 cell provides the logical inverted AND of three OR groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT						OUTPUT
A0	A1	B0	B1	C0	C1	Y
0	0	x	x	x	x	1
x	1	0	0	x	x	1
x	1	x	1	0	0	1
x	1	x	1	x	1	0
x	1	x	1	1	x	0
x	1	1	x	0	0	1
x	1	1	x	x	1	0
x	1	1	x	1	x	0
1	x	0	0	x	x	1
1	x	x	1	0	0	1
1	x	x	1	x	1	0
1	x	x	1	1	x	0
1	x	1	x	0	0	1
1	x	1	x	x	1	0
1	x	1	x	1	x	0

Footprint

Cell Name	Area
OAI222X0P5H7H	3.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	A1	B0	B1	C0	C1	Y
OAI222X0P5H7H	0.00074	0.00082	0.00085	0.00084	0.00080	0.00091	0.01373

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI222X0P5H7H	0.00000	0.01296	0.02375

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI222X0P5H7H	A0->Y (FR)	0.09631	0.26856	0.74572
	A1->Y (FR)	0.09385	0.26282	0.73778
	B0->Y (FR)	0.08400	0.25275	0.72934
	B1->Y (FR)	0.07937	0.24485	0.71928
	C0->Y (FR)	0.06241	0.22778	0.70519
	C1->Y (FR)	0.06077	0.22221	0.69879

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI222X0P5H7H	A0->Y (RF)	0.09306	0.25077	0.67500
	A1->Y (RF)	0.08929	0.24612	0.66995
	B0->Y (RF)	0.08930	0.24969	0.69889
	B1->Y (RF)	0.08322	0.24276	0.69307
	C0->Y (RF)	0.06877	0.22520	0.67915
	C1->Y (RF)	0.06644	0.22125	0.67596

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI222X0P5H7H	A0	0.00195	0.00199	0.00202
	A0	-0.00013	-0.00013	-0.00013
	A0	0.00019	0.00019	0.00019
	A0	-0.00005	-0.00003	-0.00001
	A1	0.00181	0.00186	0.00190
	A1	-0.00008	-0.00008	-0.00007
	A1	0.00018	0.00018	0.00019
	A1	-0.00001	0.00001	0.00004
	B0	0.00171	0.00175	0.00178
	B0	-0.00013	-0.00013	-0.00012
	B0	0.00012	0.00012	0.00013
	B0	-0.00005	-0.00000	0.00002
	B1	0.00156	0.00160	0.00163
	B1	-0.00008	-0.00008	-0.00008
	B1	0.00010	0.00012	0.00013
	B1	0.00001	0.00004	0.00007
	C0	0.00137	0.00140	0.00143
	C0	-0.00013	-0.00013	-0.00012
	C0	0.00004	0.00005	0.00006
	C0	-0.00005	-0.00002	0.00001
	C1	0.00125	0.00129	0.00133
	C1	-0.00008	-0.00008	-0.00008
	C1	0.00004	0.00005	0.00018
	C1	-0.00005	-0.00000	0.00007

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI222X0P5H7H	A0	-0.00008	-0.00006	-0.00005
	A0	0.00022	0.00022	0.00022
	A0	-0.00018	-0.00018	-0.00018
	A0	0.00203	0.00204	0.00205
	A1	-0.00009	-0.00006	-0.00004
	A1	0.00017	0.00017	0.00017
	A1	-0.00018	-0.00018	-0.00018
	A1	0.00187	0.00190	0.00191
	B0	-0.00010	-0.00007	-0.00006
	B0	0.00022	0.00022	0.00022
	B0	-0.00012	-0.00012	-0.00011
	B0	0.00165	0.00168	0.00170
	B1	-0.00010	-0.00006	-0.00004
	B1	0.00017	0.00017	0.00017
	B1	-0.00012	-0.00011	-0.00010
	B1	0.00149	0.00152	0.00154
	C0	-0.00010	-0.00007	-0.00006
	C0	0.00021	0.00022	0.00022
	C0	-0.00005	-0.00005	-0.00002
	C0	0.00124	0.00128	0.00130
	C1	-0.00012	-0.00008	-0.00005
	C1	0.00017	0.00017	0.00017
	C1	-0.00005	-0.00005	0.00000
	C1	0.00113	0.00117	0.00119

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X0P5H7H	**(A1 * B1 * C1 * !Y)**	-0.00009	-0.00008	-0.00007
	(A1 * B1 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B1 * C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B1 * C1 * !Y)	0.00029	0.00029	0.00029
	(A1 * B1 * C0 * !C1 * !Y)	-0.00009	-0.00008	-0.00007
	(A1 * B1 * C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C0 * !C1 * !Y)	0.00029	0.00029	0.00030
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	-0.00009	-0.00008	-0.00007
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	0.00029	0.00029	0.00029
	(A1 * B0 * !B1 * C1 * !Y)	-0.00009	-0.00008	-0.00007
	(A1 * B0 * !B1 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C1 * !Y)	0.00029	0.00029	0.00030
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	-0.00009	-0.00008	-0.00007
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	0.00029	0.00029	0.00029
	(A1 * !B0 * !B1 * Y)	-0.00009	-0.00008	-0.00007
	(A1 * !B0 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * Y)	0.00029	0.00029	0.00029
	(!A1 * B1 * !C0 * !C1 * Y)	-0.00011	-0.00011	-0.00011
	(!A1 * B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B1 * !C0 * !C1 * Y)	0.00001	0.00002	0.00003
	(!A1 * B1 * !C0 * !C1 * Y)	0.00023	0.00024	0.00024
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	-0.00011	-0.00011	-0.00011
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	0.00023	0.00024	0.00024
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00011	-0.00011	-0.00011
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * C1 * Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !B1 * C1 * Y)	0.00024	0.00024	0.00024
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	-0.00011	-0.00011	-0.00011
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	0.00024	0.00024	0.00024
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00011	-0.00011	-0.00011
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	0.00024	0.00024	0.00024

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X0P5H7H	**(A1 * B1 * C1 * !Y)**	0.00009	0.00009	0.00009
	(A1 * B1 * C1 * !Y)	0.00002	0.00002	0.00002
	(A1 * B1 * C1 * !Y)	-0.00001	-0.00000	0.00000
	(A1 * B1 * C1 * !Y)	-0.00029	-0.00029	-0.00029
	(A1 * B1 * C0 * !C1 * !Y)	0.00009	0.00009	0.00009
	(A1 * B1 * C0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A1 * B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B1 * C0 * !C1 * !Y)	-0.00029	-0.00029	-0.00028
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	0.00009	0.00009	0.00009
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	-0.00029	-0.00029	-0.00029
	(A1 * B0 * !B1 * C1 * !Y)	0.00009	0.00009	0.00009
	(A1 * B0 * !B1 * C1 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !B1 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !B1 * C1 * !Y)	-0.00029	-0.00029	-0.00029
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	0.00009	0.00009	0.00009
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	-0.00029	-0.00029	-0.00029
	(A1 * !B0 * !B1 * Y)	0.00009	0.00009	0.00009
	(A1 * !B0 * !B1 * Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * Y)	-0.00029	-0.00029	-0.00029
	(!A1 * B1 * !C0 * !C1 * Y)	0.00011	0.00011	0.00011
	(!A1 * B1 * !C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * B1 * !C0 * !C1 * Y)	-0.00003	-0.00002	-0.00001
	(!A1 * B1 * !C0 * !C1 * Y)	-0.00024	-0.00022	-0.00020
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	0.00011	0.00011	0.00011
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	-0.00024	-0.00022	-0.00020
	(!A1 * !B0 * !B1 * C1 * Y)	0.00011	0.00011	0.00011
	(!A1 * !B0 * !B1 * C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00024	-0.00022	-0.00020
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	0.00011	0.00011	0.00011
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	-0.00024	-0.00022	-0.00020
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	0.00011	0.00011	0.00011
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00024	-0.00022	-0.00020

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X0P5H7H	**(A0 * B1 * C1 * !Y)**	-0.00000	0.00000	0.00000
	(A0 * B1 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B1 * C1 * !Y)	0.00030	0.00030	0.00030
	(A0 * B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * B1 * C0 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !C1 * !Y)	0.00030	0.00030	0.00030
	(A0 * B1 * !C0 * !C1 * Y)	-0.00012	-0.00011	-0.00010
	(A0 * B1 * !C0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00001
	(A0 * B1 * !C0 * !C1 * Y)	0.00024	0.00024	0.00024
	(A0 * B0 * !B1 * C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C1 * !Y)	0.00030	0.00030	0.00030
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	0.00030	0.00030	0.00030
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00012	-0.00011	-0.00010
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00003	-0.00002	-0.00002
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00024	0.00024	0.00024
	(A0 * !B0 * !B1 * C1 * Y)	-0.00012	-0.00011	-0.00010
	(A0 * !B0 * !B1 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00001
	(A0 * !B0 * !B1 * C1 * Y)	0.00024	0.00024	0.00024
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00012	-0.00011	-0.00010
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00003	-0.00002	-0.00002
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00024	0.00024	0.00024
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00012	-0.00011	-0.00010
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00024	0.00024	0.00024
	(!A0 * B1 * !C0 * !C1 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B1 * !C0 * !C1 * Y)	0.00001	0.00002	0.00002
	(!A0 * B1 * !C0 * !C1 * Y)	0.00018	0.00018	0.00019
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00001	0.00002	0.00002
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00018	0.00018	0.00019
	(!A0 * !B0 * !B1 * C1 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !B0 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * C1 * Y)	0.00001	0.00002	0.00002
	(!A0 * !B0 * !B1 * C1 * Y)	0.00019	0.00019	0.00019
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00001	0.00002	0.00002
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00018	0.00019	0.00019
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00001	0.00002	0.00002
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00019	0.00019	0.00019

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X0P5H7H	**(A0 * B1 * C1 * !Y)**	-0.00000	-0.00000	0.00000
	(A0 * B1 * C1 * !Y)	0.00003	0.00003	0.00003
	(A0 * B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * C1 * !Y)	-0.00030	-0.00030	-0.00030
	(A0 * B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !C1 * !Y)	0.00003	0.00003	0.00003
	(A0 * B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * C0 * !C1 * !Y)	-0.00030	-0.00030	-0.00030
	(A0 * B1 * !C0 * !C1 * Y)	0.00012	0.00012	0.00012
	(A0 * B1 * !C0 * !C1 * Y)	0.00002	0.00002	0.00002
	(A0 * B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * !C0 * !C1 * Y)	-0.00024	-0.00024	-0.00023
	(A0 * B0 * !B1 * C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C1 * !Y)	0.00003	0.00003	0.00003
	(A0 * B0 * !B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !B1 * C1 * !Y)	-0.00030	-0.00030	-0.00030
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	0.00003	0.00003	0.00003
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	-0.00030	-0.00030	-0.00030
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00011	0.00012	0.00012
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00002	0.00002	0.00003
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00024	-0.00024	-0.00024
	(A0 * !B0 * !B1 * C1 * Y)	0.00012	0.00012	0.00012
	(A0 * !B0 * !B1 * C1 * Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !B1 * C1 * Y)	-0.00024	-0.00024	-0.00024
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00012	0.00012	0.00012
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00002	0.00002	0.00003
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00024	-0.00024	-0.00024
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00012	0.00012	0.00012
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00024	-0.00024	-0.00024
	(!A0 * B1 * !C0 * !C1 * Y)	0.00014	0.00014	0.00014
	(!A0 * B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * B1 * !C0 * !C1 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * B1 * !C0 * !C1 * Y)	-0.00019	-0.00017	-0.00014
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00014	0.00014	0.00014
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00019	-0.00017	-0.00015
	(!A0 * !B0 * !B1 * C1 * Y)	0.00014	0.00014	0.00014
	(!A0 * !B0 * !B1 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * C1 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B0 * !B1 * C1 * Y)	-0.00019	-0.00017	-0.00015
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00014	0.00014	0.00014
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00019	-0.00017	-0.00015
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00014	0.00014	0.00014
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00019	-0.00017	-0.00015

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X0P5H7H	**(A1 * B1 * C1 * !Y)**	-0.00009	-0.00008	-0.00007
	(A1 * B1 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C1 * !Y)	0.00033	0.00033	0.00033
	(A1 * B1 * C0 * !C1 * !Y)	-0.00009	-0.00008	-0.00007
	(A1 * B1 * C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C0 * !C1 * !Y)	0.00033	0.00033	0.00033
	(A1 * !B1 * !C0 * !C1 * Y)	-0.00016	-0.00015	-0.00015
	(A1 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A1 * !B1 * !C0 * !C1 * Y)	0.00024	0.00024	0.00025
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	-0.00013	-0.00013	-0.00011
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00001
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	0.00028	0.00028	0.00028
	(A0 * !A1 * B1 * C1 * !Y)	-0.00009	-0.00008	-0.00007
	(A0 * !A1 * B1 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C1 * !Y)	0.00033	0.00033	0.00033
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00009	-0.00008	-0.00007
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00033	0.00033	0.00033
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00016	-0.00015	-0.00015
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00024	0.00024	0.00024
	(!A0 * !A1 * B1 * C1 * Y)	-0.00014	-0.00014	-0.00012
	(!A0 * !A1 * B1 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * C1 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * B1 * C1 * Y)	0.00008	0.00009	0.00009
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00014	-0.00014	-0.00013
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	0.00008	0.00009	0.00009
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	-0.00014	-0.00014	-0.00013
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	0.00009	0.00009	0.00009
	(!A0 * !A1 * !B1 * C1 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !A1 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B1 * C1 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !B1 * C1 * Y)	0.00008	0.00009	0.00009
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	0.00008	0.00008	0.00009
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00008	0.00009	0.00009

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X0P5H7H	**(A1 * B1 * C1 * !Y)**	0.00009	0.00009	0.00009
	(A1 * B1 * C1 * !Y)	0.00002	0.00002	0.00002
	(A1 * B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C1 * !Y)	-0.00033	-0.00033	-0.00032
	(A1 * B1 * C0 * !C1 * !Y)	0.00009	0.00009	0.00009
	(A1 * B1 * C0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A1 * B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C0 * !C1 * !Y)	-0.00033	-0.00033	-0.00033
	(A1 * !B1 * !C0 * !C1 * Y)	0.00015	0.00016	0.00016
	(A1 * !B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A1 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B1 * !C0 * !C1 * Y)	-0.00024	-0.00023	-0.00021
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	0.00013	0.00013	0.00013
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	0.00002	0.00002	0.00002
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	-0.00028	-0.00028	-0.00028
	(A0 * !A1 * B1 * C1 * !Y)	0.00009	0.00009	0.00009
	(A0 * !A1 * B1 * C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * C1 * !Y)	-0.00033	-0.00032	-0.00032
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00009	0.00009	0.00009
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00033	-0.00032	-0.00032
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00015	0.00016	0.00016
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00024	-0.00023	-0.00020
	(!A0 * !A1 * B1 * C1 * Y)	0.00014	0.00015	0.00015
	(!A0 * !A1 * B1 * C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * B1 * C1 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	0.00014	0.00015	0.00015
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00009	-0.00009	-0.00008
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	0.00014	0.00014	0.00014
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	-0.00009	-0.00009	-0.00008
	(!A0 * !A1 * !B1 * C1 * Y)	0.00016	0.00016	0.00016
	(!A0 * !A1 * !B1 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B1 * C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !B1 * C1 * Y)	-0.00009	-0.00009	-0.00008
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	0.00016	0.00016	0.00016
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	0.00001	0.00001	0.00002
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00016	0.00016	0.00016
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00009	-0.00009	-0.00008

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X0P5H7H	**(A1 * B0 * C1 * !Y)**	-0.00000	-0.00000	0.00000
	(A1 * B0 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * C1 * !Y)	0.00000	0.00000	0.00001
	(A1 * B0 * C1 * !Y)	0.00031	0.00031	0.00031
	(A1 * B0 * C0 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !C1 * !Y)	0.00031	0.00031	0.00031
	(A1 * B0 * !C0 * !C1 * Y)	-0.00013	-0.00012	-0.00011
	(A1 * B0 * !C0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !C0 * !C1 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * !C0 * !C1 * Y)	0.00023	0.00023	0.00023
	(A1 * !B0 * !C0 * !C1 * Y)	-0.00016	-0.00015	-0.00015
	(A1 * !B0 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !C0 * !C1 * Y)	0.00019	0.00019	0.00020
	(A0 * !A1 * B0 * C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * B0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C1 * !Y)	0.00031	0.00031	0.00031
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00031	0.00031	0.00031
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00013	-0.00012	-0.00011
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00023	0.00023	0.00023
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00016	-0.00015	-0.00015
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00019	0.00019	0.00020
	(!A0 * !A1 * B0 * C1 * Y)	-0.00014	-0.00013	-0.00012
	(!A0 * !A1 * B0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * C1 * Y)	0.00004	0.00003	0.00004
	(!A0 * !A1 * B0 * C1 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00014	-0.00013	-0.00012
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00003	-0.00002	-0.00002
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	0.00003	0.00003	0.00004
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	0.00004	0.00005	0.00005
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00014	-0.00013	-0.00012
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00004	0.00005	0.00005
	(!A0 * !A1 * !B0 * C1 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !A1 * !B0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * C1 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !B0 * C1 * Y)	0.00004	0.00005	0.00005
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	0.00004	0.00005	0.00005
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00005	0.00005	0.00005

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X0P5H7H	**(A1 * B0 * C1 * !Y)**	-0.00000	0.00000	0.00000
	(A1 * B0 * C1 * !Y)	0.00003	0.00003	0.00003
	(A1 * B0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C1 * !Y)	-0.00031	-0.00031	-0.00031
	(A1 * B0 * C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * C0 * !C1 * !Y)	0.00003	0.00003	0.00003
	(A1 * B0 * C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * !C1 * !Y)	-0.00031	-0.00031	-0.00030
	(A1 * B0 * !C0 * !C1 * Y)	0.00013	0.00013	0.00013
	(A1 * B0 * !C0 * !C1 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * !C1 * Y)	-0.00023	-0.00023	-0.00023
	(A1 * !B0 * !C0 * !C1 * Y)	0.00016	0.00016	0.00016
	(A1 * !B0 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !C0 * !C1 * Y)	-0.00019	-0.00018	-0.00016
	(A0 * !A1 * B0 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * B0 * C1 * !Y)	0.00003	0.00003	0.00003
	(A0 * !A1 * B0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * C1 * !Y)	-0.00031	-0.00031	-0.00030
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00003	0.00003	0.00003
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00031	-0.00031	-0.00031
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00013	0.00013	0.00013
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00001	0.00002	0.00002
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00023	-0.00023	-0.00023
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00016	0.00016	0.00016
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00019	-0.00018	-0.00016
	(!A0 * !A1 * B0 * C1 * Y)	0.00014	0.00014	0.00014
	(!A0 * !A1 * B0 * C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * C1 * Y)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * B0 * C1 * Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	0.00014	0.00014	0.00014
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	0.00002	0.00002	0.00003
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00014	0.00014	0.00014
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !A1 * !B0 * C1 * Y)	0.00016	0.00016	0.00016
	(!A0 * !A1 * !B0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !B0 * C1 * Y)	-0.00004	-0.00005	-0.00004
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	0.00016	0.00016	0.00016
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00016	0.00016	0.00016
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00005	-0.00005	-0.00005

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X0P5H7H	**(A1 * B1 * C1 * !Y)**	-0.00009	-0.00008	-0.00007
	(A1 * B1 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C1 * !Y)	0.00028	0.00028	0.00028
	(A1 * B0 * !B1 * C1 * !Y)	-0.00009	-0.00008	-0.00007
	(A1 * B0 * !B1 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C1 * !Y)	0.00028	0.00028	0.00029
	(A1 * !B0 * !B1 * C1 * Y)	-0.00019	-0.00018	-0.00017
	(A1 * !B0 * !B1 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !B1 * C1 * Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !B1 * C1 * Y)	0.00009	0.00009	0.00009
	(A1 * !B0 * !B1 * !C1 * Y)	-0.00021	-0.00021	-0.00021
	(A1 * !B0 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * !C1 * Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !B1 * !C1 * Y)	0.00009	0.00009	0.00009
	(A0 * !A1 * B1 * C1 * !Y)	-0.00009	-0.00008	-0.00007
	(A0 * !A1 * B1 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C1 * !Y)	0.00028	0.00028	0.00029
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00009	-0.00008	-0.00007
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00028	0.00028	0.00028
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00019	-0.00018	-0.00017
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !B1 * C1 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !B1 * C1 * Y)	0.00009	0.00009	0.00009
	(!A1 * !B0 * !B1 * !C1 * Y)	-0.00021	-0.00021	-0.00021
	(!A1 * !B0 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !B1 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !B1 * !C1 * Y)	0.00009	0.00009	0.00009
	(!A0 * !A1 * B1 * C1 * Y)	-0.00019	-0.00018	-0.00017
	(!A0 * !A1 * B1 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * C1 * Y)	0.00009	0.00009	0.00009
	(!A0 * !A1 * B1 * !C1 * Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !A1 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * !C1 * Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00019	-0.00018	-0.00017
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	0.00008	0.00009	0.00009
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	0.00008	0.00008	0.00008

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X0P5H7H	**(A1 * B1 * C1 * !Y)**	0.00009	0.00009	0.00009
	(A1 * B1 * C1 * !Y)	0.00002	0.00002	0.00002
	(A1 * B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C1 * !Y)	-0.00028	-0.00028	-0.00028
	(A1 * B0 * !B1 * C1 * !Y)	0.00009	0.00009	0.00009
	(A1 * B0 * !B1 * C1 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * C1 * !Y)	-0.00028	-0.00028	-0.00028
	(A1 * !B0 * !B1 * C1 * Y)	0.00019	0.00019	0.00019
	(A1 * !B0 * !B1 * C1 * Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !B1 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !B1 * C1 * Y)	-0.00009	-0.00009	-0.00009
	(A1 * !B0 * !B1 * !C1 * Y)	0.00021	0.00021	0.00021
	(A1 * !B0 * !B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !B1 * !C1 * Y)	-0.00009	-0.00009	-0.00009
	(A0 * !A1 * B1 * C1 * !Y)	0.00009	0.00009	0.00009
	(A0 * !A1 * B1 * C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * C1 * !Y)	-0.00028	-0.00028	-0.00028
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00009	0.00009	0.00009
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00028	-0.00028	-0.00028
	(!A1 * !B0 * !B1 * C1 * Y)	0.00019	0.00019	0.00019
	(!A1 * !B0 * !B1 * C1 * Y)	0.00002	0.00002	0.00003
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00009	-0.00009	-0.00009
	(!A1 * !B0 * !B1 * !C1 * Y)	0.00021	0.00021	0.00021
	(!A1 * !B0 * !B1 * !C1 * Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * !B1 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !B1 * !C1 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * B1 * C1 * Y)	0.00019	0.00019	0.00019
	(!A0 * !A1 * B1 * C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * C1 * Y)	-0.00009	-0.00009	-0.00008
	(!A0 * !A1 * B1 * !C1 * Y)	0.00021	0.00021	0.00021
	(!A0 * !A1 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * !C1 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	0.00019	0.00019	0.00019
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	0.00002	0.00002	0.00003
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00009	-0.00009	-0.00008
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	0.00021	0.00021	0.00021
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	0.00001	0.00001	0.00002
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	-0.00008	-0.00008	-0.00008

Passive power(pJ) for C1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X0P5H7H	**(A1 * B1 * C0 * !Y)**	-0.00000	0.00000	0.00000
	(A1 * B1 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C0 * !Y)	0.00033	0.00033	0.00033
	(A1 * B0 * !B1 * C0 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C0 * !Y)	0.00033	0.00033	0.00033
	(A1 * !B0 * !B1 * C0 * Y)	-0.00024	-0.00023	-0.00022
	(A1 * !B0 * !B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !B1 * C0 * Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !B1 * C0 * Y)	0.00005	0.00005	0.00005
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00026	-0.00026	-0.00026
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !B1 * !C0 * Y)	0.00005	0.00005	0.00005
	(A0 * !A1 * B1 * C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * B1 * C0 * !Y)	0.00000	0.00000	0.00001
	(A0 * !A1 * B1 * C0 * !Y)	0.00033	0.00033	0.00033
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00001
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00033	0.00033	0.00033
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00024	-0.00023	-0.00022
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00003	-0.00002	-0.00002
	(!A1 * !B0 * !B1 * C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !B1 * C0 * Y)	0.00005	0.00005	0.00005
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00026	-0.00026	-0.00026
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B1 * C0 * Y)	-0.00024	-0.00023	-0.00022
	(!A0 * !A1 * B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * C0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00026	-0.00026	-0.00026
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * !C0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00024	-0.00023	-0.00022
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	-0.00026	-0.00026	-0.00026
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	0.00004	0.00004	0.00004

Passive power(pJ) for C1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

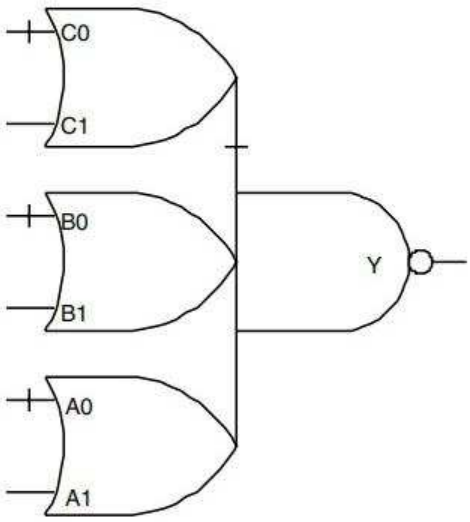
OAI222X0P5H7H	**(A1 * B1 * C0 * !Y)**	-0.00000	0.00000	0.00000
	(A1 * B1 * C0 * !Y)	0.00003	0.00003	0.00003
	(A1 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C0 * !Y)	-0.00033	-0.00033	-0.00033
	(A1 * B0 * !B1 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !B1 * C0 * !Y)	0.00003	0.00003	0.00003
	(A1 * B0 * !B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * C0 * !Y)	-0.00033	-0.00033	-0.00033
	(A1 * !B0 * !B1 * C0 * Y)	0.00024	0.00024	0.00024
	(A1 * !B0 * !B1 * C0 * Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !B1 * C0 * Y)	-0.00005	-0.00005	-0.00004
	(A1 * !B0 * !B1 * !C0 * Y)	0.00026	0.00026	0.00026
	(A1 * !B0 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00005	-0.00005	-0.00005
	(A0 * !A1 * B1 * C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C0 * !Y)	0.00003	0.00003	0.00003
	(A0 * !A1 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * C0 * !Y)	-0.00033	-0.00033	-0.00033
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00003	0.00003	0.00003
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00001	-0.00000	-0.00000
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00033	-0.00033	-0.00033
	(!A1 * !B0 * !B1 * C0 * Y)	0.00024	0.00024	0.00024
	(!A1 * !B0 * !B1 * C0 * Y)	0.00002	0.00002	0.00003
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00005	-0.00005	-0.00005
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00026	0.00026	0.00026
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B1 * C0 * Y)	0.00024	0.00024	0.00024
	(!A0 * !A1 * B1 * C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * B1 * !C0 * Y)	0.00026	0.00026	0.00026
	(!A0 * !A1 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	0.00024	0.00024	0.00024
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	0.00002	0.00002	0.00003
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	0.00026	0.00026	0.00026
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	-0.00004	-0.00004	-0.00004

OAI222X0P7H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI222 cell provides the logical inverted AND of three OR groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT						OUTPUT
A0	A1	B0	B1	C0	C1	Y
0	0	x	x	x	x	1
x	1	0	0	x	x	1
x	1	x	1	0	0	1
x	1	x	1	x	1	0
x	1	x	1	1	x	0
x	1	1	x	0	0	1
x	1	1	x	x	1	0
x	1	1	x	1	x	0
1	x	0	0	x	x	1
1	x	x	1	0	0	1
1	x	x	1	x	1	0
1	x	x	1	1	x	0
1	x	1	x	0	0	1
1	x	1	x	x	1	0
1	x	1	x	1	x	0

Footprint

Cell Name	Area
OAI222X0P7H7H	3.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	A1	B0	B1	C0	C1	Y
OAI222X0P7H7H	0.00079	0.00091	0.00086	0.00092	0.00086	0.00101	0.01572

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI222X0P7H7H	0.00000	0.01451	0.02249

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI222X0P7H7H	A0->Y (FR)	0.09057	0.26445	0.74703
	A1->Y (FR)	0.08957	0.25982	0.73900
	B0->Y (FR)	0.07907	0.24972	0.73162
	B1->Y (FR)	0.07536	0.24248	0.72196
	C0->Y (FR)	0.05862	0.22523	0.70814
	C1->Y (FR)	0.05701	0.21970	0.70133

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI222X0P7H7H	A0->Y (RF)	0.09176	0.25385	0.68912
	A1->Y (RF)	0.08903	0.25022	0.68660
	B0->Y (RF)	0.08671	0.25159	0.71391
	B1->Y (RF)	0.08159	0.24551	0.70810
	C0->Y (RF)	0.06691	0.22606	0.68674
	C1->Y (RF)	0.06402	0.22183	0.68198

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI222X0P7H7H	A0	0.00215	0.00219	0.00221
	A0	-0.00015	-0.00015	-0.00014
	A0	0.00022	0.00022	0.00022
	A0	-0.00002	-0.00000	0.00002
	A1	0.00202	0.00206	0.00210
	A1	-0.00009	-0.00009	-0.00009
	A1	0.00022	0.00022	0.00022
	A1	0.00001	0.00004	0.00007
	B0	0.00188	0.00192	0.00195
	B0	-0.00015	-0.00015	-0.00014
	B0	0.00014	0.00014	0.00014
	B0	-0.00001	0.00003	0.00006
	B1	0.00171	0.00176	0.00179
	B1	-0.00010	-0.00010	-0.00008
	B1	0.00013	0.00014	0.00015
	B1	0.00002	0.00006	0.00009
	C0	0.00149	0.00153	0.00156
	C0	-0.00015	-0.00015	-0.00014
	C0	0.00004	0.00005	0.00008
	C0	-0.00009	-0.00005	-0.00002
	C1	0.00136	0.00140	0.00144
	C1	-0.00009	-0.00009	-0.00009
	C1	0.00005	0.00005	0.00007
	C1	-0.00005	-0.00001	0.00003

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI222X0P7H7H	A0	-0.00008	-0.00007	-0.00006
	A0	0.00025	0.00025	0.00025
	A0	-0.00021	-0.00020	-0.00020
	A0	0.00217	0.00221	0.00222
	A1	-0.00010	-0.00007	-0.00005
	A1	0.00020	0.00020	0.00020
	A1	-0.00021	-0.00020	-0.00020
	A1	0.00204	0.00208	0.00209
	B0	-0.00010	-0.00008	-0.00006
	B0	0.00025	0.00025	0.00025
	B0	-0.00013	-0.00013	-0.00013
	B0	0.00179	0.00181	0.00183
	B1	-0.00010	-0.00007	-0.00004
	B1	0.00020	0.00020	0.00020
	B1	-0.00013	-0.00013	-0.00012
	B1	0.00163	0.00167	0.00168
	C0	-0.00011	-0.00008	-0.00007
	C0	0.00025	0.00025	0.00025
	C0	-0.00005	-0.00005	-0.00003
	C0	0.00137	0.00142	0.00144
	C1	-0.00012	-0.00008	-0.00005
	C1	0.00019	0.00020	0.00021
	C1	-0.00005	-0.00005	-0.00004
	C1	0.00122	0.00128	0.00132

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X0P7H7H	**(A1 * B1 * C1 * !Y)**	-0.00010	-0.00009	-0.00008
	(A1 * B1 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B1 * C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B1 * C1 * !Y)	0.00030	0.00031	0.00031
	(A1 * B1 * C0 * !C1 * !Y)	-0.00010	-0.00009	-0.00008
	(A1 * B1 * C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B1 * C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B1 * C0 * !C1 * !Y)	0.00031	0.00031	0.00031
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	-0.00010	-0.00009	-0.00008
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	0.00030	0.00030	0.00031
	(A1 * B0 * !B1 * C1 * !Y)	-0.00010	-0.00009	-0.00008
	(A1 * B0 * !B1 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !B1 * C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !B1 * C1 * !Y)	0.00031	0.00031	0.00031
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	-0.00010	-0.00009	-0.00008
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	0.00031	0.00031	0.00031
	(A1 * !B0 * !B1 * Y)	-0.00010	-0.00009	-0.00008
	(A1 * !B0 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * Y)	0.00030	0.00030	0.00031
	(!A1 * B1 * !C0 * !C1 * Y)	-0.00012	-0.00012	-0.00012
	(!A1 * B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B1 * !C0 * !C1 * Y)	0.00001	0.00002	0.00003
	(!A1 * B1 * !C0 * !C1 * Y)	0.00025	0.00026	0.00026
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	-0.00012	-0.00012	-0.00012
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	0.00001	0.00002	0.00002
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	0.00026	0.00026	0.00026
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00012	-0.00012	-0.00012
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !B1 * C1 * Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !B1 * C1 * Y)	0.00026	0.00026	0.00026
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	-0.00012	-0.00012	-0.00012
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	0.00026	0.00026	0.00026
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00012	-0.00012	-0.00012
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	0.00026	0.00026	0.00026

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X0P7H7H	**(A1 * B1 * C1 * !Y)**	0.00010	0.00010	0.00010
	(A1 * B1 * C1 * !Y)	0.00002	0.00002	0.00002
	(A1 * B1 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B1 * C1 * !Y)	-0.00031	-0.00030	-0.00030
	(A1 * B1 * C0 * !C1 * !Y)	0.00010	0.00010	0.00010
	(A1 * B1 * C0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A1 * B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	0.00001
	(A1 * B1 * C0 * !C1 * !Y)	-0.00031	-0.00031	-0.00031
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	0.00010	0.00010	0.00010
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	-0.00031	-0.00030	-0.00030
	(A1 * B0 * !B1 * C1 * !Y)	0.00010	0.00010	0.00010
	(A1 * B0 * !B1 * C1 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !B1 * C1 * !Y)	-0.00031	-0.00030	-0.00029
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	0.00010	0.00010	0.00010
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	-0.00001	-0.00000	-0.00000
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	-0.00031	-0.00030	-0.00029
	(A1 * !B0 * !B1 * Y)	0.00010	0.00010	0.00010
	(A1 * !B0 * !B1 * Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * Y)	-0.00031	-0.00030	-0.00030
	(!A1 * B1 * !C0 * !C1 * Y)	0.00012	0.00012	0.00013
	(!A1 * B1 * !C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * B1 * !C0 * !C1 * Y)	-0.00003	-0.00002	-0.00001
	(!A1 * B1 * !C0 * !C1 * Y)	-0.00026	-0.00024	-0.00022
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	0.00012	0.00012	0.00012
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00002
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	-0.00026	-0.00024	-0.00022
	(!A1 * !B0 * !B1 * C1 * Y)	0.00012	0.00012	0.00012
	(!A1 * !B0 * !B1 * C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00026	-0.00025	-0.00023
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	0.00012	0.00012	0.00012
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	-0.00026	-0.00025	-0.00023
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	0.00012	0.00012	0.00012
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00026	-0.00025	-0.00022

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X0P7H7H	**(A0 * B1 * C1 * !Y)**	-0.00000	-0.00000	0.00000
	(A0 * B1 * C1 * !Y)	-0.00004	-0.00003	-0.00003
	(A0 * B1 * C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * B1 * C1 * !Y)	0.00034	0.00034	0.00035
	(A0 * B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * B1 * C0 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * B1 * C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * B1 * C0 * !C1 * !Y)	0.00034	0.00034	0.00035
	(A0 * B1 * !C0 * !C1 * Y)	-0.00014	-0.00013	-0.00012
	(A0 * B1 * !C0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B1 * !C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(A0 * B1 * !C0 * !C1 * Y)	0.00026	0.00026	0.00026
	(A0 * B0 * !B1 * C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C1 * !Y)	0.00034	0.00034	0.00035
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	0.00034	0.00034	0.00035
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00014	-0.00013	-0.00012
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00003	-0.00002	-0.00002
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00025	0.00026	0.00026
	(A0 * !B0 * !B1 * C1 * Y)	-0.00014	-0.00013	-0.00012
	(A0 * !B0 * !B1 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00001
	(A0 * !B0 * !B1 * C1 * Y)	0.00025	0.00026	0.00026
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00014	-0.00013	-0.00012
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00003	-0.00002	-0.00002
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00025	0.00026	0.00026
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00014	-0.00014	-0.00012
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00025	0.00026	0.00026
	(!A0 * B1 * !C0 * !C1 * Y)	-0.00017	-0.00017	-0.00017
	(!A0 * B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B1 * !C0 * !C1 * Y)	0.00001	0.00002	0.00003
	(!A0 * B1 * !C0 * !C1 * Y)	0.00020	0.00020	0.00021
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00017	-0.00017	-0.00017
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00001	0.00002	0.00002
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00021	0.00021	0.00021
	(!A0 * !B0 * !B1 * C1 * Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !B0 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * !B1 * C1 * Y)	0.00021	0.00021	0.00021
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00021	0.00021	0.00021
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00021	0.00021	0.00021

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X0P7H7H	**(A0 * B1 * C1 * !Y)**	-0.00000	0.00000	0.00000
	(A0 * B1 * C1 * !Y)	0.00004	0.00004	0.00004
	(A0 * B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * C1 * !Y)	-0.00035	-0.00034	-0.00034
	(A0 * B1 * C0 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !C1 * !Y)	0.00004	0.00004	0.00004
	(A0 * B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * C0 * !C1 * !Y)	-0.00035	-0.00034	-0.00034
	(A0 * B1 * !C0 * !C1 * Y)	0.00014	0.00014	0.00014
	(A0 * B1 * !C0 * !C1 * Y)	0.00002	0.00002	0.00002
	(A0 * B1 * !C0 * !C1 * Y)	-0.00001	-0.00000	-0.00000
	(A0 * B1 * !C0 * !C1 * Y)	-0.00026	-0.00026	-0.00026
	(A0 * B0 * !B1 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * !B1 * C1 * !Y)	0.00003	0.00003	0.00004
	(A0 * B0 * !B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !B1 * C1 * !Y)	-0.00035	-0.00034	-0.00034
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	0.00003	0.00003	0.00004
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	-0.00035	-0.00034	-0.00034
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00014	0.00014	0.00014
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00002	0.00002	0.00003
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00026	-0.00026	-0.00025
	(A0 * !B0 * !B1 * C1 * Y)	0.00014	0.00014	0.00014
	(A0 * !B0 * !B1 * C1 * Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !B1 * C1 * Y)	-0.00026	-0.00026	-0.00025
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00014	0.00014	0.00014
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00002	0.00003	0.00003
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00026	-0.00026	-0.00025
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00014	0.00014	0.00014
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00026	-0.00026	-0.00025
	(!A0 * B1 * !C0 * !C1 * Y)	0.00017	0.00017	0.00017
	(!A0 * B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * B1 * !C0 * !C1 * Y)	-0.00003	-0.00002	-0.00001
	(!A0 * B1 * !C0 * !C1 * Y)	-0.00021	-0.00019	-0.00017
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00017	0.00017	0.00017
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00021	-0.00019	-0.00017
	(!A0 * !B0 * !B1 * C1 * Y)	0.00017	0.00017	0.00017
	(!A0 * !B0 * !B1 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * !B1 * C1 * Y)	-0.00021	-0.00019	-0.00017
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00017	0.00017	0.00017
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00021	-0.00020	-0.00017
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00017	0.00017	0.00017
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00021	-0.00019	-0.00017

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X0P7H7H	**(A1 * B1 * C1 * !Y)**	-0.00010	-0.00009	-0.00008
	(A1 * B1 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B1 * C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B1 * C1 * !Y)	0.00031	0.00031	0.00032
	(A1 * B1 * C0 * !C1 * !Y)	-0.00010	-0.00009	-0.00008
	(A1 * B1 * C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B1 * C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B1 * C0 * !C1 * !Y)	0.00031	0.00031	0.00032
	(A1 * !B1 * !C0 * !C1 * Y)	-0.00016	-0.00015	-0.00015
	(A1 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A1 * !B1 * !C0 * !C1 * Y)	0.00024	0.00024	0.00025
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	-0.00013	-0.00012	-0.00011
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	0.00028	0.00028	0.00028
	(A0 * !A1 * B1 * C1 * !Y)	-0.00010	-0.00009	-0.00008
	(A0 * !A1 * B1 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C1 * !Y)	0.00031	0.00031	0.00031
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00010	-0.00009	-0.00008
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00000	0.00001	0.00002
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00031	0.00031	0.00031
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00016	-0.00015	-0.00015
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00024	0.00024	0.00024
	(!A0 * !A1 * B1 * C1 * Y)	-0.00014	-0.00013	-0.00011
	(!A0 * !A1 * B1 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * C1 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * B1 * C1 * Y)	0.00010	0.00010	0.00010
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00014	-0.00013	-0.00011
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00003	-0.00002	-0.00002
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	0.00010	0.00010	0.00010
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	-0.00014	-0.00013	-0.00012
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	0.00010	0.00010	0.00010
	(!A0 * !A1 * !B1 * C1 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !A1 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B1 * C1 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !B1 * C1 * Y)	0.00010	0.00010	0.00010
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	0.00010	0.00010	0.00010
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00010	0.00010	0.00010

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X0P7H7H	**(A1 * B1 * C1 * !Y)**	0.00010	0.00010	0.00010
	(A1 * B1 * C1 * !Y)	0.00002	0.00002	0.00002
	(A1 * B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C1 * !Y)	-0.00031	-0.00031	-0.00031
	(A1 * B1 * C0 * !C1 * !Y)	0.00010	0.00010	0.00010
	(A1 * B1 * C0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A1 * B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C0 * !C1 * !Y)	-0.00031	-0.00031	-0.00031
	(A1 * !B1 * !C0 * !C1 * Y)	0.00015	0.00015	0.00016
	(A1 * !B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00002
	(A1 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B1 * !C0 * !C1 * Y)	-0.00024	-0.00023	-0.00021
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	0.00013	0.00013	0.00013
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	0.00002	0.00002	0.00002
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	-0.00028	-0.00028	-0.00028
	(A0 * !A1 * B1 * C1 * !Y)	0.00010	0.00010	0.00010
	(A0 * !A1 * B1 * C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * C1 * !Y)	-0.00031	-0.00031	-0.00031
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00010	0.00010	0.00010
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00001	-0.00000	-0.00000
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00031	-0.00031	-0.00031
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00016	0.00016	0.00016
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00024	-0.00023	-0.00021
	(!A0 * !A1 * B1 * C1 * Y)	0.00014	0.00014	0.00014
	(!A0 * !A1 * B1 * C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * B1 * C1 * Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	0.00014	0.00014	0.00014
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	0.00002	0.00002	0.00003
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	0.00013	0.00014	0.00014
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !A1 * !B1 * C1 * Y)	0.00016	0.00016	0.00016
	(!A0 * !A1 * !B1 * C1 * Y)	0.00001	0.00001	0.00002
	(!A0 * !A1 * !B1 * C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !B1 * C1 * Y)	-0.00010	-0.00010	-0.00009
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	0.00016	0.00016	0.00016
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00016	0.00016	0.00016
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00010	-0.00010	-0.00010

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X0P7H7H	**(A1 * B0 * C1 * !Y)**	-0.00000	-0.00000	0.00000
	(A1 * B0 * C1 * !Y)	-0.00004	-0.00003	-0.00003
	(A1 * B0 * C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * C1 * !Y)	0.00033	0.00033	0.00033
	(A1 * B0 * C0 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * C0 * !C1 * !Y)	0.00032	0.00033	0.00033
	(A1 * B0 * !C0 * !C1 * Y)	-0.00013	-0.00012	-0.00011
	(A1 * B0 * !C0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !C0 * !C1 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * !C0 * !C1 * Y)	0.00025	0.00025	0.00025
	(A1 * !B0 * !C0 * !C1 * Y)	-0.00016	-0.00016	-0.00016
	(A1 * !B0 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !C0 * !C1 * Y)	0.00001	0.00001	0.00002
	(A1 * !B0 * !C0 * !C1 * Y)	0.00021	0.00021	0.00022
	(A0 * !A1 * B0 * C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * B0 * C1 * !Y)	0.00000	0.00000	0.00001
	(A0 * !A1 * B0 * C1 * !Y)	0.00032	0.00033	0.00033
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00033	0.00033	0.00033
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00013	-0.00012	-0.00011
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00003	-0.00002	-0.00002
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00025	0.00025	0.00025
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00016	-0.00016	-0.00016
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00001	-0.00001	0.00000
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00021	0.00021	0.00022
	(!A0 * !A1 * B0 * C1 * Y)	-0.00014	-0.00013	-0.00012
	(!A0 * !A1 * B0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * C1 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * B0 * C1 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00014	-0.00013	-0.00012
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00003	-0.00002	-0.00002
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00014	-0.00013	-0.00012
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !B0 * C1 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !A1 * !B0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * C1 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !B0 * C1 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X0P7H7H	**(A1 * B0 * C1 * !Y)**	-0.00000	0.00000	0.00000
	(A1 * B0 * C1 * !Y)	0.00004	0.00004	0.00004
	(A1 * B0 * C1 * !Y)	-0.00001	-0.00000	-0.00000
	(A1 * B0 * C1 * !Y)	-0.00033	-0.00033	-0.00033
	(A1 * B0 * C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * C0 * !C1 * !Y)	0.00003	0.00004	0.00004
	(A1 * B0 * C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * !C1 * !Y)	-0.00033	-0.00033	-0.00032
	(A1 * B0 * !C0 * !C1 * Y)	0.00013	0.00013	0.00013
	(A1 * B0 * !C0 * !C1 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !C0 * !C1 * Y)	-0.00001	-0.00000	-0.00000
	(A1 * B0 * !C0 * !C1 * Y)	-0.00025	-0.00025	-0.00025
	(A1 * !B0 * !C0 * !C1 * Y)	0.00016	0.00016	0.00016
	(A1 * !B0 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !C0 * !C1 * Y)	-0.00002	-0.00001	-0.00001
	(A1 * !B0 * !C0 * !C1 * Y)	-0.00022	-0.00020	-0.00018
	(A0 * !A1 * B0 * C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C1 * !Y)	0.00003	0.00004	0.00004
	(A0 * !A1 * B0 * C1 * !Y)	-0.00001	-0.00000	-0.00000
	(A0 * !A1 * B0 * C1 * !Y)	-0.00033	-0.00033	-0.00032
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00004	0.00004	0.00004
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00033	-0.00033	-0.00033
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00013	0.00013	0.00013
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00002	0.00002	0.00003
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00025	-0.00025	-0.00025
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00016	0.00016	0.00016
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00022	-0.00020	-0.00018
	(!A0 * !A1 * B0 * C1 * Y)	0.00014	0.00014	0.00014
	(!A0 * !A1 * B0 * C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * B0 * C1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	0.00014	0.00014	0.00014
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	0.00002	0.00002	0.00003
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00014	0.00014	0.00014
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !B0 * C1 * Y)	0.00016	0.00016	0.00016
	(!A0 * !A1 * !B0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !B0 * C1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	0.00016	0.00016	0.00016
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00016	0.00016	0.00016
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X0P7H7H	**(A1 * B1 * C1 * !Y)**	-0.00010	-0.00009	-0.00008
	(A1 * B1 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C1 * !Y)	0.00032	0.00032	0.00033
	(A1 * B0 * !B1 * C1 * !Y)	-0.00010	-0.00009	-0.00008
	(A1 * B0 * !B1 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !B1 * C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !B1 * C1 * !Y)	0.00032	0.00032	0.00033
	(A1 * !B0 * !B1 * C1 * Y)	-0.00021	-0.00020	-0.00019
	(A1 * !B0 * !B1 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !B1 * C1 * Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !B1 * C1 * Y)	0.00011	0.00011	0.00011
	(A1 * !B0 * !B1 * !C1 * Y)	-0.00023	-0.00023	-0.00023
	(A1 * !B0 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * !C1 * Y)	0.00002	0.00003	0.00003
	(A1 * !B0 * !B1 * !C1 * Y)	0.00011	0.00011	0.00011
	(A0 * !A1 * B1 * C1 * !Y)	-0.00010	-0.00009	-0.00008
	(A0 * !A1 * B1 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C1 * !Y)	0.00032	0.00032	0.00033
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00010	-0.00009	-0.00008
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00000	0.00000	0.00001
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00032	0.00032	0.00033
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00021	-0.00020	-0.00019
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !B1 * C1 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !B1 * C1 * Y)	0.00011	0.00011	0.00011
	(!A1 * !B0 * !B1 * !C1 * Y)	-0.00023	-0.00023	-0.00023
	(!A1 * !B0 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * !C1 * Y)	0.00002	0.00003	0.00003
	(!A1 * !B0 * !B1 * !C1 * Y)	0.00011	0.00011	0.00011
	(!A0 * !A1 * B1 * C1 * Y)	-0.00021	-0.00020	-0.00019
	(!A0 * !A1 * B1 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * C1 * Y)	0.00002	0.00003	0.00002
	(!A0 * !A1 * B1 * C1 * Y)	0.00010	0.00010	0.00010
	(!A0 * !A1 * B1 * !C1 * Y)	-0.00023	-0.00023	-0.00023
	(!A0 * !A1 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * !C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B1 * !C1 * Y)	0.00010	0.00010	0.00010
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00021	-0.00020	-0.00019
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	0.00002	0.00003	0.00002
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	0.00010	0.00010	0.00010
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	-0.00023	-0.00023	-0.00023
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	0.00010	0.00010	0.00010

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X0P7H7H	**(A1 * B1 * C1 * !Y)**	0.00010	0.00010	0.00010
	(A1 * B1 * C1 * !Y)	0.00002	0.00002	0.00002
	(A1 * B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C1 * !Y)	-0.00032	-0.00032	-0.00032
	(A1 * B0 * !B1 * C1 * !Y)	0.00010	0.00010	0.00010
	(A1 * B0 * !B1 * C1 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * C1 * !Y)	-0.00033	-0.00032	-0.00032
	(A1 * !B0 * !B1 * C1 * Y)	0.00021	0.00021	0.00021
	(A1 * !B0 * !B1 * C1 * Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !B1 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !B1 * C1 * Y)	-0.00011	-0.00011	-0.00011
	(A1 * !B0 * !B1 * !C1 * Y)	0.00023	0.00023	0.00023
	(A1 * !B0 * !B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !B1 * !C1 * Y)	-0.00011	-0.00011	-0.00011
	(A0 * !A1 * B1 * C1 * !Y)	0.00010	0.00010	0.00010
	(A0 * !A1 * B1 * C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * C1 * !Y)	-0.00033	-0.00032	-0.00032
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00010	0.00010	0.00010
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00033	-0.00032	-0.00032
	(!A1 * !B0 * !B1 * C1 * Y)	0.00021	0.00021	0.00021
	(!A1 * !B0 * !B1 * C1 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00011	-0.00011	-0.00011
	(!A1 * !B0 * !B1 * !C1 * Y)	0.00023	0.00023	0.00023
	(!A1 * !B0 * !B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !B1 * !C1 * Y)	-0.00011	-0.00011	-0.00011
	(!A0 * !A1 * B1 * C1 * Y)	0.00021	0.00021	0.00021
	(!A0 * !A1 * B1 * C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * C1 * Y)	-0.00002	-0.00003	-0.00002
	(!A0 * !A1 * B1 * C1 * Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !A1 * B1 * !C1 * Y)	0.00023	0.00023	0.00023
	(!A0 * !A1 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B1 * !C1 * Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	0.00021	0.00021	0.00021
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00002	-0.00003	-0.00002
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	0.00023	0.00023	0.00023
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	-0.00010	-0.00010	-0.00010

Passive power(pJ) for C1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X0P7H7H	**(A1 * B1 * C0 * !Y)**	-0.00000	0.00000	0.00000
	(A1 * B1 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C0 * !Y)	0.00036	0.00036	0.00036
	(A1 * B0 * !B1 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !B1 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * !B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !B1 * C0 * !Y)	0.00036	0.00036	0.00036
	(A1 * !B0 * !B1 * C0 * Y)	-0.00026	-0.00025	-0.00024
	(A1 * !B0 * !B1 * C0 * Y)	-0.00003	-0.00002	-0.00002
	(A1 * !B0 * !B1 * C0 * Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !B1 * C0 * Y)	0.00006	0.00006	0.00006
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00029	-0.00028	-0.00028
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !B1 * !C0 * Y)	0.00006	0.00006	0.00006
	(A0 * !A1 * B1 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * B1 * C0 * !Y)	-0.00004	-0.00003	-0.00003
	(A0 * !A1 * B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * B1 * C0 * !Y)	0.00036	0.00036	0.00036
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00036	0.00036	0.00036
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00026	-0.00025	-0.00024
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00003	-0.00002	-0.00002
	(!A1 * !B0 * !B1 * C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !B1 * C0 * Y)	0.00006	0.00006	0.00006
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00029	-0.00028	-0.00028
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * B1 * C0 * Y)	-0.00026	-0.00025	-0.00024
	(!A0 * !A1 * B1 * C0 * Y)	-0.00003	-0.00002	-0.00002
	(!A0 * !A1 * B1 * C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * C0 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00029	-0.00028	-0.00028
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * !C0 * Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * B1 * !C0 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00026	-0.00025	-0.00024
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00003	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	-0.00028	-0.00028	-0.00028
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	0.00005	0.00005	0.00005

Passive power(pJ) for C1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

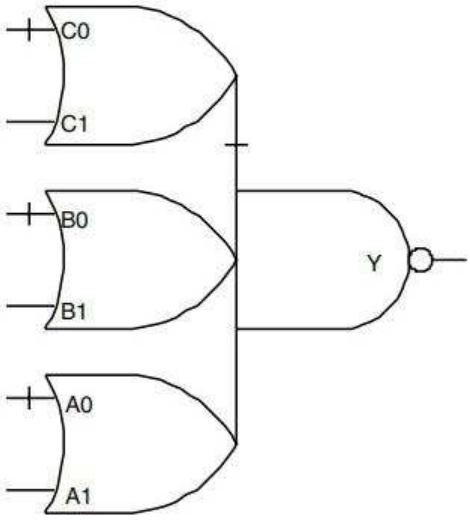
OAI222X0P7H7H	**(A1 * B1 * C0 * !Y)**	-0.00000	-0.00000	0.00000
	(A1 * B1 * C0 * !Y)	0.00003	0.00003	0.00003
	(A1 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C0 * !Y)	-0.00036	-0.00036	-0.00036
	(A1 * B0 * !B1 * C0 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C0 * !Y)	0.00003	0.00003	0.00004
	(A1 * B0 * !B1 * C0 * !Y)	-0.00001	-0.00000	-0.00000
	(A1 * B0 * !B1 * C0 * !Y)	-0.00036	-0.00036	-0.00036
	(A1 * !B0 * !B1 * C0 * Y)	0.00026	0.00026	0.00026
	(A1 * !B0 * !B1 * C0 * Y)	0.00002	0.00002	0.00003
	(A1 * !B0 * !B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !B1 * C0 * Y)	-0.00006	-0.00006	-0.00006
	(A1 * !B0 * !B1 * !C0 * Y)	0.00028	0.00028	0.00029
	(A1 * !B0 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00006	-0.00006	-0.00006
	(A0 * !A1 * B1 * C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C0 * !Y)	0.00003	0.00003	0.00004
	(A0 * !A1 * B1 * C0 * !Y)	-0.00001	-0.00000	-0.00000
	(A0 * !A1 * B1 * C0 * !Y)	-0.00036	-0.00036	-0.00036
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00003	0.00003	0.00003
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00036	-0.00036	-0.00036
	(!A1 * !B0 * !B1 * C0 * Y)	0.00026	0.00026	0.00026
	(!A1 * !B0 * !B1 * C0 * Y)	0.00002	0.00002	0.00003
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00006	-0.00006	-0.00006
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00028	0.00028	0.00029
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * B1 * C0 * Y)	0.00026	0.00026	0.00026
	(!A0 * !A1 * B1 * C0 * Y)	0.00002	0.00002	0.00003
	(!A0 * !A1 * B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * C0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B1 * !C0 * Y)	0.00028	0.00028	0.00029
	(!A0 * !A1 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	0.00026	0.00026	0.00026
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	0.00002	0.00002	0.00003
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	0.00028	0.00028	0.00029
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	0.00001	0.00001	0.00002
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	-0.00005	-0.00005	-0.00005

OAI222X1H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI222 cell provides the logical inverted AND of three OR groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT						OUTPUT
A0	A1	B0	B1	C0	C1	Y
0	0	x	x	x	x	1
x	1	0	0	x	x	1
x	1	x	1	0	0	1
x	1	x	1	x	1	0
x	1	x	1	1	x	0
x	1	1	x	0	0	1
x	1	1	x	x	1	0
x	1	1	x	1	x	0
1	x	0	0	x	x	1
1	x	x	1	0	0	1
1	x	x	1	x	1	0
1	x	x	1	1	x	0
1	x	1	x	0	0	1
1	x	1	x	x	1	0
1	x	1	x	1	x	0

Footprint

Cell Name	Area
OAI222X1H7H	3.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	A1	B0	B1	C0	C1	Y
OAI222X1H7H	0.00086	0.00095	0.00095	0.00096	0.00094	0.00103	0.01902

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI222X1H7H	0.00000	0.01804	0.02696

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI222X1H7H	A0->Y (FR)	0.08076	0.25638	0.74723
	A1->Y (FR)	0.07800	0.25003	0.73766
	B0->Y (FR)	0.07012	0.24235	0.73218
	B1->Y (FR)	0.06586	0.23444	0.72250
	C0->Y (FR)	0.05363	0.22239	0.71373
	C1->Y (FR)	0.05064	0.21509	0.70508

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI222X1H7H	A0->Y (RF)	0.08685	0.25640	0.71456
	A1->Y (RF)	0.08241	0.25104	0.70901
	B0->Y (RF)	0.08221	0.25361	0.73555
	B1->Y (RF)	0.07638	0.24672	0.72836
	C0->Y (RF)	0.06468	0.23038	0.70721
	C1->Y (RF)	0.06082	0.22495	0.70175

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI222X1H7H	A0	0.00237	0.00240	0.00242
	A0	-0.00018	-0.00018	-0.00018
	A0	0.00026	0.00026	0.00026
	A0	-0.00008	-0.00005	-0.00003
	A1	0.00215	0.00222	0.00225
	A1	-0.00011	-0.00011	-0.00011
	A1	0.00025	0.00025	0.00026
	A1	-0.00004	-0.00001	0.00002
	B0	0.00207	0.00211	0.00214
	B0	-0.00018	-0.00018	-0.00018
	B0	0.00016	0.00016	0.00018
	B0	-0.00006	-0.00001	0.00001
	B1	0.00185	0.00191	0.00194
	B1	-0.00011	-0.00011	-0.00010
	B1	0.00016	0.00016	0.00017
	B1	-0.00002	0.00002	0.00005
	C0	0.00170	0.00174	0.00177
	C0	-0.00018	-0.00018	-0.00018
	C0	0.00006	0.00006	0.00008
	C0	-0.00007	-0.00002	0.00001
	C1	0.00151	0.00157	0.00162
	C1	-0.00011	-0.00011	-0.00011
	C1	0.00005	0.00006	0.00008
	C1	-0.00004	0.00001	0.00005

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI222X1H7H	A0	-0.00010	-0.00009	-0.00008
	A0	0.00030	0.00031	0.00031
	A0	-0.00024	-0.00024	-0.00024
	A0	0.00244	0.00246	0.00248
	A1	-0.00012	-0.00008	-0.00006
	A1	0.00024	0.00024	0.00024
	A1	-0.00024	-0.00024	-0.00024
	A1	0.00225	0.00229	0.00230
	B0	-0.00012	-0.00010	-0.00008
	B0	0.00030	0.00031	0.00031
	B0	-0.00016	-0.00016	-0.00016
	B0	0.00198	0.00202	0.00204
	B1	-0.00013	-0.00009	-0.00006
	B1	0.00024	0.00024	0.00024
	B1	-0.00016	-0.00016	-0.00015
	B1	0.00179	0.00183	0.00185
	C0	-0.00013	-0.00010	-0.00008
	C0	0.00030	0.00030	0.00031
	C0	-0.00006	-0.00006	-0.00005
	C0	0.00151	0.00157	0.00160
	C1	-0.00015	-0.00010	-0.00007
	C1	0.00024	0.00024	0.00024
	C1	-0.00006	-0.00006	-0.00005
	C1	0.00134	0.00141	0.00144

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X1H7H	**(A1 * B1 * C1 * !Y)**	-0.00012	-0.00011	-0.00009
	(A1 * B1 * C1 * !Y)	-0.00003	-0.00003	-0.00002
	(A1 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B1 * C1 * !Y)	0.00031	0.00032	0.00032
	(A1 * B1 * C0 * !C1 * !Y)	-0.00012	-0.00011	-0.00009
	(A1 * B1 * C0 * !C1 * !Y)	-0.00003	-0.00003	-0.00002
	(A1 * B1 * C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B1 * C0 * !C1 * !Y)	0.00031	0.00032	0.00032
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	-0.00012	-0.00011	-0.00009
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	0.00031	0.00031	0.00032
	(A1 * B0 * !B1 * C1 * !Y)	-0.00012	-0.00011	-0.00009
	(A1 * B0 * !B1 * C1 * !Y)	-0.00003	-0.00003	-0.00002
	(A1 * B0 * !B1 * C1 * !Y)	0.00000	0.00000	0.00001
	(A1 * B0 * !B1 * C1 * !Y)	0.00031	0.00032	0.00032
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	-0.00012	-0.00011	-0.00009
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	-0.00003	-0.00003	-0.00002
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	0.00031	0.00032	0.00032
	(A1 * !B0 * !B1 * Y)	-0.00012	-0.00011	-0.00009
	(A1 * !B0 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * !B1 * Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * !B1 * Y)	0.00031	0.00031	0.00032
	(!A1 * B1 * !C0 * !C1 * Y)	-0.00015	-0.00015	-0.00015
	(!A1 * B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B1 * !C0 * !C1 * Y)	0.00001	0.00002	0.00002
	(!A1 * B1 * !C0 * !C1 * Y)	0.00025	0.00025	0.00026
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	-0.00015	-0.00015	-0.00015
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	0.00002	0.00002	0.00003
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	0.00025	0.00025	0.00026
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00015	-0.00015	-0.00015
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * C1 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !B1 * C1 * Y)	0.00025	0.00026	0.00026
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	-0.00015	-0.00015	-0.00015
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	0.00025	0.00026	0.00026
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00015	-0.00015	-0.00015
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	0.00025	0.00026	0.00026

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X1H7H	**(A1 * B1 * C1 * !Y)**	0.00012	0.00012	0.00012
	(A1 * B1 * C1 * !Y)	0.00002	0.00003	0.00003
	(A1 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B1 * C1 * !Y)	-0.00032	-0.00031	-0.00031
	(A1 * B1 * C0 * !C1 * !Y)	0.00012	0.00012	0.00012
	(A1 * B1 * C0 * !C1 * !Y)	0.00002	0.00003	0.00003
	(A1 * B1 * C0 * !C1 * !Y)	-0.00001	-0.00000	0.00001
	(A1 * B1 * C0 * !C1 * !Y)	-0.00032	-0.00031	-0.00031
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	0.00012	0.00012	0.00012
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	0.00003	0.00003	0.00003
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	-0.00032	-0.00031	-0.00031
	(A1 * B0 * !B1 * C1 * !Y)	0.00012	0.00012	0.00012
	(A1 * B0 * !B1 * C1 * !Y)	0.00002	0.00003	0.00003
	(A1 * B0 * !B1 * C1 * !Y)	-0.00001	-0.00000	0.00000
	(A1 * B0 * !B1 * C1 * !Y)	-0.00031	-0.00031	-0.00031
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	0.00012	0.00012	0.00012
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	0.00003	0.00003	0.00003
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	-0.00001	-0.00000	0.00000
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	-0.00032	-0.00032	-0.00031
	(A1 * !B0 * !B1 * Y)	0.00012	0.00012	0.00012
	(A1 * !B0 * !B1 * Y)	0.00003	0.00003	0.00003
	(A1 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * !B1 * Y)	-0.00031	-0.00031	-0.00031
	(!A1 * B1 * !C0 * !C1 * Y)	0.00015	0.00015	0.00015
	(!A1 * B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B1 * !C0 * !C1 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * B1 * !C0 * !C1 * Y)	-0.00025	-0.00023	-0.00021
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	0.00015	0.00015	0.00015
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00002
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	-0.00003	-0.00002	-0.00002
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	-0.00026	-0.00023	-0.00021
	(!A1 * !B0 * !B1 * C1 * Y)	0.00015	0.00015	0.00015
	(!A1 * !B0 * !B1 * C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00026	-0.00024	-0.00022
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	0.00015	0.00015	0.00015
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	-0.00026	-0.00024	-0.00022
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	0.00015	0.00015	0.00015
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00026	-0.00024	-0.00021

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X1H7H	**(A0 * B1 * C1 * !Y)**	-0.00000	0.00000	0.00000
	(A0 * B1 * C1 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * B1 * C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * B1 * C1 * !Y)	0.00034	0.00034	0.00034
	(A0 * B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * B1 * C0 * !C1 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * B1 * C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * B1 * C0 * !C1 * !Y)	0.00034	0.00034	0.00034
	(A0 * B1 * !C0 * !C1 * Y)	-0.00015	-0.00014	-0.00012
	(A0 * B1 * !C0 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * B1 * !C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(A0 * B1 * !C0 * !C1 * Y)	0.00026	0.00027	0.00027
	(A0 * B0 * !B1 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * !B1 * C1 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * B0 * !B1 * C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * B0 * !B1 * C1 * !Y)	0.00034	0.00034	0.00035
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	0.00034	0.00034	0.00035
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00015	-0.00014	-0.00012
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00026	0.00027	0.00027
	(A0 * !B0 * !B1 * C1 * Y)	-0.00015	-0.00014	-0.00012
	(A0 * !B0 * !B1 * C1 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * !B0 * !B1 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * C1 * Y)	0.00027	0.00027	0.00027
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00015	-0.00014	-0.00012
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00027	0.00027	0.00027
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00015	-0.00014	-0.00012
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00027	0.00027	0.00027
	(!A0 * B1 * !C0 * !C1 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B1 * !C0 * !C1 * Y)	0.00002	0.00002	0.00003
	(!A0 * B1 * !C0 * !C1 * Y)	0.00020	0.00020	0.00020
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00020	0.00020	0.00020
	(!A0 * !B0 * !B1 * C1 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !B0 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * !B1 * C1 * Y)	0.00020	0.00021	0.00021
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00021	0.00021	0.00021
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00020	0.00021	0.00021

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X1H7H	**(A0 * B1 * C1 * !Y)**	-0.00000	-0.00000	0.00000
	(A0 * B1 * C1 * !Y)	0.00004	0.00004	0.00004
	(A0 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * B1 * C1 * !Y)	-0.00034	-0.00034	-0.00034
	(A0 * B1 * C0 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !C1 * !Y)	0.00004	0.00004	0.00004
	(A0 * B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * B1 * C0 * !C1 * !Y)	-0.00034	-0.00034	-0.00034
	(A0 * B1 * !C0 * !C1 * Y)	0.00014	0.00015	0.00015
	(A0 * B1 * !C0 * !C1 * Y)	0.00003	0.00003	0.00003
	(A0 * B1 * !C0 * !C1 * Y)	-0.00001	-0.00000	-0.00000
	(A0 * B1 * !C0 * !C1 * Y)	-0.00027	-0.00026	-0.00026
	(A0 * B0 * !B1 * C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C1 * !Y)	0.00004	0.00004	0.00004
	(A0 * B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * !B1 * C1 * !Y)	-0.00034	-0.00034	-0.00034
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	0.00004	0.00004	0.00004
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	-0.00034	-0.00034	-0.00034
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00015	0.00015	0.00015
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00002	0.00003	0.00003
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00027	-0.00026	-0.00026
	(A0 * !B0 * !B1 * C1 * Y)	0.00014	0.00015	0.00015
	(A0 * !B0 * !B1 * C1 * Y)	0.00002	0.00003	0.00003
	(A0 * !B0 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * !B1 * C1 * Y)	-0.00027	-0.00026	-0.00026
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00014	0.00015	0.00015
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00003	0.00003	0.00003
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00027	-0.00027	-0.00026
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00015	0.00015	0.00015
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00003	0.00003	0.00003
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00027	-0.00027	-0.00027
	(!A0 * B1 * !C0 * !C1 * Y)	0.00018	0.00018	0.00018
	(!A0 * B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * B1 * !C0 * !C1 * Y)	-0.00003	-0.00002	-0.00002
	(!A0 * B1 * !C0 * !C1 * Y)	-0.00020	-0.00018	-0.00015
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00018	0.00018	0.00018
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00002
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00020	-0.00018	-0.00016
	(!A0 * !B0 * !B1 * C1 * Y)	0.00018	0.00018	0.00018
	(!A0 * !B0 * !B1 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * !B1 * C1 * Y)	-0.00021	-0.00019	-0.00016
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00018	0.00018	0.00018
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00021	-0.00019	-0.00016
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00018	0.00018	0.00018
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00021	-0.00019	-0.00016

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X1H7H	**(A1 * B1 * C1 * !Y)**	-0.00012	-0.00011	-0.00009
	(A1 * B1 * C1 * !Y)	-0.00003	-0.00003	-0.00002
	(A1 * B1 * C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B1 * C1 * !Y)	0.00035	0.00035	0.00035
	(A1 * B1 * C0 * !C1 * !Y)	-0.00012	-0.00011	-0.00009
	(A1 * B1 * C0 * !C1 * !Y)	-0.00003	-0.00003	-0.00002
	(A1 * B1 * C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B1 * C0 * !C1 * !Y)	0.00035	0.00035	0.00035
	(A1 * !B1 * !C0 * !C1 * Y)	-0.00019	-0.00019	-0.00019
	(A1 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B1 * !C0 * !C1 * Y)	0.00002	0.00002	0.00002
	(A1 * !B1 * !C0 * !C1 * Y)	0.00027	0.00027	0.00027
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	-0.00016	-0.00015	-0.00014
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	0.00031	0.00031	0.00031
	(A0 * !A1 * B1 * C1 * !Y)	-0.00012	-0.00011	-0.00009
	(A0 * !A1 * B1 * C1 * !Y)	-0.00003	-0.00003	-0.00002
	(A0 * !A1 * B1 * C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * B1 * C1 * !Y)	0.00035	0.00035	0.00035
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00012	-0.00011	-0.00009
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00003	-0.00003	-0.00002
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00035	0.00035	0.00035
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00019	-0.00019	-0.00019
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00027	0.00027	0.00027
	(!A0 * !A1 * B1 * C1 * Y)	-0.00017	-0.00016	-0.00015
	(!A0 * !A1 * B1 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B1 * C1 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B1 * C1 * Y)	0.00009	0.00009	0.00009
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00017	-0.00016	-0.00015
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	0.00009	0.00009	0.00009
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	-0.00017	-0.00016	-0.00015
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	0.00009	0.00009	0.00009
	(!A0 * !A1 * !B1 * C1 * Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !A1 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B1 * C1 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !B1 * C1 * Y)	0.00008	0.00009	0.00009
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	0.00009	0.00009	0.00009
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00009	0.00009	0.00009

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X1H7H	**(A1 * B1 * C1 * !Y)**	0.00012	0.00012	0.00012
	(A1 * B1 * C1 * !Y)	0.00002	0.00003	0.00003
	(A1 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B1 * C1 * !Y)	-0.00035	-0.00035	-0.00034
	(A1 * B1 * C0 * !C1 * !Y)	0.00012	0.00012	0.00012
	(A1 * B1 * C0 * !C1 * !Y)	0.00002	0.00003	0.00003
	(A1 * B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B1 * C0 * !C1 * !Y)	-0.00035	-0.00035	-0.00034
	(A1 * !B1 * !C0 * !C1 * Y)	0.00019	0.00019	0.00019
	(A1 * !B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A1 * !B1 * !C0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B1 * !C0 * !C1 * Y)	-0.00027	-0.00025	-0.00023
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	0.00016	0.00016	0.00016
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	0.00003	0.00003	0.00003
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	-0.00031	-0.00030	-0.00030
	(A0 * !A1 * B1 * C1 * !Y)	0.00012	0.00012	0.00012
	(A0 * !A1 * B1 * C1 * !Y)	0.00002	0.00003	0.00003
	(A0 * !A1 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B1 * C1 * !Y)	-0.00035	-0.00035	-0.00035
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00012	0.00012	0.00012
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00002	0.00003	0.00003
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00001	-0.00000	-0.00000
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00035	-0.00035	-0.00035
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00019	0.00019	0.00019
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00002
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00027	-0.00025	-0.00022
	(!A0 * !A1 * B1 * C1 * Y)	0.00017	0.00017	0.00018
	(!A0 * !A1 * B1 * C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B1 * C1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B1 * C1 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	0.00017	0.00018	0.00018
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	0.00017	0.00017	0.00018
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * !B1 * C1 * Y)	0.00020	0.00020	0.00020
	(!A0 * !A1 * !B1 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B1 * C1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !B1 * C1 * Y)	-0.00009	-0.00009	-0.00008
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	0.00020	0.00020	0.00021
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	0.00001	0.00001	0.00002
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00020	0.00020	0.00020
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00002
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00009	-0.00009	-0.00009

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X1H7H	**(A1 * B0 * C1 * !Y)**	-0.00000	-0.00000	0.00000
	(A1 * B0 * C1 * !Y)	-0.00004	-0.00004	-0.00004
	(A1 * B0 * C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * C1 * !Y)	0.00036	0.00036	0.00036
	(A1 * B0 * C0 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !C1 * !Y)	-0.00004	-0.00004	-0.00004
	(A1 * B0 * C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * C0 * !C1 * !Y)	0.00036	0.00036	0.00036
	(A1 * B0 * !C0 * !C1 * Y)	-0.00016	-0.00015	-0.00013
	(A1 * B0 * !C0 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * !C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !C0 * !C1 * Y)	0.00026	0.00026	0.00026
	(A1 * !B0 * !C0 * !C1 * Y)	-0.00020	-0.00019	-0.00019
	(A1 * !B0 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !C0 * !C1 * Y)	0.00001	0.00002	0.00002
	(A1 * !B0 * !C0 * !C1 * Y)	0.00022	0.00022	0.00023
	(A0 * !A1 * B0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C1 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * !A1 * B0 * C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * B0 * C1 * !Y)	0.00035	0.00036	0.00036
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00035	0.00036	0.00036
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00016	-0.00015	-0.00013
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00026	0.00026	0.00026
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00020	-0.00020	-0.00020
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00022	0.00022	0.00022
	(!A0 * !A1 * B0 * C1 * Y)	-0.00018	-0.00016	-0.00015
	(!A0 * !A1 * B0 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B0 * C1 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B0 * C1 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00018	-0.00016	-0.00015
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00018	-0.00016	-0.00015
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !B0 * C1 * Y)	-0.00021	-0.00020	-0.00020
	(!A0 * !A1 * !B0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * C1 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !B0 * C1 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	-0.00021	-0.00020	-0.00020
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00021	-0.00021	-0.00020
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00005	0.00005	0.00005

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X1H7H	**(A1 * B0 * C1 * !Y)**	-0.00000	0.00000	0.00000
	(A1 * B0 * C1 * !Y)	0.00004	0.00004	0.00004
	(A1 * B0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * C1 * !Y)	-0.00036	-0.00036	-0.00035
	(A1 * B0 * C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * C0 * !C1 * !Y)	0.00004	0.00004	0.00004
	(A1 * B0 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * C0 * !C1 * !Y)	-0.00036	-0.00036	-0.00035
	(A1 * B0 * !C0 * !C1 * Y)	0.00016	0.00016	0.00016
	(A1 * B0 * !C0 * !C1 * Y)	0.00003	0.00003	0.00003
	(A1 * B0 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !C0 * !C1 * Y)	-0.00026	-0.00026	-0.00026
	(A1 * !B0 * !C0 * !C1 * Y)	0.00020	0.00020	0.00020
	(A1 * !B0 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !C0 * !C1 * Y)	-0.00002	-0.00002	-0.00001
	(A1 * !B0 * !C0 * !C1 * Y)	-0.00023	-0.00021	-0.00019
	(A0 * !A1 * B0 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * B0 * C1 * !Y)	0.00004	0.00004	0.00004
	(A0 * !A1 * B0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B0 * C1 * !Y)	-0.00036	-0.00036	-0.00035
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00004	0.00004	0.00004
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00036	-0.00036	-0.00035
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00016	0.00016	0.00016
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00003	0.00003	0.00003
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00026	-0.00026	-0.00026
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00020	0.00020	0.00020
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00022	-0.00021	-0.00019
	(!A0 * !A1 * B0 * C1 * Y)	0.00018	0.00018	0.00018
	(!A0 * !A1 * B0 * C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B0 * C1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B0 * C1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	0.00018	0.00018	0.00018
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00018	0.00018	0.00018
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !B0 * C1 * Y)	0.00020	0.00021	0.00021
	(!A0 * !A1 * !B0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * C1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !B0 * C1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	0.00021	0.00021	0.00021
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00021	0.00021	0.00021
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00005	-0.00005	-0.00005

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X1H7H	**(A1 * B1 * C1 * !Y)**	-0.00012	-0.00011	-0.00009
	(A1 * B1 * C1 * !Y)	-0.00003	-0.00003	-0.00002
	(A1 * B1 * C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B1 * C1 * !Y)	0.00032	0.00032	0.00032
	(A1 * B0 * !B1 * C1 * !Y)	-0.00012	-0.00011	-0.00009
	(A1 * B0 * !B1 * C1 * !Y)	-0.00003	-0.00003	-0.00002
	(A1 * B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !B1 * C1 * !Y)	0.00032	0.00032	0.00032
	(A1 * !B0 * !B1 * C1 * Y)	-0.00024	-0.00023	-0.00021
	(A1 * !B0 * !B1 * C1 * Y)	-0.00003	-0.00003	-0.00002
	(A1 * !B0 * !B1 * C1 * Y)	0.00002	0.00003	0.00003
	(A1 * !B0 * !B1 * C1 * Y)	0.00010	0.00010	0.00010
	(A1 * !B0 * !B1 * !C1 * Y)	-0.00026	-0.00026	-0.00026
	(A1 * !B0 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * !C1 * Y)	0.00003	0.00003	0.00003
	(A1 * !B0 * !B1 * !C1 * Y)	0.00010	0.00010	0.00010
	(A0 * !A1 * B1 * C1 * !Y)	-0.00012	-0.00011	-0.00009
	(A0 * !A1 * B1 * C1 * !Y)	-0.00003	-0.00003	-0.00002
	(A0 * !A1 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B1 * C1 * !Y)	0.00032	0.00032	0.00032
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00012	-0.00011	-0.00009
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00003	-0.00003	-0.00002
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00032	0.00032	0.00032
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00024	-0.00023	-0.00021
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00003	-0.00002	-0.00002
	(!A1 * !B0 * !B1 * C1 * Y)	0.00002	0.00003	0.00003
	(!A1 * !B0 * !B1 * C1 * Y)	0.00010	0.00010	0.00010
	(!A1 * !B0 * !B1 * !C1 * Y)	-0.00026	-0.00026	-0.00026
	(!A1 * !B0 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * !C1 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * !B1 * !C1 * Y)	0.00010	0.00010	0.00010
	(!A0 * !A1 * B1 * C1 * Y)	-0.00024	-0.00023	-0.00021
	(!A0 * !A1 * B1 * C1 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * B1 * C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B1 * C1 * Y)	0.00009	0.00009	0.00010
	(!A0 * !A1 * B1 * !C1 * Y)	-0.00026	-0.00026	-0.00026
	(!A0 * !A1 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * !C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B1 * !C1 * Y)	0.00009	0.00009	0.00009
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00024	-0.00023	-0.00021
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00003	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	0.00009	0.00009	0.00009
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	-0.00026	-0.00026	-0.00026
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	0.00009	0.00009	0.00009

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X1H7H	**(A1 * B1 * C1 * !Y)**	0.00012	0.00012	0.00012
	(A1 * B1 * C1 * !Y)	0.00002	0.00003	0.00003
	(A1 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B1 * C1 * !Y)	-0.00032	-0.00032	-0.00032
	(A1 * B0 * !B1 * C1 * !Y)	0.00012	0.00012	0.00012
	(A1 * B0 * !B1 * C1 * !Y)	0.00002	0.00003	0.00003
	(A1 * B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !B1 * C1 * !Y)	-0.00032	-0.00032	-0.00031
	(A1 * !B0 * !B1 * C1 * Y)	0.00023	0.00024	0.00024
	(A1 * !B0 * !B1 * C1 * Y)	0.00002	0.00003	0.00003
	(A1 * !B0 * !B1 * C1 * Y)	-0.00003	-0.00003	-0.00002
	(A1 * !B0 * !B1 * C1 * Y)	-0.00010	-0.00010	-0.00010
	(A1 * !B0 * !B1 * !C1 * Y)	0.00026	0.00026	0.00026
	(A1 * !B0 * !B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * !C1 * Y)	-0.00003	-0.00003	-0.00002
	(A1 * !B0 * !B1 * !C1 * Y)	-0.00010	-0.00010	-0.00010
	(A0 * !A1 * B1 * C1 * !Y)	0.00012	0.00012	0.00012
	(A0 * !A1 * B1 * C1 * !Y)	0.00002	0.00003	0.00003
	(A0 * !A1 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B1 * C1 * !Y)	-0.00032	-0.00032	-0.00032
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00012	0.00012	0.00012
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00002	0.00003	0.00003
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00032	-0.00032	-0.00031
	(!A1 * !B0 * !B1 * C1 * Y)	0.00023	0.00024	0.00024
	(!A1 * !B0 * !B1 * C1 * Y)	0.00002	0.00002	0.00003
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00003	-0.00003	-0.00002
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00010	-0.00010	-0.00010
	(!A1 * !B0 * !B1 * !C1 * Y)	0.00026	0.00026	0.00027
	(!A1 * !B0 * !B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * !B1 * !C1 * Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !A1 * B1 * C1 * Y)	0.00023	0.00024	0.00024
	(!A0 * !A1 * B1 * C1 * Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * B1 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B1 * C1 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * B1 * !C1 * Y)	0.00026	0.00026	0.00027
	(!A0 * !A1 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B1 * !C1 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	0.00023	0.00024	0.00024
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	0.00002	0.00002	0.00003
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	0.00026	0.00026	0.00026
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	-0.00009	-0.00009	-0.00009

Passive power(pJ) for C1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X1H7H	**(A1 * B1 * C0 * !Y)**	-0.00000	-0.00000	0.00000
	(A1 * B1 * C0 * !Y)	-0.00004	-0.00004	-0.00004
	(A1 * B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * B1 * C0 * !Y)	0.00037	0.00037	0.00037
	(A1 * B0 * !B1 * C0 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C0 * !Y)	-0.00004	-0.00004	-0.00004
	(A1 * B0 * !B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !B1 * C0 * !Y)	0.00036	0.00037	0.00037
	(A1 * !B0 * !B1 * C0 * Y)	-0.00028	-0.00027	-0.00025
	(A1 * !B0 * !B1 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * !B1 * C0 * Y)	0.00003	0.00003	0.00003
	(A1 * !B0 * !B1 * C0 * Y)	0.00006	0.00006	0.00006
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00031	-0.00031	-0.00030
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * !C0 * Y)	0.00003	0.00003	0.00003
	(A1 * !B0 * !B1 * !C0 * Y)	0.00005	0.00006	0.00006
	(A0 * !A1 * B1 * C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C0 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * !A1 * B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * B1 * C0 * !Y)	0.00036	0.00037	0.00037
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00037	0.00037	0.00037
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00028	-0.00026	-0.00025
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00003	-0.00003	-0.00002
	(!A1 * !B0 * !B1 * C0 * Y)	0.00002	0.00003	0.00003
	(!A1 * !B0 * !B1 * C0 * Y)	0.00005	0.00006	0.00006
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00031	-0.00031	-0.00031
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00001	-0.00001	0.00000
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * B1 * C0 * Y)	-0.00028	-0.00027	-0.00025
	(!A0 * !A1 * B1 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B1 * C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B1 * C0 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00031	-0.00031	-0.00030
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * !C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B1 * !C0 * Y)	0.00004	0.00005	0.00005
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00028	-0.00027	-0.00025
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	-0.00031	-0.00031	-0.00031
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	0.00005	0.00005	0.00005

Passive power(pJ) for C1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

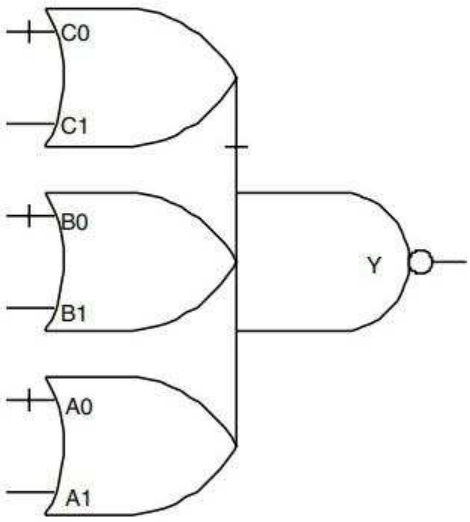
OAI222X1H7H	**(A1 * B1 * C0 * !Y)**	-0.00000	0.00000	0.00000
	(A1 * B1 * C0 * !Y)	0.00004	0.00004	0.00004
	(A1 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B1 * C0 * !Y)	-0.00037	-0.00037	-0.00036
	(A1 * B0 * !B1 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !B1 * C0 * !Y)	0.00004	0.00004	0.00004
	(A1 * B0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !B1 * C0 * !Y)	-0.00037	-0.00037	-0.00036
	(A1 * !B0 * !B1 * C0 * Y)	0.00028	0.00028	0.00028
	(A1 * !B0 * !B1 * C0 * Y)	0.00003	0.00003	0.00003
	(A1 * !B0 * !B1 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * !B1 * C0 * Y)	-0.00006	-0.00006	-0.00006
	(A1 * !B0 * !B1 * !C0 * Y)	0.00031	0.00031	0.00031
	(A1 * !B0 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00006	-0.00006	-0.00005
	(A0 * !A1 * B1 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * B1 * C0 * !Y)	0.00004	0.00004	0.00004
	(A0 * !A1 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B1 * C0 * !Y)	-0.00037	-0.00037	-0.00036
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00004	0.00004	0.00005
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00037	-0.00037	-0.00036
	(!A1 * !B0 * !B1 * C0 * Y)	0.00028	0.00028	0.00028
	(!A1 * !B0 * !B1 * C0 * Y)	0.00002	0.00003	0.00003
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00003	-0.00003	-0.00002
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00006	-0.00006	-0.00005
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00031	0.00031	0.00031
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !A1 * B1 * C0 * Y)	0.00028	0.00028	0.00028
	(!A0 * !A1 * B1 * C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B1 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B1 * C0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B1 * !C0 * Y)	0.00031	0.00031	0.00031
	(!A0 * !A1 * B1 * !C0 * Y)	0.00001	0.00001	0.00002
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	0.00028	0.00028	0.00028
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	0.00003	0.00003	0.00004
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	0.00031	0.00031	0.00031
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	0.00001	0.00001	0.00002
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	-0.00005	-0.00005	-0.00005

OAI222X1P4H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI222 cell provides the logical inverted AND of three OR groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT						OUTPUT
A0	A1	B0	B1	C0	C1	Y
0	0	x	x	x	x	1
x	1	0	0	x	x	1
x	1	x	1	0	0	1
x	1	x	1	x	1	0
x	1	x	1	1	x	0
x	1	1	x	0	0	1
x	1	1	x	x	1	0
x	1	1	x	1	x	0
1	x	0	0	x	x	1
1	x	x	1	0	0	1
1	x	x	1	x	1	0
1	x	x	1	1	x	0
1	x	1	x	0	0	1
1	x	1	x	x	1	0
1	x	1	x	1	x	0

Footprint

Cell Name	Area
OAI222X1P4H7H	3.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	A1	B0	B1	C0	C1	Y
OAI222X1P4H7H	0.00091	0.00104	0.00100	0.00104	0.00099	0.00116	0.02169

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI222X1P4H7H	0.00000	0.02264	0.03884

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI222X1P4H7H	A0->Y (FR)	0.07705	0.25393	0.74716
	A1->Y (FR)	0.07500	0.24833	0.73898
	B0->Y (FR)	0.06706	0.24066	0.73443
	B1->Y (FR)	0.06292	0.23286	0.72455
	C0->Y (FR)	0.04994	0.21953	0.71462
	C1->Y (FR)	0.04748	0.21291	0.70740

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI222X1P4H7H	A0->Y (RF)	0.08564	0.25727	0.72196
	A1->Y (RF)	0.08159	0.25236	0.71752
	B0->Y (RF)	0.08030	0.25406	0.74151
	B1->Y (RF)	0.07456	0.24723	0.73491
	C0->Y (RF)	0.06219	0.22926	0.71013
	C1->Y (RF)	0.05864	0.22431	0.70627

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI222X1P4H7H	A0	0.00264	0.00267	0.00270
	A0	-0.00021	-0.00021	-0.00021
	A0	0.00029	0.00030	0.00030
	A0	-0.00003	-0.00000	0.00002
	A1	0.00242	0.00248	0.00252
	A1	-0.00014	-0.00014	-0.00013
	A1	0.00029	0.00030	0.00030
	A1	-0.00000	0.00003	0.00006
	B0	0.00231	0.00235	0.00238
	B0	-0.00021	-0.00021	-0.00020
	B0	0.00019	0.00019	0.00020
	B0	-0.00002	0.00003	0.00005
	B1	0.00207	0.00212	0.00216
	B1	-0.00014	-0.00014	-0.00013
	B1	0.00019	0.00019	0.00019
	B1	0.00002	0.00006	0.00009
	C0	0.00185	0.00189	0.00193
	C0	-0.00021	-0.00021	-0.00020
	C0	0.00006	0.00007	0.00009
	C0	-0.00011	-0.00006	-0.00002
	C1	0.00165	0.00170	0.00175
	C1	-0.00013	-0.00013	-0.00013
	C1	0.00005	0.00007	0.00009
	C1	-0.00008	-0.00002	0.00002

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI222X1P4H7H	A0	-0.00012	-0.00010	-0.00008
	A0	0.00035	0.00036	0.00036
	A0	-0.00028	-0.00028	-0.00028
	A0	0.00266	0.00268	0.00269
	A1	-0.00013	-0.00009	-0.00006
	A1	0.00028	0.00028	0.00028
	A1	-0.00028	-0.00028	-0.00028
	A1	0.00246	0.00250	0.00252
	B0	-0.00013	-0.00010	-0.00009
	B0	0.00035	0.00036	0.00036
	B0	-0.00018	-0.00018	-0.00018
	B0	0.00216	0.00221	0.00223
	B1	-0.00013	-0.00009	-0.00007
	B1	0.00028	0.00028	0.00028
	B1	-0.00018	-0.00018	-0.00018
	B1	0.00196	0.00200	0.00202
	C0	-0.00014	-0.00011	-0.00009
	C0	0.00035	0.00035	0.00036
	C0	-0.00007	-0.00007	-0.00006
	C0	0.00165	0.00172	0.00176
	C1	-0.00016	-0.00010	-0.00007
	C1	0.00028	0.00028	0.00028
	C1	-0.00007	-0.00007	-0.00005
	C1	0.00149	0.00155	0.00159

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X1P4H7H	**(A1 * B1 * C1 * !Y)**	-0.00014	-0.00013	-0.00011
	(A1 * B1 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B1 * C1 * !Y)	0.00001	0.00001	0.00002
	(A1 * B1 * C1 * !Y)	0.00032	0.00033	0.00033
	(A1 * B1 * C0 * !C1 * !Y)	-0.00014	-0.00013	-0.00011
	(A1 * B1 * C0 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B1 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B1 * C0 * !C1 * !Y)	0.00033	0.00033	0.00033
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	-0.00014	-0.00013	-0.00011
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	0.00032	0.00032	0.00033
	(A1 * B0 * !B1 * C1 * !Y)	-0.00014	-0.00012	-0.00011
	(A1 * B0 * !B1 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !B1 * C1 * !Y)	0.00032	0.00033	0.00033
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	-0.00014	-0.00012	-0.00011
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	0.00032	0.00033	0.00033
	(A1 * !B0 * !B1 * Y)	-0.00014	-0.00012	-0.00011
	(A1 * !B0 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * Y)	0.00032	0.00032	0.00033
	(!A1 * B1 * !C0 * !C1 * Y)	-0.00017	-0.00017	-0.00017
	(!A1 * B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B1 * !C0 * !C1 * Y)	0.00002	0.00002	0.00003
	(!A1 * B1 * !C0 * !C1 * Y)	0.00027	0.00027	0.00027
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	-0.00017	-0.00017	-0.00017
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	-0.00002	-0.00001	-0.00001
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	0.00001	0.00002	0.00002
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	0.00027	0.00027	0.00028
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00017	-0.00017	-0.00016
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * C1 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !B1 * C1 * Y)	0.00027	0.00028	0.00028
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	-0.00017	-0.00017	-0.00016
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	0.00027	0.00028	0.00028
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00017	-0.00017	-0.00017
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	0.00027	0.00028	0.00028

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X1P4H7H	**(A1 * B1 * C1 * !Y)**	0.00014	0.00014	0.00014
	(A1 * B1 * C1 * !Y)	0.00003	0.00003	0.00003
	(A1 * B1 * C1 * !Y)	-0.00002	-0.00001	-0.00001
	(A1 * B1 * C1 * !Y)	-0.00033	-0.00032	-0.00032
	(A1 * B1 * C0 * !C1 * !Y)	0.00014	0.00014	0.00014
	(A1 * B1 * C0 * !C1 * !Y)	0.00003	0.00003	0.00003
	(A1 * B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * C0 * !C1 * !Y)	-0.00033	-0.00032	-0.00032
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	0.00013	0.00014	0.00014
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	0.00003	0.00003	0.00003
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	-0.00033	-0.00032	-0.00032
	(A1 * B0 * !B1 * C1 * !Y)	0.00013	0.00014	0.00014
	(A1 * B0 * !B1 * C1 * !Y)	0.00003	0.00003	0.00003
	(A1 * B0 * !B1 * C1 * !Y)	-0.00001	-0.00000	0.00000
	(A1 * B0 * !B1 * C1 * !Y)	-0.00033	-0.00032	-0.00032
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	0.00014	0.00014	0.00014
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	0.00003	0.00003	0.00003
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	-0.00033	-0.00032	-0.00032
	(A1 * !B0 * !B1 * Y)	0.00013	0.00014	0.00014
	(A1 * !B0 * !B1 * Y)	0.00003	0.00003	0.00003
	(A1 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * Y)	-0.00032	-0.00032	-0.00032
	(!A1 * B1 * !C0 * !C1 * Y)	0.00017	0.00017	0.00017
	(!A1 * B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B1 * !C0 * !C1 * Y)	-0.00003	-0.00002	-0.00002
	(!A1 * B1 * !C0 * !C1 * Y)	-0.00027	-0.00025	-0.00023
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	0.00017	0.00017	0.00017
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00002
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	-0.00027	-0.00025	-0.00023
	(!A1 * !B0 * !B1 * C1 * Y)	0.00017	0.00017	0.00017
	(!A1 * !B0 * !B1 * C1 * Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00028	-0.00026	-0.00024
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	0.00016	0.00017	0.00017
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	-0.00028	-0.00026	-0.00023
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	0.00017	0.00017	0.00017
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00028	-0.00026	-0.00024

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X1P4H7H	**(A0 * B1 * C1 * !Y)**	-0.00000	0.00000	0.00000
	(A0 * B1 * C1 * !Y)	-0.00005	-0.00005	-0.00004
	(A0 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B1 * C1 * !Y)	0.00038	0.00038	0.00039
	(A0 * B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * B1 * C0 * !C1 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * B1 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B1 * C0 * !C1 * !Y)	0.00038	0.00038	0.00039
	(A0 * B1 * !C0 * !C1 * Y)	-0.00017	-0.00015	-0.00014
	(A0 * B1 * !C0 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * B1 * !C0 * !C1 * Y)	0.00029	0.00029	0.00029
	(A0 * B0 * !B1 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * !B1 * C1 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !B1 * C1 * !Y)	0.00038	0.00038	0.00038
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	0.00038	0.00038	0.00038
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00017	-0.00015	-0.00014
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00029	0.00029	0.00029
	(A0 * !B0 * !B1 * C1 * Y)	-0.00017	-0.00015	-0.00014
	(A0 * !B0 * !B1 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * !B0 * !B1 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * C1 * Y)	0.00029	0.00029	0.00029
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00017	-0.00015	-0.00014
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00004	-0.00003	-0.00003
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00029	0.00029	0.00029
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00017	-0.00016	-0.00014
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00029	0.00029	0.00029
	(!A0 * B1 * !C0 * !C1 * Y)	-0.00020	-0.00020	-0.00020
	(!A0 * B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B1 * !C0 * !C1 * Y)	0.00002	0.00003	0.00003
	(!A0 * B1 * !C0 * !C1 * Y)	0.00023	0.00023	0.00023
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00020	-0.00020	-0.00020
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00023	0.00023	0.00023
	(!A0 * !B0 * !B1 * C1 * Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !B0 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * !B1 * C1 * Y)	0.00023	0.00023	0.00024
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00002	0.00002	0.00003
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00023	0.00023	0.00024
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00023	0.00023	0.00023

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X1P4H7H	**(A0 * B1 * C1 * !Y)**	-0.00000	-0.00000	0.00000
	(A0 * B1 * C1 * !Y)	0.00005	0.00005	0.00005
	(A0 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * C1 * !Y)	-0.00038	-0.00038	-0.00038
	(A0 * B1 * C0 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !C1 * !Y)	0.00005	0.00005	0.00005
	(A0 * B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * C0 * !C1 * !Y)	-0.00038	-0.00038	-0.00038
	(A0 * B1 * !C0 * !C1 * Y)	0.00017	0.00017	0.00017
	(A0 * B1 * !C0 * !C1 * Y)	0.00003	0.00003	0.00003
	(A0 * B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B1 * !C0 * !C1 * Y)	-0.00029	-0.00029	-0.00029
	(A0 * B0 * !B1 * C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C1 * !Y)	0.00005	0.00005	0.00005
	(A0 * B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !B1 * C1 * !Y)	-0.00038	-0.00038	-0.00038
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	0.00005	0.00005	0.00005
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	-0.00038	-0.00038	-0.00038
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00017	0.00017	0.00017
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00003	0.00003	0.00003
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00029	-0.00029	-0.00029
	(A0 * !B0 * !B1 * C1 * Y)	0.00017	0.00017	0.00017
	(A0 * !B0 * !B1 * C1 * Y)	0.00003	0.00003	0.00003
	(A0 * !B0 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * C1 * Y)	-0.00029	-0.00029	-0.00029
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00017	0.00017	0.00017
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00003	0.00003	0.00004
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00029	-0.00029	-0.00029
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00017	0.00017	0.00017
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00003	0.00003	0.00003
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00029	-0.00029	-0.00029
	(!A0 * B1 * !C0 * !C1 * Y)	0.00020	0.00020	0.00020
	(!A0 * B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * B1 * !C0 * !C1 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * B1 * !C0 * !C1 * Y)	-0.00023	-0.00021	-0.00018
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00020	0.00020	0.00020
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00002
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00023	-0.00021	-0.00019
	(!A0 * !B0 * !B1 * C1 * Y)	0.00020	0.00020	0.00020
	(!A0 * !B0 * !B1 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * !B1 * C1 * Y)	-0.00023	-0.00022	-0.00019
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00020	0.00020	0.00020
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00001	0.00001	0.00002
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00003	-0.00002	-0.00002
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00024	-0.00022	-0.00019
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00020	0.00020	0.00020
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00002
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00023	-0.00022	-0.00019

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X1P4H7H	**(A1 * B1 * C1 * !Y)**	-0.00014	-0.00012	-0.00010
	(A1 * B1 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B1 * C1 * !Y)	0.00034	0.00034	0.00034
	(A1 * B1 * C0 * !C1 * !Y)	-0.00014	-0.00012	-0.00010
	(A1 * B1 * C0 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B1 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B1 * C0 * !C1 * !Y)	0.00034	0.00034	0.00034
	(A1 * !B1 * !C0 * !C1 * Y)	-0.00020	-0.00019	-0.00019
	(A1 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B1 * !C0 * !C1 * Y)	0.00002	0.00002	0.00002
	(A1 * !B1 * !C0 * !C1 * Y)	0.00027	0.00027	0.00027
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	-0.00016	-0.00015	-0.00013
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	0.00031	0.00031	0.00031
	(A0 * !A1 * B1 * C1 * !Y)	-0.00014	-0.00012	-0.00010
	(A0 * !A1 * B1 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * B1 * C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * B1 * C1 * !Y)	0.00034	0.00034	0.00034
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00014	-0.00012	-0.00010
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00001	0.00001	0.00002
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00034	0.00034	0.00034
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00020	-0.00019	-0.00019
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00027	0.00027	0.00027
	(!A0 * !A1 * B1 * C1 * Y)	-0.00017	-0.00016	-0.00014
	(!A0 * !A1 * B1 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B1 * C1 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B1 * C1 * Y)	0.00009	0.00010	0.00010
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00017	-0.00016	-0.00014
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	0.00009	0.00010	0.00010
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	-0.00017	-0.00016	-0.00014
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	0.00009	0.00010	0.00010
	(!A0 * !A1 * !B1 * C1 * Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !A1 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !B1 * C1 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !B1 * C1 * Y)	0.00009	0.00010	0.00010
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	0.00009	0.00010	0.00010
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00010	0.00010	0.00010

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X1P4H7H	**(A1 * B1 * C1 * !Y)**	0.00013	0.00014	0.00014
	(A1 * B1 * C1 * !Y)	0.00003	0.00003	0.00003
	(A1 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B1 * C1 * !Y)	-0.00034	-0.00034	-0.00033
	(A1 * B1 * C0 * !C1 * !Y)	0.00013	0.00014	0.00014
	(A1 * B1 * C0 * !C1 * !Y)	0.00003	0.00003	0.00003
	(A1 * B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B1 * C0 * !C1 * !Y)	-0.00034	-0.00034	-0.00033
	(A1 * !B1 * !C0 * !C1 * Y)	0.00020	0.00020	0.00020
	(A1 * !B1 * !C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(A1 * !B1 * !C0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B1 * !C0 * !C1 * Y)	-0.00027	-0.00025	-0.00023
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	0.00016	0.00016	0.00016
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	0.00003	0.00003	0.00003
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	-0.00031	-0.00031	-0.00031
	(A0 * !A1 * B1 * C1 * !Y)	0.00014	0.00014	0.00014
	(A0 * !A1 * B1 * C1 * !Y)	0.00003	0.00003	0.00003
	(A0 * !A1 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B1 * C1 * !Y)	-0.00034	-0.00034	-0.00034
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00014	0.00014	0.00014
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00003	0.00003	0.00003
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00034	-0.00034	-0.00034
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00020	0.00020	0.00020
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00027	-0.00025	-0.00022
	(!A0 * !A1 * B1 * C1 * Y)	0.00017	0.00017	0.00017
	(!A0 * !A1 * B1 * C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B1 * C1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B1 * C1 * Y)	-0.00010	-0.00010	-0.00009
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	0.00017	0.00017	0.00017
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00010	-0.00010	-0.00009
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	0.00017	0.00017	0.00017
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	-0.00010	-0.00010	-0.00009
	(!A0 * !A1 * !B1 * C1 * Y)	0.00020	0.00020	0.00020
	(!A0 * !A1 * !B1 * C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !B1 * C1 * Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !A1 * !B1 * C1 * Y)	-0.00010	-0.00010	-0.00009
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	0.00020	0.00020	0.00020
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	0.00001	0.00001	0.00002
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	-0.00010	-0.00009	-0.00009
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00020	0.00020	0.00020
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00010	-0.00010	-0.00010

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X1P4H7H	**(A1 * B0 * C1 * !Y)**	-0.00000	-0.00000	0.00000
	(A1 * B0 * C1 * !Y)	-0.00005	-0.00005	-0.00005
	(A1 * B0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * C1 * !Y)	0.00036	0.00036	0.00036
	(A1 * B0 * C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * C0 * !C1 * !Y)	-0.00005	-0.00005	-0.00005
	(A1 * B0 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * C0 * !C1 * !Y)	0.00036	0.00036	0.00036
	(A1 * B0 * !C0 * !C1 * Y)	-0.00017	-0.00015	-0.00013
	(A1 * B0 * !C0 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * !C1 * Y)	0.00027	0.00027	0.00027
	(A1 * !B0 * !C0 * !C1 * Y)	-0.00020	-0.00020	-0.00020
	(A1 * !B0 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !C0 * !C1 * Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !C0 * !C1 * Y)	0.00023	0.00023	0.00023
	(A0 * !A1 * B0 * C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C1 * !Y)	-0.00005	-0.00005	-0.00004
	(A0 * !A1 * B0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B0 * C1 * !Y)	0.00036	0.00036	0.00036
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00005	-0.00005	-0.00004
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00036	0.00036	0.00036
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00017	-0.00015	-0.00013
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00027	0.00027	0.00027
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00020	-0.00020	-0.00020
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00023	0.00023	0.00023
	(!A0 * !A1 * B0 * C1 * Y)	-0.00017	-0.00016	-0.00014
	(!A0 * !A1 * B0 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B0 * C1 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B0 * C1 * Y)	0.00005	0.00005	0.00006
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00017	-0.00016	-0.00014
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	0.00005	0.00005	0.00006
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00017	-0.00016	-0.00014
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00006	0.00006	0.00007
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00005	0.00006	0.00005
	(!A0 * !A1 * !B0 * C1 * Y)	-0.00021	-0.00021	-0.00020
	(!A0 * !A1 * !B0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * C1 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !B0 * C1 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	-0.00021	-0.00021	-0.00020
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X1P4H7H	**(A1 * B0 * C1 * !Y)**	-0.00000	0.00000	0.00000
	(A1 * B0 * C1 * !Y)	0.00005	0.00005	0.00005
	(A1 * B0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * C1 * !Y)	-0.00036	-0.00036	-0.00036
	(A1 * B0 * C0 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !C1 * !Y)	0.00005	0.00005	0.00005
	(A1 * B0 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * C0 * !C1 * !Y)	-0.00036	-0.00036	-0.00036
	(A1 * B0 * !C0 * !C1 * Y)	0.00016	0.00016	0.00017
	(A1 * B0 * !C0 * !C1 * Y)	0.00003	0.00003	0.00003
	(A1 * B0 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * !C1 * Y)	-0.00027	-0.00027	-0.00027
	(A1 * !B0 * !C0 * !C1 * Y)	0.00020	0.00020	0.00020
	(A1 * !B0 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !C0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !C0 * !C1 * Y)	-0.00023	-0.00021	-0.00019
	(A0 * !A1 * B0 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * B0 * C1 * !Y)	0.00005	0.00005	0.00005
	(A0 * !A1 * B0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B0 * C1 * !Y)	-0.00036	-0.00036	-0.00035
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00005	0.00005	0.00005
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00036	-0.00036	-0.00036
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00016	0.00016	0.00017
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00002	0.00003	0.00003
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00027	-0.00027	-0.00027
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00020	0.00020	0.00021
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00023	-0.00021	-0.00019
	(!A0 * !A1 * B0 * C1 * Y)	0.00017	0.00017	0.00017
	(!A0 * !A1 * B0 * C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B0 * C1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B0 * C1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	0.00017	0.00017	0.00017
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	0.00003	0.00003	0.00004
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00006	-0.00005	-0.00005
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00017	0.00017	0.00017
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00007	-0.00006	-0.00006
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00005	-0.00006	-0.00005
	(!A0 * !A1 * !B0 * C1 * Y)	0.00021	0.00021	0.00021
	(!A0 * !A1 * !B0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * C1 * Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !A1 * !B0 * C1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	0.00020	0.00021	0.00021
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00021	0.00021	0.00021
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00001	0.00001	0.00002
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X1P4H7H	**(A1 * B1 * C1 * !Y)**	-0.00014	-0.00012	-0.00010
	(A1 * B1 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B1 * C1 * !Y)	0.00035	0.00035	0.00035
	(A1 * B0 * !B1 * C1 * !Y)	-0.00014	-0.00013	-0.00011
	(A1 * B0 * !B1 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !B1 * C1 * !Y)	0.00035	0.00035	0.00035
	(A1 * !B0 * !B1 * C1 * Y)	-0.00026	-0.00025	-0.00023
	(A1 * !B0 * !B1 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * !B1 * C1 * Y)	0.00003	0.00003	0.00003
	(A1 * !B0 * !B1 * C1 * Y)	0.00010	0.00010	0.00010
	(A1 * !B0 * !B1 * !C1 * Y)	-0.00029	-0.00028	-0.00028
	(A1 * !B0 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * !C1 * Y)	0.00003	0.00003	0.00003
	(A1 * !B0 * !B1 * !C1 * Y)	0.00010	0.00010	0.00011
	(A0 * !A1 * B1 * C1 * !Y)	-0.00014	-0.00013	-0.00011
	(A0 * !A1 * B1 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B1 * C1 * !Y)	0.00035	0.00035	0.00035
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00014	-0.00012	-0.00010
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00035	0.00035	0.00035
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00026	-0.00025	-0.00023
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00003	-0.00003	-0.00002
	(!A1 * !B0 * !B1 * C1 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * !B1 * C1 * Y)	0.00010	0.00010	0.00011
	(!A1 * !B0 * !B1 * !C1 * Y)	-0.00029	-0.00028	-0.00028
	(!A1 * !B0 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * !C1 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * !B1 * !C1 * Y)	0.00010	0.00010	0.00010
	(!A0 * !A1 * B1 * C1 * Y)	-0.00026	-0.00025	-0.00023
	(!A0 * !A1 * B1 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B1 * C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B1 * C1 * Y)	0.00010	0.00010	0.00010
	(!A0 * !A1 * B1 * !C1 * Y)	-0.00029	-0.00028	-0.00028
	(!A0 * !A1 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * !C1 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * B1 * !C1 * Y)	0.00009	0.00009	0.00010
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00026	-0.00025	-0.00023
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	0.00010	0.00010	0.00010
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	-0.00029	-0.00028	-0.00028
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	0.00003	0.00004	0.00004
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	0.00009	0.00009	0.00009

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X1P4H7H	**(A1 * B1 * C1 * !Y)**	0.00013	0.00014	0.00014
	(A1 * B1 * C1 * !Y)	0.00003	0.00003	0.00003
	(A1 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B1 * C1 * !Y)	-0.00035	-0.00035	-0.00034
	(A1 * B0 * !B1 * C1 * !Y)	0.00014	0.00014	0.00014
	(A1 * B0 * !B1 * C1 * !Y)	0.00003	0.00003	0.00003
	(A1 * B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !B1 * C1 * !Y)	-0.00035	-0.00035	-0.00034
	(A1 * !B0 * !B1 * C1 * Y)	0.00025	0.00026	0.00026
	(A1 * !B0 * !B1 * C1 * Y)	0.00003	0.00003	0.00003
	(A1 * !B0 * !B1 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * !B1 * C1 * Y)	-0.00010	-0.00010	-0.00010
	(A1 * !B0 * !B1 * !C1 * Y)	0.00029	0.00029	0.00029
	(A1 * !B0 * !B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * !B1 * !C1 * Y)	-0.00011	-0.00010	-0.00010
	(A0 * !A1 * B1 * C1 * !Y)	0.00014	0.00014	0.00014
	(A0 * !A1 * B1 * C1 * !Y)	0.00003	0.00003	0.00003
	(A0 * !A1 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B1 * C1 * !Y)	-0.00035	-0.00035	-0.00034
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00014	0.00014	0.00014
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00003	0.00003	0.00003
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00035	-0.00034	-0.00034
	(!A1 * !B0 * !B1 * C1 * Y)	0.00025	0.00026	0.00026
	(!A1 * !B0 * !B1 * C1 * Y)	0.00002	0.00003	0.00003
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00010	-0.00010	-0.00010
	(!A1 * !B0 * !B1 * !C1 * Y)	0.00029	0.00029	0.00029
	(!A1 * !B0 * !B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * !B1 * !C1 * Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !A1 * B1 * C1 * Y)	0.00025	0.00026	0.00026
	(!A0 * !A1 * B1 * C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B1 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B1 * C1 * Y)	-0.00010	-0.00010	-0.00009
	(!A0 * !A1 * B1 * !C1 * Y)	0.00029	0.00029	0.00029
	(!A0 * !A1 * B1 * !C1 * Y)	0.00001	0.00001	0.00002
	(!A0 * !A1 * B1 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B1 * !C1 * Y)	-0.00010	-0.00009	-0.00009
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	0.00026	0.00026	0.00026
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	0.00029	0.00029	0.00029
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	-0.00009	-0.00009	-0.00009

Passive power(pJ) for C1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X1P4H7H	**(A1 * B1 * C0 * !Y)**	-0.00000	0.00000	0.00000
	(A1 * B1 * C0 * !Y)	-0.00005	-0.00005	-0.00004
	(A1 * B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * B1 * C0 * !Y)	0.00040	0.00041	0.00041
	(A1 * B0 * !B1 * C0 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C0 * !Y)	-0.00005	-0.00005	-0.00004
	(A1 * B0 * !B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !B1 * C0 * !Y)	0.00040	0.00041	0.00041
	(A1 * !B0 * !B1 * C0 * Y)	-0.00031	-0.00030	-0.00028
	(A1 * !B0 * !B1 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * !B1 * C0 * Y)	0.00003	0.00003	0.00003
	(A1 * !B0 * !B1 * C0 * Y)	0.00006	0.00006	0.00006
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00035	-0.00034	-0.00034
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * !C0 * Y)	0.00003	0.00003	0.00003
	(A1 * !B0 * !B1 * !C0 * Y)	0.00006	0.00006	0.00006
	(A0 * !A1 * B1 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * B1 * C0 * !Y)	-0.00005	-0.00005	-0.00004
	(A0 * !A1 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B1 * C0 * !Y)	0.00041	0.00041	0.00041
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00005	-0.00005	-0.00004
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00040	0.00041	0.00041
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00031	-0.00030	-0.00028
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00004	-0.00003	-0.00003
	(!A1 * !B0 * !B1 * C0 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * !B1 * C0 * Y)	0.00006	0.00006	0.00006
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00035	-0.00034	-0.00034
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00005	0.00006	0.00006
	(!A0 * !A1 * B1 * C0 * Y)	-0.00031	-0.00030	-0.00028
	(!A0 * !A1 * B1 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B1 * C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B1 * C0 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00034	-0.00034	-0.00034
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * !C0 * Y)	0.00003	0.00003	0.00004
	(!A0 * !A1 * B1 * !C0 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00031	-0.00030	-0.00028
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	-0.00034	-0.00034	-0.00034
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	0.00003	0.00003	0.00004
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	0.00005	0.00005	0.00005

Passive power(pJ) for C1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

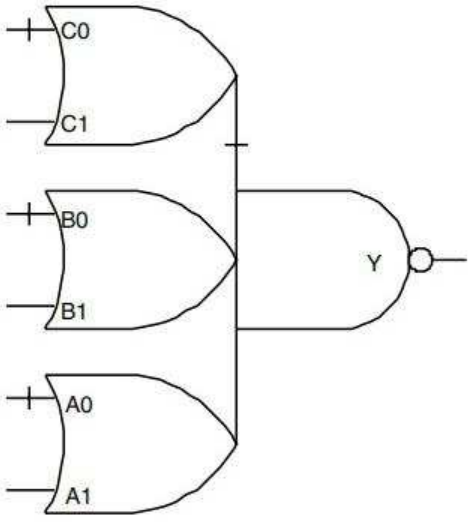
OAI222X1P4H7H	**(A1 * B1 * C0 * !Y)**	-0.00000	-0.00000	0.00000
	(A1 * B1 * C0 * !Y)	0.00005	0.00005	0.00005
	(A1 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B1 * C0 * !Y)	-0.00041	-0.00041	-0.00040
	(A1 * B0 * !B1 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !B1 * C0 * !Y)	0.00005	0.00005	0.00005
	(A1 * B0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !B1 * C0 * !Y)	-0.00041	-0.00041	-0.00040
	(A1 * !B0 * !B1 * C0 * Y)	0.00031	0.00031	0.00031
	(A1 * !B0 * !B1 * C0 * Y)	0.00003	0.00003	0.00003
	(A1 * !B0 * !B1 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * !B1 * C0 * Y)	-0.00006	-0.00006	-0.00005
	(A1 * !B0 * !B1 * !C0 * Y)	0.00034	0.00034	0.00035
	(A1 * !B0 * !B1 * !C0 * Y)	0.00001	0.00001	0.00002
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00006	-0.00006	-0.00006
	(A0 * !A1 * B1 * C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C0 * !Y)	0.00005	0.00005	0.00005
	(A0 * !A1 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B1 * C0 * !Y)	-0.00041	-0.00041	-0.00041
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00005	0.00005	0.00005
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00041	-0.00041	-0.00040
	(!A1 * !B0 * !B1 * C0 * Y)	0.00031	0.00031	0.00031
	(!A1 * !B0 * !B1 * C0 * Y)	0.00003	0.00003	0.00004
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00006	-0.00006	-0.00005
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00034	0.00034	0.00035
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !A1 * B1 * C0 * Y)	0.00031	0.00031	0.00031
	(!A0 * !A1 * B1 * C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B1 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B1 * C0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B1 * !C0 * Y)	0.00034	0.00034	0.00035
	(!A0 * !A1 * B1 * !C0 * Y)	0.00001	0.00001	0.00002
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	0.00031	0.00031	0.00031
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	0.00003	0.00003	0.00004
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	0.00034	0.00034	0.00035
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	-0.00005	-0.00005	-0.00005

OAI222X2H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI222 cell provides the logical inverted AND of three OR groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT						OUTPUT
A0	A1	B0	B1	C0	C1	Y
0	0	x	x	x	x	1
x	1	0	0	x	x	1
x	1	x	1	0	0	1
x	1	x	1	x	1	0
x	1	x	1	1	x	0
x	1	1	x	0	0	1
x	1	1	x	x	1	0
x	1	1	x	1	x	0
1	x	0	0	x	x	1
1	x	x	1	0	0	1
1	x	x	1	x	1	0
1	x	x	1	1	x	0
1	x	1	x	0	0	1
1	x	1	x	x	1	0
1	x	1	x	1	x	0

Footprint

Cell Name	Area
OAI222X2H7H	3.64000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	A1	B0	B1	C0	C1	Y
OAI222X2H7H	0.00100	0.00115	0.00110	0.00115	0.00113	0.00124	0.02511

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI222X2H7H	0.00000	0.03107	0.05963

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI222X2H7H	A0->Y (FR)	0.07366	0.25176	0.74963
	A1->Y (FR)	0.07132	0.24565	0.74103
	B0->Y (FR)	0.06376	0.23840	0.73604
	B1->Y (FR)	0.05943	0.23020	0.72578
	C0->Y (FR)	0.04776	0.21848	0.71757
	C1->Y (FR)	0.04475	0.21117	0.70891

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI222X2H7H	A0->Y (RF)	0.08137	0.25175	0.71530
	A1->Y (RF)	0.07697	0.24651	0.71026
	B0->Y (RF)	0.07595	0.24822	0.73416
	B1->Y (RF)	0.07011	0.24121	0.72721
	C0->Y (RF)	0.05959	0.22513	0.70406
	C1->Y (RF)	0.05525	0.21931	0.69806

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI222X2H7H	A0	0.00300	0.00303	0.00306
	A0	-0.00025	-0.00025	-0.00025
	A0	0.00036	0.00036	0.00036
	A0	-0.00005	-0.00003	-0.00001
	A1	0.00271	0.00280	0.00284
	A1	-0.00016	-0.00016	-0.00015
	A1	0.00035	0.00036	0.00036
	A1	-0.00003	0.00001	0.00004
	B0	0.00262	0.00266	0.00270
	B0	-0.00025	-0.00025	-0.00023
	B0	0.00023	0.00023	0.00023
	B0	-0.00005	0.00000	0.00003
	B1	0.00232	0.00239	0.00243
	B1	-0.00016	-0.00016	-0.00015
	B1	0.00023	0.00023	0.00023
	B1	-0.00002	0.00003	0.00006
	C0	0.00212	0.00217	0.00221
	C0	-0.00025	-0.00025	-0.00025
	C0	0.00008	0.00009	0.00010
	C0	-0.00013	-0.00008	-0.00004
	C1	0.00187	0.00193	0.00198
	C1	-0.00016	-0.00016	-0.00015
	C1	0.00008	0.00009	0.00010
	C1	-0.00010	-0.00003	0.00002

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI222X2H7H	A0	-0.00014	-0.00012	-0.00010
	A0	0.00042	0.00042	0.00043
	A0	-0.00034	-0.00034	-0.00033
	A0	0.00302	0.00305	0.00307
	A1	-0.00016	-0.00010	-0.00008
	A1	0.00033	0.00034	0.00034
	A1	-0.00034	-0.00034	-0.00033
	A1	0.00279	0.00284	0.00286
	B0	-0.00015	-0.00012	-0.00010
	B0	0.00042	0.00042	0.00043
	B0	-0.00022	-0.00022	-0.00022
	B0	0.00247	0.00251	0.00254
	B1	-0.00016	-0.00011	-0.00008
	B1	0.00033	0.00034	0.00034
	B1	-0.00022	-0.00022	-0.00021
	B1	0.00223	0.00228	0.00230
	C0	-0.00017	-0.00014	-0.00011
	C0	0.00042	0.00042	0.00043
	C0	-0.00009	-0.00009	-0.00008
	C0	0.00189	0.00198	0.00202
	C1	-0.00018	-0.00012	-0.00008
	C1	0.00033	0.00034	0.00034
	C1	-0.00009	-0.00009	-0.00007
	C1	0.00167	0.00175	0.00180

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X2H7H	**(A1 * B1 * C1 * !Y)**	-0.00016	-0.00015	-0.00012
	(A1 * B1 * C1 * !Y)	-0.00004	-0.00003	-0.00003
	(A1 * B1 * C1 * !Y)	0.00001	0.00001	0.00002
	(A1 * B1 * C1 * !Y)	0.00035	0.00035	0.00035
	(A1 * B1 * C0 * !C1 * !Y)	-0.00016	-0.00015	-0.00013
	(A1 * B1 * C0 * !C1 * !Y)	-0.00004	-0.00003	-0.00003
	(A1 * B1 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B1 * C0 * !C1 * !Y)	0.00035	0.00035	0.00035
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	-0.00016	-0.00015	-0.00013
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	-0.00004	-0.00004	-0.00003
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	0.00034	0.00035	0.00035
	(A1 * B0 * !B1 * C1 * !Y)	-0.00016	-0.00015	-0.00012
	(A1 * B0 * !B1 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00002
	(A1 * B0 * !B1 * C1 * !Y)	0.00035	0.00035	0.00035
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	-0.00016	-0.00015	-0.00013
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	-0.00004	-0.00003	-0.00003
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	0.00035	0.00035	0.00035
	(A1 * !B0 * !B1 * Y)	-0.00016	-0.00015	-0.00013
	(A1 * !B0 * !B1 * Y)	-0.00004	-0.00003	-0.00003
	(A1 * !B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * Y)	0.00034	0.00035	0.00035
	(!A1 * B1 * !C0 * !C1 * Y)	-0.00020	-0.00020	-0.00020
	(!A1 * B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B1 * !C0 * !C1 * Y)	0.00001	0.00002	0.00003
	(!A1 * B1 * !C0 * !C1 * Y)	0.00029	0.00029	0.00030
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	-0.00020	-0.00020	-0.00020
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	-0.00002	-0.00001	-0.00001
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	0.00002	0.00003	0.00003
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	0.00029	0.00029	0.00029
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00020	-0.00020	-0.00020
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00002	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * C1 * Y)	0.00002	0.00003	0.00003
	(!A1 * !B0 * !B1 * C1 * Y)	0.00029	0.00029	0.00030
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	-0.00020	-0.00020	-0.00020
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	0.00002	0.00003	0.00003
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	0.00029	0.00029	0.00030
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00020	-0.00020	-0.00020
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00002	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	0.00002	0.00003	0.00003
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	0.00029	0.00029	0.00029

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X2H7H	**(A1 * B1 * C1 * !Y)**	0.00016	0.00016	0.00016
	(A1 * B1 * C1 * !Y)	0.00003	0.00003	0.00004
	(A1 * B1 * C1 * !Y)	-0.00002	-0.00001	-0.00001
	(A1 * B1 * C1 * !Y)	-0.00035	-0.00035	-0.00034
	(A1 * B1 * C0 * !C1 * !Y)	0.00016	0.00016	0.00016
	(A1 * B1 * C0 * !C1 * !Y)	0.00003	0.00003	0.00004
	(A1 * B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * C0 * !C1 * !Y)	-0.00035	-0.00035	-0.00034
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	0.00016	0.00016	0.00016
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	0.00004	0.00004	0.00004
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	-0.00035	-0.00035	-0.00034
	(A1 * B0 * !B1 * C1 * !Y)	0.00016	0.00016	0.00016
	(A1 * B0 * !B1 * C1 * !Y)	0.00003	0.00003	0.00003
	(A1 * B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !B1 * C1 * !Y)	-0.00035	-0.00035	-0.00034
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	0.00016	0.00016	0.00016
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	0.00003	0.00003	0.00004
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	-0.00035	-0.00035	-0.00034
	(A1 * !B0 * !B1 * Y)	0.00016	0.00016	0.00016
	(A1 * !B0 * !B1 * Y)	0.00004	0.00004	0.00004
	(A1 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * Y)	-0.00035	-0.00035	-0.00034
	(!A1 * B1 * !C0 * !C1 * Y)	0.00020	0.00020	0.00020
	(!A1 * B1 * !C0 * !C1 * Y)	0.00001	0.00002	0.00002
	(!A1 * B1 * !C0 * !C1 * Y)	-0.00003	-0.00002	-0.00001
	(!A1 * B1 * !C0 * !C1 * Y)	-0.00029	-0.00027	-0.00024
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	0.00020	0.00020	0.00020
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00002
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	-0.00003	-0.00003	-0.00002
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	-0.00029	-0.00027	-0.00024
	(!A1 * !B0 * !B1 * C1 * Y)	0.00020	0.00020	0.00020
	(!A1 * !B0 * !B1 * C1 * Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00003	-0.00003	-0.00002
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00029	-0.00028	-0.00025
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	0.00020	0.00020	0.00020
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	-0.00003	-0.00002	-0.00002
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	-0.00029	-0.00028	-0.00024
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	0.00020	0.00020	0.00020
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00003	-0.00003	-0.00002
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00029	-0.00028	-0.00025

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X2H7H	**(A0 * B1 * C1 * !Y)**	-0.00000	0.00000	0.00000
	(A0 * B1 * C1 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B1 * C1 * !Y)	0.00041	0.00042	0.00042
	(A0 * B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * B1 * C0 * !C1 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * B1 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B1 * C0 * !C1 * !Y)	0.00042	0.00042	0.00042
	(A0 * B1 * !C0 * !C1 * Y)	-0.00019	-0.00018	-0.00015
	(A0 * B1 * !C0 * !C1 * Y)	-0.00004	-0.00004	-0.00003
	(A0 * B1 * !C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(A0 * B1 * !C0 * !C1 * Y)	0.00031	0.00032	0.00032
	(A0 * B0 * !B1 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * !B1 * C1 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !B1 * C1 * !Y)	0.00042	0.00042	0.00042
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	0.00042	0.00042	0.00042
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00019	-0.00018	-0.00015
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00004	-0.00004	-0.00003
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00031	0.00032	0.00032
	(A0 * !B0 * !B1 * C1 * Y)	-0.00019	-0.00018	-0.00015
	(A0 * !B0 * !B1 * C1 * Y)	-0.00004	-0.00004	-0.00003
	(A0 * !B0 * !B1 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * C1 * Y)	0.00032	0.00032	0.00032
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00019	-0.00018	-0.00016
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00004	-0.00004	-0.00003
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00032	0.00032	0.00032
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00019	-0.00018	-0.00016
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00004	-0.00003	-0.00003
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00031	0.00032	0.00032
	(!A0 * B1 * !C0 * !C1 * Y)	-0.00023	-0.00023	-0.00023
	(!A0 * B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B1 * !C0 * !C1 * Y)	0.00003	0.00003	0.00004
	(!A0 * B1 * !C0 * !C1 * Y)	0.00024	0.00024	0.00025
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00024	-0.00023	-0.00023
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00002	0.00003	0.00003
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00024	0.00025	0.00025
	(!A0 * !B0 * !B1 * C1 * Y)	-0.00023	-0.00023	-0.00023
	(!A0 * !B0 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !B0 * !B1 * C1 * Y)	0.00025	0.00025	0.00025
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00023	-0.00023	-0.00023
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00025	0.00025	0.00026
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00023	-0.00023	-0.00023
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00025	0.00025	0.00025

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X2H7H	**(A0 * B1 * C1 * !Y)**	-0.00000	-0.00000	0.00000
	(A0 * B1 * C1 * !Y)	0.00005	0.00006	0.00006
	(A0 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * C1 * !Y)	-0.00042	-0.00042	-0.00041
	(A0 * B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !C1 * !Y)	0.00005	0.00006	0.00006
	(A0 * B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * C0 * !C1 * !Y)	-0.00042	-0.00042	-0.00041
	(A0 * B1 * !C0 * !C1 * Y)	0.00019	0.00019	0.00019
	(A0 * B1 * !C0 * !C1 * Y)	0.00004	0.00004	0.00004
	(A0 * B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B1 * !C0 * !C1 * Y)	-0.00032	-0.00032	-0.00031
	(A0 * B0 * !B1 * C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C1 * !Y)	0.00006	0.00006	0.00006
	(A0 * B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !B1 * C1 * !Y)	-0.00042	-0.00042	-0.00041
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	0.00006	0.00006	0.00006
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	-0.00042	-0.00042	-0.00041
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00019	0.00019	0.00019
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00003	0.00004	0.00004
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00032	-0.00032	-0.00031
	(A0 * !B0 * !B1 * C1 * Y)	0.00019	0.00019	0.00019
	(A0 * !B0 * !B1 * C1 * Y)	0.00004	0.00004	0.00004
	(A0 * !B0 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * C1 * Y)	-0.00032	-0.00032	-0.00031
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00019	0.00019	0.00019
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00004	0.00004	0.00004
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00032	-0.00032	-0.00031
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00019	0.00019	0.00019
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00003	0.00004	0.00004
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00032	-0.00032	-0.00031
	(!A0 * B1 * !C0 * !C1 * Y)	0.00023	0.00023	0.00023
	(!A0 * B1 * !C0 * !C1 * Y)	0.00001	0.00002	0.00002
	(!A0 * B1 * !C0 * !C1 * Y)	-0.00004	-0.00003	-0.00003
	(!A0 * B1 * !C0 * !C1 * Y)	-0.00025	-0.00022	-0.00019
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00023	0.00023	0.00024
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00001	0.00002	0.00002
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00025	-0.00022	-0.00020
	(!A0 * !B0 * !B1 * C1 * Y)	0.00023	0.00023	0.00023
	(!A0 * !B0 * !B1 * C1 * Y)	0.00001	0.00002	0.00002
	(!A0 * !B0 * !B1 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !B0 * !B1 * C1 * Y)	-0.00025	-0.00023	-0.00020
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00023	0.00023	0.00023
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00001	0.00002	0.00002
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00025	-0.00023	-0.00020
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00023	0.00023	0.00023
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00001	0.00002	0.00002
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00025	-0.00023	-0.00020

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X2H7H	**(A1 * B1 * C1 * !Y)**	-0.00016	-0.00015	-0.00012
	(A1 * B1 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B1 * C1 * !Y)	0.00036	0.00036	0.00036
	(A1 * B1 * C0 * !C1 * !Y)	-0.00016	-0.00015	-0.00012
	(A1 * B1 * C0 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B1 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B1 * C0 * !C1 * !Y)	0.00036	0.00036	0.00036
	(A1 * !B1 * !C0 * !C1 * Y)	-0.00023	-0.00023	-0.00023
	(A1 * !B1 * !C0 * !C1 * Y)	-0.00002	-0.00002	-0.00001
	(A1 * !B1 * !C0 * !C1 * Y)	0.00002	0.00002	0.00003
	(A1 * !B1 * !C0 * !C1 * Y)	0.00028	0.00028	0.00028
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	-0.00019	-0.00018	-0.00015
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	-0.00004	-0.00003	-0.00003
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	0.00033	0.00033	0.00033
	(A0 * !A1 * B1 * C1 * !Y)	-0.00016	-0.00015	-0.00013
	(A0 * !A1 * B1 * C1 * !Y)	-0.00004	-0.00003	-0.00003
	(A0 * !A1 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B1 * C1 * !Y)	0.00036	0.00036	0.00036
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00016	-0.00015	-0.00012
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00036	0.00036	0.00036
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00023	-0.00023	-0.00023
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00002	-0.00001	-0.00001
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00028	0.00028	0.00028
	(!A0 * !A1 * B1 * C1 * Y)	-0.00020	-0.00018	-0.00016
	(!A0 * !A1 * B1 * C1 * Y)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * B1 * C1 * Y)	0.00006	0.00006	0.00007
	(!A0 * !A1 * B1 * C1 * Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00020	-0.00018	-0.00016
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	-0.00020	-0.00018	-0.00016
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * !B1 * C1 * Y)	-0.00023	-0.00023	-0.00023
	(!A0 * !A1 * !B1 * C1 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * !B1 * C1 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * !B1 * C1 * Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	-0.00023	-0.00023	-0.00023
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00023	-0.00023	-0.00023
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00008	0.00008	0.00008

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X2H7H	**(A1 * B1 * C1 * !Y)**	0.00016	0.00016	0.00016
	(A1 * B1 * C1 * !Y)	0.00003	0.00003	0.00003
	(A1 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * C1 * !Y)	-0.00036	-0.00036	-0.00036
	(A1 * B1 * C0 * !C1 * !Y)	0.00016	0.00016	0.00016
	(A1 * B1 * C0 * !C1 * !Y)	0.00003	0.00003	0.00003
	(A1 * B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * C0 * !C1 * !Y)	-0.00036	-0.00036	-0.00036
	(A1 * !B1 * !C0 * !C1 * Y)	0.00023	0.00023	0.00023
	(A1 * !B1 * !C0 * !C1 * Y)	0.00001	0.00002	0.00002
	(A1 * !B1 * !C0 * !C1 * Y)	-0.00003	-0.00002	-0.00002
	(A1 * !B1 * !C0 * !C1 * Y)	-0.00028	-0.00026	-0.00023
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	0.00019	0.00019	0.00019
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	0.00003	0.00003	0.00004
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	-0.00033	-0.00033	-0.00033
	(A0 * !A1 * B1 * C1 * !Y)	0.00016	0.00016	0.00016
	(A0 * !A1 * B1 * C1 * !Y)	0.00003	0.00003	0.00004
	(A0 * !A1 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B1 * C1 * !Y)	-0.00036	-0.00036	-0.00036
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00016	0.00016	0.00016
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00003	0.00003	0.00003
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00036	-0.00036	-0.00036
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00023	0.00023	0.00023
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00002
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00028	-0.00026	-0.00023
	(!A0 * !A1 * B1 * C1 * Y)	0.00019	0.00019	0.00020
	(!A0 * !A1 * B1 * C1 * Y)	0.00003	0.00003	0.00004
	(!A0 * !A1 * B1 * C1 * Y)	-0.00007	-0.00006	-0.00006
	(!A0 * !A1 * B1 * C1 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	0.00020	0.00020	0.00020
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	0.00003	0.00003	0.00004
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	0.00019	0.00019	0.00020
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	0.00003	0.00003	0.00004
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * !B1 * C1 * Y)	0.00023	0.00023	0.00023
	(!A0 * !A1 * !B1 * C1 * Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * !B1 * C1 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * !B1 * C1 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	0.00023	0.00023	0.00023
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	0.00001	0.00001	0.00002
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00023	0.00023	0.00023
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00008	-0.00008	-0.00008

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X2H7H	**(A1 * B0 * C1 * !Y)**	-0.00000	-0.00000	0.00000
	(A1 * B0 * C1 * !Y)	-0.00006	-0.00006	-0.00006
	(A1 * B0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * C1 * !Y)	0.00040	0.00040	0.00040
	(A1 * B0 * C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * C0 * !C1 * !Y)	-0.00006	-0.00006	-0.00006
	(A1 * B0 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * C0 * !C1 * !Y)	0.00040	0.00040	0.00040
	(A1 * B0 * !C0 * !C1 * Y)	-0.00019	-0.00018	-0.00016
	(A1 * B0 * !C0 * !C1 * Y)	-0.00004	-0.00004	-0.00003
	(A1 * B0 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * !C1 * Y)	0.00030	0.00030	0.00030
	(A1 * !B0 * !C0 * !C1 * Y)	-0.00024	-0.00024	-0.00024
	(A1 * !B0 * !C0 * !C1 * Y)	-0.00002	-0.00001	-0.00001
	(A1 * !B0 * !C0 * !C1 * Y)	0.00002	0.00002	0.00003
	(A1 * !B0 * !C0 * !C1 * Y)	0.00025	0.00025	0.00025
	(A0 * !A1 * B0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C1 * !Y)	-0.00006	-0.00006	-0.00005
	(A0 * !A1 * B0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B0 * C1 * !Y)	0.00039	0.00040	0.00040
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00006	-0.00006	-0.00005
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00040	0.00040	0.00040
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00019	-0.00018	-0.00016
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00004	-0.00004	-0.00003
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00029	0.00030	0.00030
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00024	-0.00024	-0.00024
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00002	0.00002	0.00003
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00024	0.00025	0.00025
	(!A0 * !A1 * B0 * C1 * Y)	-0.00020	-0.00018	-0.00016
	(!A0 * !A1 * B0 * C1 * Y)	-0.00004	-0.00004	-0.00003
	(!A0 * !A1 * B0 * C1 * Y)	0.00006	0.00006	0.00007
	(!A0 * !A1 * B0 * C1 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00020	-0.00018	-0.00016
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00004	-0.00004	-0.00003
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	0.00006	0.00006	0.00007
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00020	-0.00019	-0.00016
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !B0 * C1 * Y)	-0.00024	-0.00024	-0.00024
	(!A0 * !A1 * !B0 * C1 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * C1 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * !B0 * C1 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	-0.00024	-0.00024	-0.00024
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00024	-0.00024	-0.00024
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00005	0.00005	0.00005

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X2H7H	**(A1 * B0 * C1 * !Y)**	-0.00000	0.00000	0.00000
	(A1 * B0 * C1 * !Y)	0.00006	0.00006	0.00006
	(A1 * B0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * C1 * !Y)	-0.00040	-0.00040	-0.00040
	(A1 * B0 * C0 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !C1 * !Y)	0.00006	0.00006	0.00006
	(A1 * B0 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * C0 * !C1 * !Y)	-0.00040	-0.00040	-0.00040
	(A1 * B0 * !C0 * !C1 * Y)	0.00019	0.00019	0.00019
	(A1 * B0 * !C0 * !C1 * Y)	0.00004	0.00004	0.00004
	(A1 * B0 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * !C1 * Y)	-0.00030	-0.00030	-0.00030
	(A1 * !B0 * !C0 * !C1 * Y)	0.00024	0.00024	0.00024
	(A1 * !B0 * !C0 * !C1 * Y)	0.00001	0.00002	0.00002
	(A1 * !B0 * !C0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !C0 * !C1 * Y)	-0.00025	-0.00023	-0.00020
	(A0 * !A1 * B0 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * B0 * C1 * !Y)	0.00006	0.00006	0.00006
	(A0 * !A1 * B0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B0 * C1 * !Y)	-0.00040	-0.00040	-0.00039
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00006	0.00006	0.00006
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00040	-0.00040	-0.00039
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00019	0.00019	0.00019
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00003	0.00004	0.00004
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00030	-0.00030	-0.00029
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00024	0.00024	0.00024
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00001	0.00002	0.00002
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00003	-0.00002	-0.00002
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00025	-0.00023	-0.00020
	(!A0 * !A1 * B0 * C1 * Y)	0.00020	0.00020	0.00020
	(!A0 * !A1 * B0 * C1 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * B0 * C1 * Y)	-0.00007	-0.00006	-0.00006
	(!A0 * !A1 * B0 * C1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	0.00020	0.00020	0.00020
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	0.00003	0.00004	0.00004
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00007	-0.00006	-0.00006
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00020	0.00020	0.00020
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !B0 * C1 * Y)	0.00024	0.00024	0.00024
	(!A0 * !A1 * !B0 * C1 * Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * !B0 * C1 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * !B0 * C1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	0.00024	0.00024	0.00024
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	0.00000	0.00001	0.00002
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00024	0.00024	0.00024
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00005	-0.00005	-0.00005

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X2H7H	**(A1 * B1 * C1 * !Y)**	-0.00016	-0.00015	-0.00012
	(A1 * B1 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B1 * C1 * !Y)	0.00038	0.00038	0.00038
	(A1 * B0 * !B1 * C1 * !Y)	-0.00016	-0.00015	-0.00013
	(A1 * B0 * !B1 * C1 * !Y)	-0.00004	-0.00003	-0.00003
	(A1 * B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !B1 * C1 * !Y)	0.00038	0.00038	0.00039
	(A1 * !B0 * !B1 * C1 * Y)	-0.00030	-0.00028	-0.00026
	(A1 * !B0 * !B1 * C1 * Y)	-0.00004	-0.00003	-0.00003
	(A1 * !B0 * !B1 * C1 * Y)	0.00004	0.00004	0.00004
	(A1 * !B0 * !B1 * C1 * Y)	0.00010	0.00010	0.00010
	(A1 * !B0 * !B1 * !C1 * Y)	-0.00033	-0.00033	-0.00032
	(A1 * !B0 * !B1 * !C1 * Y)	-0.00002	-0.00002	-0.00001
	(A1 * !B0 * !B1 * !C1 * Y)	0.00004	0.00004	0.00004
	(A1 * !B0 * !B1 * !C1 * Y)	0.00010	0.00011	0.00011
	(A0 * !A1 * B1 * C1 * !Y)	-0.00016	-0.00015	-0.00012
	(A0 * !A1 * B1 * C1 * !Y)	-0.00004	-0.00003	-0.00003
	(A0 * !A1 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B1 * C1 * !Y)	0.00038	0.00038	0.00038
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00016	-0.00015	-0.00012
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00004	-0.00003	-0.00003
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00038	0.00038	0.00038
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00030	-0.00028	-0.00026
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00004	-0.00003	-0.00003
	(!A1 * !B0 * !B1 * C1 * Y)	0.00004	0.00004	0.00004
	(!A1 * !B0 * !B1 * C1 * Y)	0.00010	0.00011	0.00011
	(!A1 * !B0 * !B1 * !C1 * Y)	-0.00033	-0.00033	-0.00032
	(!A1 * !B0 * !B1 * !C1 * Y)	-0.00002	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * !C1 * Y)	0.00004	0.00004	0.00004
	(!A1 * !B0 * !B1 * !C1 * Y)	0.00010	0.00010	0.00011
	(!A0 * !A1 * B1 * C1 * Y)	-0.00030	-0.00028	-0.00026
	(!A0 * !A1 * B1 * C1 * Y)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * B1 * C1 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * B1 * C1 * Y)	0.00010	0.00010	0.00010
	(!A0 * !A1 * B1 * !C1 * Y)	-0.00033	-0.00033	-0.00032
	(!A0 * !A1 * B1 * !C1 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B1 * !C1 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * B1 * !C1 * Y)	0.00009	0.00010	0.00010
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00030	-0.00028	-0.00026
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	0.00010	0.00010	0.00010
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	-0.00033	-0.00033	-0.00032
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	0.00009	0.00010	0.00010

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X2H7H	**(A1 * B1 * C1 * !Y)**	0.00016	0.00016	0.00016
	(A1 * B1 * C1 * !Y)	0.00003	0.00003	0.00003
	(A1 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * C1 * !Y)	-0.00038	-0.00038	-0.00038
	(A1 * B0 * !B1 * C1 * !Y)	0.00016	0.00016	0.00016
	(A1 * B0 * !B1 * C1 * !Y)	0.00003	0.00003	0.00004
	(A1 * B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !B1 * C1 * !Y)	-0.00038	-0.00038	-0.00038
	(A1 * !B0 * !B1 * C1 * Y)	0.00029	0.00030	0.00030
	(A1 * !B0 * !B1 * C1 * Y)	0.00003	0.00003	0.00004
	(A1 * !B0 * !B1 * C1 * Y)	-0.00004	-0.00004	-0.00004
	(A1 * !B0 * !B1 * C1 * Y)	-0.00010	-0.00010	-0.00010
	(A1 * !B0 * !B1 * !C1 * Y)	0.00033	0.00033	0.00033
	(A1 * !B0 * !B1 * !C1 * Y)	0.00001	0.00002	0.00002
	(A1 * !B0 * !B1 * !C1 * Y)	-0.00004	-0.00004	-0.00004
	(A1 * !B0 * !B1 * !C1 * Y)	-0.00010	-0.00010	-0.00010
	(A0 * !A1 * B1 * C1 * !Y)	0.00016	0.00016	0.00016
	(A0 * !A1 * B1 * C1 * !Y)	0.00003	0.00003	0.00004
	(A0 * !A1 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B1 * C1 * !Y)	-0.00038	-0.00038	-0.00038
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00016	0.00016	0.00016
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00003	0.00003	0.00004
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00038	-0.00038	-0.00038
	(!A1 * !B0 * !B1 * C1 * Y)	0.00029	0.00030	0.00030
	(!A1 * !B0 * !B1 * C1 * Y)	0.00003	0.00003	0.00004
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00010	-0.00010	-0.00010
	(!A1 * !B0 * !B1 * !C1 * Y)	0.00033	0.00033	0.00033
	(!A1 * !B0 * !B1 * !C1 * Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * !B1 * !C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * !B0 * !B1 * !C1 * Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !A1 * B1 * C1 * Y)	0.00029	0.00030	0.00030
	(!A0 * !A1 * B1 * C1 * Y)	0.00003	0.00003	0.00004
	(!A0 * !A1 * B1 * C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * B1 * C1 * Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !A1 * B1 * !C1 * Y)	0.00033	0.00033	0.00033
	(!A0 * !A1 * B1 * !C1 * Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * B1 * !C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * B1 * !C1 * Y)	-0.00010	-0.00010	-0.00009
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	0.00029	0.00030	0.00030
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	0.00003	0.00003	0.00004
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	0.00033	0.00033	0.00033
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	0.00001	0.00001	0.00002
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	-0.00010	-0.00010	-0.00009

Passive power(pJ) for C1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X2H7H	**(A1 * B1 * C0 * !Y)**	-0.00000	-0.00000	0.00000
	(A1 * B1 * C0 * !Y)	-0.00005	-0.00005	-0.00005
	(A1 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B1 * C0 * !Y)	0.00043	0.00043	0.00043
	(A1 * B0 * !B1 * C0 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C0 * !Y)	-0.00005	-0.00005	-0.00005
	(A1 * B0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !B1 * C0 * !Y)	0.00043	0.00043	0.00043
	(A1 * !B0 * !B1 * C0 * Y)	-0.00034	-0.00032	-0.00030
	(A1 * !B0 * !B1 * C0 * Y)	-0.00004	-0.00004	-0.00003
	(A1 * !B0 * !B1 * C0 * Y)	0.00004	0.00004	0.00004
	(A1 * !B0 * !B1 * C0 * Y)	0.00005	0.00005	0.00005
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00038	-0.00037	-0.00037
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00002	-0.00001	-0.00001
	(A1 * !B0 * !B1 * !C0 * Y)	0.00004	0.00004	0.00004
	(A1 * !B0 * !B1 * !C0 * Y)	0.00004	0.00005	0.00005
	(A0 * !A1 * B1 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * B1 * C0 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * !A1 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B1 * C0 * !Y)	0.00043	0.00043	0.00043
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00006	-0.00005	-0.00005
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00043	0.00043	0.00043
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00034	-0.00032	-0.00030
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00004	-0.00004	-0.00003
	(!A1 * !B0 * !B1 * C0 * Y)	0.00004	0.00004	0.00004
	(!A1 * !B0 * !B1 * C0 * Y)	0.00005	0.00005	0.00005
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00038	-0.00037	-0.00037
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00004	0.00004	0.00004
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B1 * C0 * Y)	-0.00034	-0.00032	-0.00030
	(!A0 * !A1 * B1 * C0 * Y)	-0.00004	-0.00004	-0.00003
	(!A0 * !A1 * B1 * C0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * B1 * C0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00038	-0.00037	-0.00037
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !A1 * B1 * !C0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * B1 * !C0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00034	-0.00032	-0.00030
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	-0.00038	-0.00037	-0.00037
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	0.00004	0.00004	0.00004

Passive power(pJ) for C1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

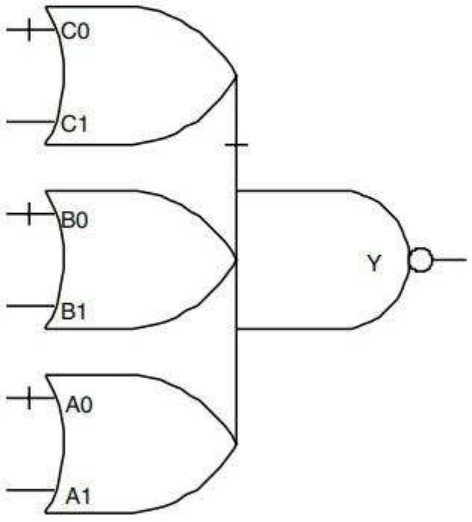
OAI222X2H7H	**(A1 * B1 * C0 * !Y)**	-0.00000	0.00000	0.00000
	(A1 * B1 * C0 * !Y)	0.00005	0.00006	0.00006
	(A1 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * C0 * !Y)	-0.00043	-0.00043	-0.00043
	(A1 * B0 * !B1 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !B1 * C0 * !Y)	0.00005	0.00006	0.00006
	(A1 * B0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !B1 * C0 * !Y)	-0.00043	-0.00043	-0.00043
	(A1 * !B0 * !B1 * C0 * Y)	0.00034	0.00034	0.00034
	(A1 * !B0 * !B1 * C0 * Y)	0.00004	0.00004	0.00004
	(A1 * !B0 * !B1 * C0 * Y)	-0.00004	-0.00004	-0.00004
	(A1 * !B0 * !B1 * C0 * Y)	-0.00005	-0.00005	-0.00004
	(A1 * !B0 * !B1 * !C0 * Y)	0.00037	0.00038	0.00038
	(A1 * !B0 * !B1 * !C0 * Y)	0.00001	0.00002	0.00002
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00004	-0.00004	-0.00004
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00005	-0.00005	-0.00004
	(A0 * !A1 * B1 * C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C0 * !Y)	0.00005	0.00006	0.00006
	(A0 * !A1 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B1 * C0 * !Y)	-0.00043	-0.00043	-0.00043
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00006	0.00006	0.00006
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00043	-0.00043	-0.00043
	(!A1 * !B0 * !B1 * C0 * Y)	0.00034	0.00034	0.00034
	(!A1 * !B0 * !B1 * C0 * Y)	0.00003	0.00004	0.00004
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00005	-0.00005	-0.00004
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00037	0.00038	0.00038
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !A1 * B1 * C0 * Y)	0.00034	0.00034	0.00034
	(!A0 * !A1 * B1 * C0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * B1 * C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * B1 * C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * B1 * !C0 * Y)	0.00037	0.00038	0.00038
	(!A0 * !A1 * B1 * !C0 * Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	0.00034	0.00034	0.00034
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	0.00003	0.00004	0.00004
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	0.00037	0.00038	0.00038
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	0.00001	0.00001	0.00002
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	-0.00004	-0.00004	-0.00004

OAI222X3H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI222 cell provides the logical inverted AND of three OR groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT						OUTPUT
A0	A1	B0	B1	C0	C1	Y
0	0	x	x	x	x	1
x	1	0	0	x	x	1
x	1	x	1	0	0	1
x	1	x	1	x	1	0
x	1	x	1	1	x	0
x	1	1	x	0	0	1
x	1	1	x	x	1	0
x	1	1	x	1	x	0
1	x	0	0	x	x	1
1	x	x	1	0	0	1
1	x	x	1	x	1	0
1	x	x	1	1	x	0
1	x	1	x	0	0	1
1	x	1	x	x	1	0
1	x	1	x	1	x	0

Footprint

Cell Name	Area
OAI222X3H7H	5.60000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	A1	B0	B1	C0	C1	Y
OAI222X3H7H	0.00181	0.00195	0.00184	0.00193	0.00190	0.00200	0.03941

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI222X3H7H	0.00000	0.04008	0.06367

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI222X3H7H	A0->Y (FR)	0.07603	0.25304	0.74663
	A1->Y (FR)	0.07058	0.24288	0.73391
	B0->Y (FR)	0.06391	0.23720	0.73034
	B1->Y (FR)	0.05851	0.22724	0.71797
	C0->Y (FR)	0.04834	0.21780	0.71247
	C1->Y (FR)	0.04291	0.20689	0.70057

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI222X3H7H	A0->Y (RF)	0.08512	0.25527	0.71551
	A1->Y (RF)	0.07810	0.24722	0.70715
	B0->Y (RF)	0.07863	0.25109	0.73484
	B1->Y (RF)	0.07302	0.24443	0.72859
	C0->Y (RF)	0.06161	0.22779	0.70638
	C1->Y (RF)	0.05506	0.21974	0.69861

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI222X3H7H	A0	0.00527	0.00534	0.00539
	A0	-0.00037	-0.00037	-0.00037
	A0	0.00054	0.00055	0.00055
	A0	-0.00000	0.00005	0.00009
	A1	0.00462	0.00475	0.00483
	A1	-0.00025	-0.00024	-0.00024
	A1	0.00054	0.00055	0.00055
	A1	-0.00007	-0.00001	0.00005
	B0	0.00459	0.00467	0.00472
	B0	-0.00040	-0.00037	-0.00031
	B0	0.00035	0.00035	0.00038
	B0	0.00002	0.00010	0.00015
	B1	0.00401	0.00412	0.00420
	B1	-0.00024	-0.00024	-0.00024
	B1	0.00034	0.00035	0.00040
	B1	-0.00005	0.00004	0.00010
	C0	0.00382	0.00390	0.00396
	C0	-0.00038	-0.00037	-0.00037
	C0	0.00013	0.00014	0.00024
	C0	-0.00005	0.00004	0.00011
	C1	0.00325	0.00335	0.00344
	C1	-0.00026	-0.00025	-0.00019
	C1	0.00012	0.00013	0.00015
	C1	-0.00010	-0.00000	0.00008

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI222X3H7H	A0	-0.00008	-0.00002	0.00001
	A0	0.00063	0.00064	0.00064
	A0	-0.00052	-0.00052	-0.00051
	A0	0.00515	0.00521	0.00524
	A1	-0.00010	-0.00001	0.00004
	A1	0.00050	0.00051	0.00051
	A1	-0.00052	-0.00052	-0.00051
	A1	0.00476	0.00484	0.00488
	B0	-0.00012	-0.00006	0.00003
	B0	0.00063	0.00064	0.00064
	B0	-0.00034	-0.00033	-0.00032
	B0	0.00418	0.00427	0.00431
	B1	-0.00011	-0.00001	0.00004
	B1	0.00050	0.00051	0.00056
	B1	-0.00034	-0.00033	-0.00033
	B1	0.00393	0.00401	0.00406
	C0	-0.00010	-0.00004	0.00001
	C0	0.00063	0.00064	0.00064
	C0	-0.00013	-0.00013	-0.00011
	C0	0.00326	0.00336	0.00342
	C1	-0.00018	-0.00008	0.00004
	C1	0.00050	0.00050	0.00051
	C1	-0.00013	-0.00013	-0.00010
	C1	0.00290	0.00301	0.00308

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X3H7H	**(A1 * B1 * C1 * !Y)**	-0.00029	-0.00025	-0.00020
	(A1 * B1 * C1 * !Y)	-0.00006	-0.00006	-0.00006
	(A1 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B1 * C1 * !Y)	0.00062	0.00063	0.00065
	(A1 * B1 * C0 * !C1 * !Y)	-0.00029	-0.00025	-0.00020
	(A1 * B1 * C0 * !C1 * !Y)	-0.00006	-0.00006	-0.00006
	(A1 * B1 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B1 * C0 * !C1 * !Y)	0.00062	0.00063	0.00065
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	-0.00029	-0.00026	-0.00021
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	-0.00006	-0.00006	-0.00005
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	0.00061	0.00061	0.00062
	(A1 * B0 * !B1 * C1 * !Y)	-0.00029	-0.00025	-0.00020
	(A1 * B0 * !B1 * C1 * !Y)	-0.00006	-0.00006	-0.00005
	(A1 * B0 * !B1 * C1 * !Y)	0.00001	0.00002	0.00004
	(A1 * B0 * !B1 * C1 * !Y)	0.00062	0.00063	0.00063
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	-0.00029	-0.00025	-0.00020
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	-0.00006	-0.00006	-0.00005
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	0.00062	0.00063	0.00063
	(A1 * !B0 * !B1 * Y)	-0.00029	-0.00026	-0.00022
	(A1 * !B0 * !B1 * Y)	-0.00006	-0.00006	-0.00005
	(A1 * !B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * Y)	0.00061	0.00061	0.00062
	(!A1 * B1 * !C0 * !C1 * Y)	-0.00039	-0.00039	-0.00038
	(!A1 * B1 * !C0 * !C1 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * B1 * !C0 * !C1 * Y)	0.00003	0.00004	0.00004
	(!A1 * B1 * !C0 * !C1 * Y)	0.00047	0.00048	0.00048
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	-0.00039	-0.00039	-0.00038
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	0.00004	0.00005	0.00006
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	0.00047	0.00048	0.00049
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00039	-0.00038	-0.00038
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00003	-0.00002	-0.00001
	(!A1 * !B0 * !B1 * C1 * Y)	0.00004	0.00004	0.00004
	(!A1 * !B0 * !B1 * C1 * Y)	0.00049	0.00049	0.00050
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	-0.00039	-0.00038	-0.00038
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	-0.00003	-0.00002	-0.00001
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	0.00004	0.00004	0.00004
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	0.00049	0.00049	0.00049
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00039	-0.00038	-0.00038
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00003	-0.00002	-0.00002
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	0.00004	0.00004	0.00004
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	0.00049	0.00049	0.00049

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X3H7H	**(A1 * B1 * C1 * !Y)**	0.00028	0.00028	0.00029
	(A1 * B1 * C1 * !Y)	0.00006	0.00006	0.00006
	(A1 * B1 * C1 * !Y)	-0.00001	-0.00001	0.00001
	(A1 * B1 * C1 * !Y)	-0.00062	-0.00062	-0.00062
	(A1 * B1 * C0 * !C1 * !Y)	0.00028	0.00028	0.00029
	(A1 * B1 * C0 * !C1 * !Y)	0.00006	0.00006	0.00006
	(A1 * B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * C0 * !C1 * !Y)	-0.00062	-0.00062	-0.00062
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	0.00028	0.00029	0.00029
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	0.00006	0.00006	0.00006
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	-0.00061	-0.00061	-0.00060
	(A1 * B0 * !B1 * C1 * !Y)	0.00028	0.00029	0.00029
	(A1 * B0 * !B1 * C1 * !Y)	0.00006	0.00006	0.00006
	(A1 * B0 * !B1 * C1 * !Y)	-0.00002	-0.00001	-0.00001
	(A1 * B0 * !B1 * C1 * !Y)	-0.00062	-0.00062	-0.00061
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	0.00028	0.00028	0.00029
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	0.00005	0.00006	0.00006
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	-0.00062	-0.00062	-0.00061
	(A1 * !B0 * !B1 * Y)	0.00029	0.00029	0.00029
	(A1 * !B0 * !B1 * Y)	0.00005	0.00006	0.00006
	(A1 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * Y)	-0.00061	-0.00061	-0.00060
	(!A1 * B1 * !C0 * !C1 * Y)	0.00039	0.00039	0.00039
	(!A1 * B1 * !C0 * !C1 * Y)	0.00001	0.00002	0.00003
	(!A1 * B1 * !C0 * !C1 * Y)	-0.00004	-0.00004	-0.00003
	(!A1 * B1 * !C0 * !C1 * Y)	-0.00048	-0.00044	-0.00039
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	0.00039	0.00039	0.00039
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	0.00001	0.00002	0.00002
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	-0.00006	-0.00005	-0.00004
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	-0.00048	-0.00044	-0.00039
	(!A1 * !B0 * !B1 * C1 * Y)	0.00038	0.00038	0.00039
	(!A1 * !B0 * !B1 * C1 * Y)	0.00001	0.00002	0.00003
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00049	-0.00046	-0.00040
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	0.00038	0.00038	0.00039
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	0.00002	0.00003	0.00004
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	-0.00049	-0.00046	-0.00040
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	0.00038	0.00038	0.00039
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	0.00002	0.00002	0.00003
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00049	-0.00046	-0.00041

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X3H7H	**(A0 * B1 * C1 * !Y)**	-0.00000	0.00000	0.00000
	(A0 * B1 * C1 * !Y)	-0.00008	-0.00007	-0.00007
	(A0 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B1 * C1 * !Y)	0.00075	0.00076	0.00077
	(A0 * B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * B1 * C0 * !C1 * !Y)	-0.00008	-0.00008	-0.00008
	(A0 * B1 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B1 * C0 * !C1 * !Y)	0.00076	0.00076	0.00077
	(A0 * B1 * !C0 * !C1 * Y)	-0.00035	-0.00032	-0.00027
	(A0 * B1 * !C0 * !C1 * Y)	-0.00006	-0.00006	-0.00005
	(A0 * B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * B1 * !C0 * !C1 * Y)	0.00055	0.00056	0.00057
	(A0 * B0 * !B1 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * !B1 * C1 * !Y)	-0.00008	-0.00007	-0.00007
	(A0 * B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !B1 * C1 * !Y)	0.00076	0.00076	0.00077
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	-0.00008	-0.00007	-0.00007
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	0.00075	0.00076	0.00077
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00035	-0.00032	-0.00027
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00006	-0.00005	-0.00004
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00055	0.00056	0.00056
	(A0 * !B0 * !B1 * C1 * Y)	-0.00035	-0.00032	-0.00028
	(A0 * !B0 * !B1 * C1 * Y)	-0.00006	-0.00005	-0.00005
	(A0 * !B0 * !B1 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * C1 * Y)	0.00055	0.00056	0.00057
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00035	-0.00032	-0.00028
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00006	-0.00006	-0.00005
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00001	0.00001	0.00002
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00055	0.00056	0.00057
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00035	-0.00032	-0.00028
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00005	-0.00005	-0.00005
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00055	0.00056	0.00056
	(!A0 * B1 * !C0 * !C1 * Y)	-0.00044	-0.00044	-0.00044
	(!A0 * B1 * !C0 * !C1 * Y)	-0.00003	-0.00002	-0.00002
	(!A0 * B1 * !C0 * !C1 * Y)	0.00004	0.00005	0.00005
	(!A0 * B1 * !C0 * !C1 * Y)	0.00042	0.00042	0.00042
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00044	-0.00044	-0.00044
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00002	-0.00002	-0.00000
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00004	0.00004	0.00005
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00042	0.00043	0.00043
	(!A0 * !B0 * !B1 * C1 * Y)	-0.00044	-0.00044	-0.00043
	(!A0 * !B0 * !B1 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * !B1 * C1 * Y)	0.00004	0.00004	0.00004
	(!A0 * !B0 * !B1 * C1 * Y)	0.00042	0.00043	0.00044
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00044	-0.00044	-0.00043
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00003	-0.00002	-0.00000
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00004	0.00004	0.00005
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00043	0.00043	0.00044
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00044	-0.00044	-0.00043
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00004	0.00004	0.00004
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00043	0.00043	0.00043

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X3H7H	**(A0 * B1 * C1 * !Y)**	-0.00000	-0.00000	0.00000
	(A0 * B1 * C1 * !Y)	0.00008	0.00008	0.00008
	(A0 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * C1 * !Y)	-0.00077	-0.00076	-0.00075
	(A0 * B1 * C0 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !C1 * !Y)	0.00008	0.00008	0.00008
	(A0 * B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * C0 * !C1 * !Y)	-0.00077	-0.00076	-0.00076
	(A0 * B1 * !C0 * !C1 * Y)	0.00035	0.00035	0.00035
	(A0 * B1 * !C0 * !C1 * Y)	0.00005	0.00006	0.00006
	(A0 * B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * !C0 * !C1 * Y)	-0.00056	-0.00055	-0.00055
	(A0 * B0 * !B1 * C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C1 * !Y)	0.00008	0.00008	0.00008
	(A0 * B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !B1 * C1 * !Y)	-0.00077	-0.00076	-0.00075
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	0.00008	0.00008	0.00008
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	-0.00077	-0.00076	-0.00075
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00035	0.00035	0.00035
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00004	0.00005	0.00006
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00056	-0.00055	-0.00055
	(A0 * !B0 * !B1 * C1 * Y)	0.00035	0.00035	0.00035
	(A0 * !B0 * !B1 * C1 * Y)	0.00005	0.00005	0.00006
	(A0 * !B0 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * C1 * Y)	-0.00056	-0.00055	-0.00055
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00035	0.00035	0.00035
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00005	0.00006	0.00007
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00055	-0.00055	-0.00053
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00035	0.00035	0.00035
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00005	0.00005	0.00005
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00055	-0.00055	-0.00054
	(!A0 * B1 * !C0 * !C1 * Y)	0.00044	0.00044	0.00044
	(!A0 * B1 * !C0 * !C1 * Y)	0.00002	0.00003	0.00003
	(!A0 * B1 * !C0 * !C1 * Y)	-0.00005	-0.00005	-0.00004
	(!A0 * B1 * !C0 * !C1 * Y)	-0.00042	-0.00039	-0.00034
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00044	0.00044	0.00044
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00002	0.00002	0.00003
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00005	-0.00004	-0.00004
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00043	-0.00039	-0.00034
	(!A0 * !B0 * !B1 * C1 * Y)	0.00043	0.00044	0.00044
	(!A0 * !B0 * !B1 * C1 * Y)	0.00002	0.00003	0.00003
	(!A0 * !B0 * !B1 * C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !B0 * !B1 * C1 * Y)	-0.00043	-0.00040	-0.00034
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00043	0.00044	0.00044
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00002	0.00003	0.00003
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00005	-0.00004	-0.00004
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00043	-0.00040	-0.00034
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00043	0.00044	0.00044
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00002	0.00002	0.00003
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00043	-0.00040	-0.00034

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X3H7H	**(A1 * B1 * C1 * !Y)**	-0.00027	-0.00024	-0.00019
	(A1 * B1 * C1 * !Y)	-0.00005	-0.00005	-0.00005
	(A1 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B1 * C1 * !Y)	0.00065	0.00065	0.00066
	(A1 * B1 * C0 * !C1 * !Y)	-0.00027	-0.00024	-0.00019
	(A1 * B1 * C0 * !C1 * !Y)	-0.00005	-0.00005	-0.00005
	(A1 * B1 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B1 * C0 * !C1 * !Y)	0.00065	0.00065	0.00067
	(A1 * !B1 * !C0 * !C1 * Y)	-0.00040	-0.00040	-0.00040
	(A1 * !B1 * !C0 * !C1 * Y)	-0.00003	-0.00003	-0.00002
	(A1 * !B1 * !C0 * !C1 * Y)	0.00003	0.00004	0.00004
	(A1 * !B1 * !C0 * !C1 * Y)	0.00050	0.00050	0.00050
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	-0.00032	-0.00030	-0.00026
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	-0.00006	-0.00005	-0.00005
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00002
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	0.00059	0.00060	0.00060
	(A0 * !A1 * B1 * C1 * !Y)	-0.00027	-0.00024	-0.00019
	(A0 * !A1 * B1 * C1 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * !A1 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B1 * C1 * !Y)	0.00065	0.00065	0.00066
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00027	-0.00024	-0.00019
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00064	0.00065	0.00066
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00040	-0.00040	-0.00040
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00003	-0.00002	-0.00001
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00004	0.00004	0.00004
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00050	0.00050	0.00050
	(!A0 * !A1 * B1 * C1 * Y)	-0.00034	-0.00032	-0.00028
	(!A0 * !A1 * B1 * C1 * Y)	-0.00006	-0.00005	-0.00005
	(!A0 * !A1 * B1 * C1 * Y)	0.00010	0.00010	0.00010
	(!A0 * !A1 * B1 * C1 * Y)	0.00016	0.00017	0.00017
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00035	-0.00032	-0.00028
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00005	-0.00005	-0.00003
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	0.00010	0.00010	0.00010
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	0.00016	0.00016	0.00017
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	-0.00035	-0.00032	-0.00029
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	0.00012	0.00012	0.00013
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	0.00016	0.00016	0.00017
	(!A0 * !A1 * !B1 * C1 * Y)	-0.00041	-0.00041	-0.00041
	(!A0 * !A1 * !B1 * C1 * Y)	-0.00003	-0.00002	-0.00002
	(!A0 * !A1 * !B1 * C1 * Y)	0.00011	0.00011	0.00011
	(!A0 * !A1 * !B1 * C1 * Y)	0.00015	0.00015	0.00015
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	-0.00041	-0.00041	-0.00040
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	-0.00003	-0.00002	-0.00001
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	0.00010	0.00011	0.00011
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	0.00014	0.00015	0.00015
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00041	-0.00041	-0.00041
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00003	-0.00002	-0.00002
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00015	0.00015	0.00015

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X3H7H	**(A1 * B1 * C1 * !Y)**	0.00026	0.00026	0.00027
	(A1 * B1 * C1 * !Y)	0.00005	0.00005	0.00005
	(A1 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * C1 * !Y)	-0.00065	-0.00064	-0.00064
	(A1 * B1 * C0 * !C1 * !Y)	0.00026	0.00026	0.00027
	(A1 * B1 * C0 * !C1 * !Y)	0.00005	0.00005	0.00005
	(A1 * B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * C0 * !C1 * !Y)	-0.00065	-0.00064	-0.00064
	(A1 * !B1 * !C0 * !C1 * Y)	0.00040	0.00040	0.00040
	(A1 * !B1 * !C0 * !C1 * Y)	0.00002	0.00003	0.00004
	(A1 * !B1 * !C0 * !C1 * Y)	-0.00004	-0.00004	-0.00003
	(A1 * !B1 * !C0 * !C1 * Y)	-0.00050	-0.00047	-0.00042
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	0.00032	0.00032	0.00032
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	0.00005	0.00005	0.00006
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	-0.00060	-0.00059	-0.00059
	(A0 * !A1 * B1 * C1 * !Y)	0.00027	0.00027	0.00027
	(A0 * !A1 * B1 * C1 * !Y)	0.00005	0.00005	0.00005
	(A0 * !A1 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B1 * C1 * !Y)	-0.00065	-0.00064	-0.00064
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00027	0.00027	0.00027
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00005	0.00005	0.00005
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00065	-0.00064	-0.00064
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00040	0.00040	0.00041
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00001	0.00002	0.00003
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00004	-0.00004	-0.00003
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00050	-0.00047	-0.00042
	(!A0 * !A1 * B1 * C1 * Y)	0.00034	0.00034	0.00035
	(!A0 * !A1 * B1 * C1 * Y)	0.00005	0.00005	0.00006
	(!A0 * !A1 * B1 * C1 * Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !A1 * B1 * C1 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	0.00035	0.00035	0.00035
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	0.00003	0.00005	0.00005
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	0.00034	0.00034	0.00035
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	-0.00013	-0.00012	-0.00012
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !A1 * !B1 * C1 * Y)	0.00041	0.00041	0.00042
	(!A0 * !A1 * !B1 * C1 * Y)	0.00002	0.00003	0.00004
	(!A0 * !A1 * !B1 * C1 * Y)	-0.00011	-0.00010	-0.00010
	(!A0 * !A1 * !B1 * C1 * Y)	-0.00015	-0.00015	-0.00014
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	0.00041	0.00041	0.00042
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	0.00002	0.00003	0.00004
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	-0.00011	-0.00011	-0.00010
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	-0.00015	-0.00015	-0.00014
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00041	0.00041	0.00042
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00002	0.00002	0.00003
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00015	-0.00015	-0.00015

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X3H7H	**(A1 * B0 * C1 * !Y)**	-0.00000	-0.00000	0.00000
	(A1 * B0 * C1 * !Y)	-0.00008	-0.00007	-0.00007
	(A1 * B0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * C1 * !Y)	0.00078	0.00078	0.00078
	(A1 * B0 * C0 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !C1 * !Y)	-0.00007	-0.00007	-0.00007
	(A1 * B0 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * C0 * !C1 * !Y)	0.00077	0.00078	0.00078
	(A1 * B0 * !C0 * !C1 * Y)	-0.00038	-0.00034	-0.00030
	(A1 * B0 * !C0 * !C1 * Y)	-0.00005	-0.00005	-0.00005
	(A1 * B0 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * !C1 * Y)	0.00054	0.00054	0.00054
	(A1 * !B0 * !C0 * !C1 * Y)	-0.00046	-0.00046	-0.00045
	(A1 * !B0 * !C0 * !C1 * Y)	-0.00003	-0.00002	-0.00002
	(A1 * !B0 * !C0 * !C1 * Y)	0.00003	0.00003	0.00004
	(A1 * !B0 * !C0 * !C1 * Y)	0.00044	0.00045	0.00045
	(A0 * !A1 * B0 * C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C1 * !Y)	-0.00007	-0.00007	-0.00007
	(A0 * !A1 * B0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B0 * C1 * !Y)	0.00077	0.00078	0.00078
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00007	-0.00007	-0.00007
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00077	0.00078	0.00078
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00038	-0.00035	-0.00031
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00006	-0.00005	-0.00004
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00054	0.00054	0.00054
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00046	-0.00046	-0.00045
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00003	-0.00002	-0.00001
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00003	0.00004	0.00004
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00045	0.00045	0.00045
	(!A0 * !A1 * B0 * C1 * Y)	-0.00040	-0.00036	-0.00032
	(!A0 * !A1 * B0 * C1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B0 * C1 * Y)	0.00009	0.00010	0.00010
	(!A0 * !A1 * B0 * C1 * Y)	0.00012	0.00013	0.00013
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00040	-0.00037	-0.00033
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00006	-0.00005	-0.00005
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	0.00010	0.00010	0.00010
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	0.00012	0.00013	0.00014
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00040	-0.00037	-0.00033
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00012	0.00012	0.00012
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00012	0.00013	0.00013
	(!A0 * !A1 * !B0 * C1 * Y)	-0.00047	-0.00047	-0.00047
	(!A0 * !A1 * !B0 * C1 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * !B0 * C1 * Y)	0.00010	0.00010	0.00011
	(!A0 * !A1 * !B0 * C1 * Y)	0.00011	0.00011	0.00011
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	-0.00047	-0.00047	-0.00047
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	-0.00002	-0.00002	-0.00000
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	0.00010	0.00010	0.00011
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	0.00011	0.00011	0.00012
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00047	-0.00047	-0.00047
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00003	-0.00002	-0.00002
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00012	0.00012	0.00012
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00011	0.00011	0.00012

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X3H7H	**(A1 * B0 * C1 * !Y)**	-0.00000	0.00000	0.00000
	(A1 * B0 * C1 * !Y)	0.00008	0.00008	0.00008
	(A1 * B0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * C1 * !Y)	-0.00078	-0.00078	-0.00077
	(A1 * B0 * C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * C0 * !C1 * !Y)	0.00007	0.00008	0.00008
	(A1 * B0 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * C0 * !C1 * !Y)	-0.00078	-0.00078	-0.00077
	(A1 * B0 * !C0 * !C1 * Y)	0.00037	0.00037	0.00038
	(A1 * B0 * !C0 * !C1 * Y)	0.00005	0.00005	0.00005
	(A1 * B0 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * !C1 * Y)	-0.00054	-0.00054	-0.00053
	(A1 * !B0 * !C0 * !C1 * Y)	0.00046	0.00046	0.00046
	(A1 * !B0 * !C0 * !C1 * Y)	0.00002	0.00003	0.00003
	(A1 * !B0 * !C0 * !C1 * Y)	-0.00004	-0.00003	-0.00003
	(A1 * !B0 * !C0 * !C1 * Y)	-0.00045	-0.00042	-0.00038
	(A0 * !A1 * B0 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * B0 * C1 * !Y)	0.00007	0.00008	0.00008
	(A0 * !A1 * B0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B0 * C1 * !Y)	-0.00078	-0.00078	-0.00077
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00008	0.00008	0.00008
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00078	-0.00078	-0.00077
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00037	0.00038	0.00038
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00004	0.00005	0.00006
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00054	-0.00054	-0.00053
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00046	0.00046	0.00046
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00002	0.00003	0.00003
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00004	-0.00003	-0.00003
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00045	-0.00042	-0.00036
	(!A0 * !A1 * B0 * C1 * Y)	0.00039	0.00040	0.00040
	(!A0 * !A1 * B0 * C1 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B0 * C1 * Y)	-0.00010	-0.00010	-0.00009
	(!A0 * !A1 * B0 * C1 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	0.00040	0.00040	0.00040
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	0.00005	0.00005	0.00006
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00013	-0.00012	-0.00012
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00040	0.00040	0.00040
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00013	-0.00013	-0.00012
	(!A0 * !A1 * !B0 * C1 * Y)	0.00047	0.00047	0.00047
	(!A0 * !A1 * !B0 * C1 * Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * !B0 * C1 * Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !A1 * !B0 * C1 * Y)	-0.00011	-0.00011	-0.00011
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	0.00047	0.00047	0.00047
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	0.00002	0.00003	0.00004
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	-0.00011	-0.00011	-0.00011
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00047	0.00047	0.00047
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00012	-0.00011	-0.00011

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X3H7H	**(A1 * B1 * C1 * !Y)**	-0.00028	-0.00025	-0.00020
	(A1 * B1 * C1 * !Y)	-0.00006	-0.00006	-0.00005
	(A1 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B1 * C1 * !Y)	0.00060	0.00061	0.00062
	(A1 * B0 * !B1 * C1 * !Y)	-0.00028	-0.00025	-0.00020
	(A1 * B0 * !B1 * C1 * !Y)	-0.00006	-0.00006	-0.00005
	(A1 * B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !B1 * C1 * !Y)	0.00060	0.00061	0.00063
	(A1 * !B0 * !B1 * C1 * Y)	-0.00050	-0.00047	-0.00043
	(A1 * !B0 * !B1 * C1 * Y)	-0.00006	-0.00006	-0.00005
	(A1 * !B0 * !B1 * C1 * Y)	0.00005	0.00006	0.00006
	(A1 * !B0 * !B1 * C1 * Y)	0.00017	0.00018	0.00018
	(A1 * !B0 * !B1 * !C1 * Y)	-0.00058	-0.00058	-0.00057
	(A1 * !B0 * !B1 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !B1 * !C1 * Y)	0.00006	0.00006	0.00006
	(A1 * !B0 * !B1 * !C1 * Y)	0.00016	0.00016	0.00016
	(A0 * !A1 * B1 * C1 * !Y)	-0.00028	-0.00025	-0.00020
	(A0 * !A1 * B1 * C1 * !Y)	-0.00006	-0.00006	-0.00005
	(A0 * !A1 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B1 * C1 * !Y)	0.00060	0.00061	0.00063
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00028	-0.00025	-0.00020
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00006	-0.00006	-0.00005
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00060	0.00061	0.00062
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00050	-0.00047	-0.00042
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00006	-0.00005	-0.00004
	(!A1 * !B0 * !B1 * C1 * Y)	0.00005	0.00006	0.00006
	(!A1 * !B0 * !B1 * C1 * Y)	0.00017	0.00017	0.00018
	(!A1 * !B0 * !B1 * !C1 * Y)	-0.00058	-0.00058	-0.00057
	(!A1 * !B0 * !B1 * !C1 * Y)	-0.00003	-0.00002	-0.00002
	(!A1 * !B0 * !B1 * !C1 * Y)	0.00006	0.00006	0.00006
	(!A1 * !B0 * !B1 * !C1 * Y)	0.00016	0.00016	0.00016
	(!A0 * !A1 * B1 * C1 * Y)	-0.00050	-0.00047	-0.00042
	(!A0 * !A1 * B1 * C1 * Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !A1 * B1 * C1 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * B1 * C1 * Y)	0.00016	0.00016	0.00017
	(!A0 * !A1 * B1 * !C1 * Y)	-0.00058	-0.00057	-0.00057
	(!A0 * !A1 * B1 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * !C1 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * B1 * !C1 * Y)	0.00014	0.00014	0.00014
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00050	-0.00047	-0.00043
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	0.00016	0.00016	0.00017
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	-0.00058	-0.00057	-0.00057
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	0.00006	0.00006	0.00007
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	0.00014	0.00014	0.00014

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X3H7H	**(A1 * B1 * C1 * !Y)**	0.00028	0.00028	0.00028
	(A1 * B1 * C1 * !Y)	0.00006	0.00006	0.00006
	(A1 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * C1 * !Y)	-0.00061	-0.00060	-0.00060
	(A1 * B0 * !B1 * C1 * !Y)	0.00028	0.00028	0.00028
	(A1 * B0 * !B1 * C1 * !Y)	0.00005	0.00006	0.00006
	(A1 * B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !B1 * C1 * !Y)	-0.00061	-0.00060	-0.00060
	(A1 * !B0 * !B1 * C1 * Y)	0.00049	0.00050	0.00050
	(A1 * !B0 * !B1 * C1 * Y)	0.00005	0.00006	0.00006
	(A1 * !B0 * !B1 * C1 * Y)	-0.00006	-0.00006	-0.00005
	(A1 * !B0 * !B1 * C1 * Y)	-0.00017	-0.00017	-0.00017
	(A1 * !B0 * !B1 * !C1 * Y)	0.00058	0.00058	0.00059
	(A1 * !B0 * !B1 * !C1 * Y)	0.00002	0.00003	0.00003
	(A1 * !B0 * !B1 * !C1 * Y)	-0.00006	-0.00006	-0.00006
	(A1 * !B0 * !B1 * !C1 * Y)	-0.00016	-0.00016	-0.00016
	(A0 * !A1 * B1 * C1 * !Y)	0.00028	0.00028	0.00028
	(A0 * !A1 * B1 * C1 * !Y)	0.00006	0.00006	0.00006
	(A0 * !A1 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B1 * C1 * !Y)	-0.00061	-0.00060	-0.00060
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00028	0.00028	0.00028
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00006	0.00006	0.00006
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00060	-0.00060	-0.00060
	(!A1 * !B0 * !B1 * C1 * Y)	0.00049	0.00050	0.00050
	(!A1 * !B0 * !B1 * C1 * Y)	0.00004	0.00005	0.00006
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00006	-0.00006	-0.00005
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00018	-0.00017	-0.00017
	(!A1 * !B0 * !B1 * !C1 * Y)	0.00058	0.00058	0.00059
	(!A1 * !B0 * !B1 * !C1 * Y)	0.00002	0.00002	0.00003
	(!A1 * !B0 * !B1 * !C1 * Y)	-0.00006	-0.00006	-0.00006
	(!A1 * !B0 * !B1 * !C1 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !A1 * B1 * C1 * Y)	0.00049	0.00049	0.00050
	(!A0 * !A1 * B1 * C1 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * B1 * C1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * B1 * C1 * Y)	-0.00016	-0.00015	-0.00015
	(!A0 * !A1 * B1 * !C1 * Y)	0.00058	0.00058	0.00059
	(!A0 * !A1 * B1 * !C1 * Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * B1 * !C1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * B1 * !C1 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	0.00049	0.00050	0.00050
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	0.00006	0.00006	0.00007
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00016	-0.00015	-0.00015
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	0.00058	0.00058	0.00059
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	0.00001	0.00002	0.00003
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	-0.00014	-0.00014	-0.00014

Passive power(pJ) for C1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X3H7H	**(A1 * B1 * C0 * !Y)**	-0.00000	-0.00000	0.00000
	(A1 * B1 * C0 * !Y)	-0.00008	-0.00008	-0.00008
	(A1 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B1 * C0 * !Y)	0.00075	0.00076	0.00076
	(A1 * B0 * !B1 * C0 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C0 * !Y)	-0.00008	-0.00008	-0.00007
	(A1 * B0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !B1 * C0 * !Y)	0.00075	0.00076	0.00076
	(A1 * !B0 * !B1 * C0 * Y)	-0.00058	-0.00054	-0.00049
	(A1 * !B0 * !B1 * C0 * Y)	-0.00006	-0.00006	-0.00005
	(A1 * !B0 * !B1 * C0 * Y)	0.00005	0.00005	0.00005
	(A1 * !B0 * !B1 * C0 * Y)	0.00012	0.00013	0.00013
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00066	-0.00065	-0.00064
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !B1 * !C0 * Y)	0.00006	0.00006	0.00006
	(A1 * !B0 * !B1 * !C0 * Y)	0.00011	0.00011	0.00011
	(A0 * !A1 * B1 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * B1 * C0 * !Y)	-0.00008	-0.00008	-0.00008
	(A0 * !A1 * B1 * C0 * !Y)	0.00001	0.00001	0.00002
	(A0 * !A1 * B1 * C0 * !Y)	0.00075	0.00076	0.00076
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00008	-0.00008	-0.00008
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00002
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00075	0.00076	0.00076
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00058	-0.00054	-0.00049
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00007	-0.00006	-0.00005
	(!A1 * !B0 * !B1 * C0 * Y)	0.00005	0.00005	0.00005
	(!A1 * !B0 * !B1 * C0 * Y)	0.00012	0.00012	0.00013
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00066	-0.00065	-0.00064
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00004	-0.00003	-0.00002
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00006	0.00006	0.00006
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00010	0.00011	0.00011
	(!A0 * !A1 * B1 * C0 * Y)	-0.00057	-0.00053	-0.00049
	(!A0 * !A1 * B1 * C0 * Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !A1 * B1 * C0 * Y)	0.00005	0.00006	0.00006
	(!A0 * !A1 * B1 * C0 * Y)	0.00010	0.00011	0.00012
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00066	-0.00065	-0.00064
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00003	-0.00002	-0.00002
	(!A0 * !A1 * B1 * !C0 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * B1 * !C0 * Y)	0.00009	0.00009	0.00009
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00058	-0.00054	-0.00049
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00007	-0.00006	-0.00005
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	0.00005	0.00006	0.00006
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	0.00010	0.00011	0.00012
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	-0.00066	-0.00065	-0.00065
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	0.00006	0.00006	0.00007
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	0.00009	0.00009	0.00010

Passive power(pJ) for C1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

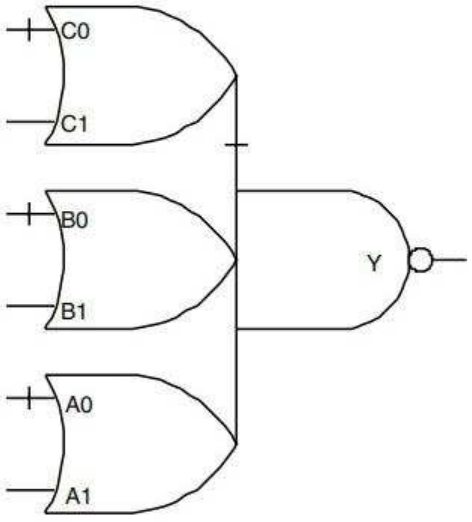
OAI222X3H7H	**(A1 * B1 * C0 * !Y)**	-0.00000	0.00000	0.00000
	(A1 * B1 * C0 * !Y)	0.00008	0.00008	0.00008
	(A1 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * C0 * !Y)	-0.00076	-0.00076	-0.00075
	(A1 * B0 * !B1 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !B1 * C0 * !Y)	0.00008	0.00008	0.00008
	(A1 * B0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !B1 * C0 * !Y)	-0.00076	-0.00076	-0.00075
	(A1 * !B0 * !B1 * C0 * Y)	0.00057	0.00057	0.00058
	(A1 * !B0 * !B1 * C0 * Y)	0.00005	0.00006	0.00006
	(A1 * !B0 * !B1 * C0 * Y)	-0.00005	-0.00005	-0.00005
	(A1 * !B0 * !B1 * C0 * Y)	-0.00012	-0.00012	-0.00011
	(A1 * !B0 * !B1 * !C0 * Y)	0.00065	0.00066	0.00066
	(A1 * !B0 * !B1 * !C0 * Y)	0.00002	0.00003	0.00003
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00005	-0.00005	-0.00005
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00011	-0.00011	-0.00011
	(A0 * !A1 * B1 * C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C0 * !Y)	0.00008	0.00008	0.00008
	(A0 * !A1 * B1 * C0 * !Y)	-0.00002	-0.00001	-0.00001
	(A0 * !A1 * B1 * C0 * !Y)	-0.00076	-0.00076	-0.00075
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00008	0.00008	0.00008
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00002	-0.00001	-0.00001
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00076	-0.00076	-0.00075
	(!A1 * !B0 * !B1 * C0 * Y)	0.00057	0.00057	0.00058
	(!A1 * !B0 * !B1 * C0 * Y)	0.00005	0.00006	0.00007
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00005	-0.00005	-0.00005
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00012	-0.00012	-0.00012
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00065	0.00066	0.00066
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00002	0.00003	0.00005
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00005	-0.00005	-0.00005
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00011	-0.00011	-0.00010
	(!A0 * !A1 * B1 * C0 * Y)	0.00057	0.00057	0.00057
	(!A0 * !A1 * B1 * C0 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * B1 * C0 * Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !A1 * B1 * C0 * Y)	-0.00011	-0.00011	-0.00010
	(!A0 * !A1 * B1 * !C0 * Y)	0.00065	0.00066	0.00066
	(!A0 * !A1 * B1 * !C0 * Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	0.00057	0.00057	0.00058
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	0.00005	0.00006	0.00007
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00011	-0.00011	-0.00010
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	0.00065	0.00066	0.00066
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	0.00002	0.00003	0.00004
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	-0.00009	-0.00009	-0.00009

OAI222X4H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI222 cell provides the logical inverted AND of three OR groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT						OUTPUT
A0	A1	B0	B1	C0	C1	Y
0	0	x	x	x	x	1
x	1	0	0	x	x	1
x	1	x	1	0	0	1
x	1	x	1	x	1	0
x	1	x	1	1	x	0
x	1	1	x	0	0	1
x	1	1	x	x	1	0
x	1	1	x	1	x	0
1	x	0	0	x	x	1
1	x	x	1	0	0	1
1	x	x	1	x	1	0
1	x	x	1	1	x	0
1	x	1	x	0	0	1
1	x	1	x	x	1	0
1	x	1	x	1	x	0

Footprint

Cell Name	Area
OAI222X4H7H	5.88000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	A1	B0	B1	C0	C1	Y
OAI222X4H7H	0.00208	0.00225	0.00213	0.00224	0.00220	0.00233	0.04980

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI222X4H7H	0.00000	0.06267	0.11926

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI222X4H7H	A0->Y (FR)	0.06966	0.24839	0.74795
	A1->Y (FR)	0.06479	0.23890	0.73556
	B0->Y (FR)	0.05887	0.23392	0.73363
	B1->Y (FR)	0.05379	0.22420	0.72220
	C0->Y (FR)	0.04429	0.21555	0.71689
	C1->Y (FR)	0.03914	0.20504	0.70584

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI222X4H7H	A0->Y (RF)	0.07894	0.25007	0.71515
	A1->Y (RF)	0.07253	0.24263	0.70774
	B0->Y (RF)	0.07306	0.24629	0.73483
	B1->Y (RF)	0.06737	0.23948	0.72780
	C0->Y (RF)	0.05764	0.22423	0.70630
	C1->Y (RF)	0.05124	0.21620	0.69758

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI222X4H7H	A0	0.00616	0.00626	0.00632
	A0	-0.00050	-0.00049	-0.00042
	A0	0.00071	0.00072	0.00072
	A0	-0.00016	-0.00011	-0.00006
	A1	0.00539	0.00558	0.00567
	A1	-0.00032	-0.00032	-0.00030
	A1	0.00071	0.00072	0.00072
	A1	-0.00022	-0.00014	-0.00008
	B0	0.00541	0.00550	0.00556
	B0	-0.00053	-0.00050	-0.00049
	B0	0.00046	0.00046	0.00046
	B0	-0.00016	-0.00007	-0.00001
	B1	0.00472	0.00485	0.00494
	B1	-0.00032	-0.00032	-0.00030
	B1	0.00043	0.00044	0.00047
	B1	-0.00017	-0.00007	-0.00000
	C0	0.00450	0.00459	0.00467
	C0	-0.00052	-0.00049	-0.00049
	C0	0.00016	0.00018	0.00025
	C0	-0.00019	-0.00009	-0.00002
	C1	0.00383	0.00393	0.00404
	C1	-0.00032	-0.00032	-0.00031
	C1	0.00015	0.00017	0.00020
	C1	-0.00025	-0.00013	-0.00003

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI222X4H7H	A0	-0.00016	-0.00009	-0.00000
	A0	0.00084	0.00084	0.00085
	A0	-0.00068	-0.00068	-0.00067
	A0	0.00616	0.00623	0.00627
	A1	-0.00021	-0.00010	0.00000
	A1	0.00066	0.00067	0.00067
	A1	-0.00068	-0.00068	-0.00067
	A1	0.00568	0.00578	0.00584
	B0	-0.00080	-0.00014	-0.00008
	B0	0.00049	0.00051	0.00124
	B0	-0.00044	-0.00044	-0.00041
	B0	0.00509	0.00517	0.00522
	B1	-0.00020	-0.00009	-0.00002
	B1	0.00063	0.00067	0.00071
	B1	-0.00044	-0.00044	-0.00040
	B1	0.00467	0.00478	0.00484
	C0	-0.00019	-0.00012	-0.00006
	C0	0.00083	0.00084	0.00085
	C0	-0.00018	-0.00017	-0.00016
	C0	0.00393	0.00406	0.00414
	C1	-0.00023	-0.00012	-0.00004
	C1	0.00064	0.00067	0.00070
	C1	-0.00018	-0.00017	-0.00015
	C1	0.00344	0.00361	0.00369

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X4H7H	**(A1 * B1 * C1 * !Y)**	-0.00036	-0.00032	-0.00026
	(A1 * B1 * C1 * !Y)	-0.00008	-0.00007	-0.00007
	(A1 * B1 * C1 * !Y)	0.00000	0.00001	0.00002
	(A1 * B1 * C1 * !Y)	0.00067	0.00068	0.00070
	(A1 * B1 * C0 * !C1 * !Y)	-0.00036	-0.00032	-0.00026
	(A1 * B1 * C0 * !C1 * !Y)	-0.00008	-0.00007	-0.00007
	(A1 * B1 * C0 * !C1 * !Y)	0.00001	0.00002	0.00002
	(A1 * B1 * C0 * !C1 * !Y)	0.00067	0.00068	0.00070
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	-0.00036	-0.00033	-0.00029
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	-0.00009	-0.00008	-0.00007
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	0.00001	0.00002	0.00002
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	0.00067	0.00067	0.00067
	(A1 * B0 * !B1 * C1 * !Y)	-0.00036	-0.00032	-0.00025
	(A1 * B0 * !B1 * C1 * !Y)	-0.00008	-0.00007	-0.00007
	(A1 * B0 * !B1 * C1 * !Y)	0.00001	0.00002	0.00004
	(A1 * B0 * !B1 * C1 * !Y)	0.00067	0.00068	0.00069
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	-0.00036	-0.00032	-0.00026
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	-0.00008	-0.00007	-0.00007
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	0.00001	0.00001	0.00002
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	0.00067	0.00068	0.00071
	(A1 * !B0 * !B1 * Y)	-0.00037	-0.00033	-0.00028
	(A1 * !B0 * !B1 * Y)	-0.00007	-0.00007	-0.00007
	(A1 * !B0 * !B1 * Y)	0.00001	0.00001	0.00002
	(A1 * !B0 * !B1 * Y)	0.00067	0.00067	0.00067
	(!A1 * B1 * !C0 * !C1 * Y)	-0.00048	-0.00048	-0.00048
	(!A1 * B1 * !C0 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * B1 * !C0 * !C1 * Y)	0.00003	0.00005	0.00006
	(!A1 * B1 * !C0 * !C1 * Y)	0.00052	0.00052	0.00054
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	-0.00048	-0.00048	-0.00048
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	-0.00003	-0.00003	-0.00000
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	0.00004	0.00005	0.00006
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	0.00052	0.00053	0.00053
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00048	-0.00048	-0.00047
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00003	-0.00003	-0.00001
	(!A1 * !B0 * !B1 * C1 * Y)	0.00005	0.00006	0.00006
	(!A1 * !B0 * !B1 * C1 * Y)	0.00054	0.00054	0.00054
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	-0.00048	-0.00048	-0.00047
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	-0.00003	-0.00003	-0.00002
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	0.00005	0.00006	0.00006
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	0.00053	0.00054	0.00054
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00048	-0.00048	-0.00047
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00003	-0.00003	-0.00002
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	0.00005	0.00006	0.00006
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	0.00053	0.00053	0.00054

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X4H7H	**(A1 * B1 * C1 * !Y)**	0.00036	0.00036	0.00036
	(A1 * B1 * C1 * !Y)	0.00007	0.00007	0.00008
	(A1 * B1 * C1 * !Y)	-0.00002	-0.00001	0.00000
	(A1 * B1 * C1 * !Y)	-0.00067	-0.00067	-0.00067
	(A1 * B1 * C0 * !C1 * !Y)	0.00036	0.00036	0.00036
	(A1 * B1 * C0 * !C1 * !Y)	0.00007	0.00007	0.00008
	(A1 * B1 * C0 * !C1 * !Y)	-0.00002	-0.00001	-0.00000
	(A1 * B1 * C0 * !C1 * !Y)	-0.00068	-0.00067	-0.00067
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	0.00036	0.00036	0.00036
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	0.00007	0.00008	0.00009
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	-0.00002	-0.00001	-0.00001
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	-0.00067	-0.00067	-0.00066
	(A1 * B0 * !B1 * C1 * !Y)	0.00036	0.00036	0.00036
	(A1 * B0 * !B1 * C1 * !Y)	0.00007	0.00007	0.00008
	(A1 * B0 * !B1 * C1 * !Y)	-0.00002	-0.00001	0.00000
	(A1 * B0 * !B1 * C1 * !Y)	-0.00068	-0.00067	-0.00067
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	0.00036	0.00036	0.00036
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	0.00007	0.00007	0.00008
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	-0.00068	-0.00067	-0.00067
	(A1 * !B0 * !B1 * Y)	0.00036	0.00036	0.00037
	(A1 * !B0 * !B1 * Y)	0.00007	0.00007	0.00007
	(A1 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * Y)	-0.00067	-0.00067	-0.00066
	(!A1 * B1 * !C0 * !C1 * Y)	0.00048	0.00048	0.00048
	(!A1 * B1 * !C0 * !C1 * Y)	0.00003	0.00003	0.00004
	(!A1 * B1 * !C0 * !C1 * Y)	-0.00006	-0.00005	-0.00003
	(!A1 * B1 * !C0 * !C1 * Y)	-0.00053	-0.00048	-0.00042
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	0.00048	0.00048	0.00048
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	0.00000	0.00003	0.00003
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	-0.00006	-0.00005	-0.00004
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	-0.00053	-0.00048	-0.00042
	(!A1 * !B0 * !B1 * C1 * Y)	0.00047	0.00048	0.00048
	(!A1 * !B0 * !B1 * C1 * Y)	0.00001	0.00003	0.00004
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00006	-0.00005	-0.00005
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00054	-0.00050	-0.00043
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	0.00047	0.00048	0.00048
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	0.00002	0.00003	0.00005
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	-0.00006	-0.00006	-0.00005
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	-0.00054	-0.00050	-0.00044
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	0.00047	0.00048	0.00048
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	0.00002	0.00003	0.00003
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00006	-0.00006	-0.00005
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00054	-0.00050	-0.00044

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X4H7H	**(A0 * B1 * C1 * !Y)**	-0.00000	0.00000	0.00000
	(A0 * B1 * C1 * !Y)	-0.00010	-0.00010	-0.00010
	(A0 * B1 * C1 * !Y)	0.00001	0.00002	0.00002
	(A0 * B1 * C1 * !Y)	0.00085	0.00086	0.00087
	(A0 * B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * B1 * C0 * !C1 * !Y)	-0.00010	-0.00010	-0.00010
	(A0 * B1 * C0 * !C1 * !Y)	0.00001	0.00002	0.00002
	(A0 * B1 * C0 * !C1 * !Y)	0.00086	0.00086	0.00086
	(A0 * B1 * !C0 * !C1 * Y)	-0.00043	-0.00039	-0.00033
	(A0 * B1 * !C0 * !C1 * Y)	-0.00008	-0.00007	-0.00007
	(A0 * B1 * !C0 * !C1 * Y)	0.00001	0.00002	0.00003
	(A0 * B1 * !C0 * !C1 * Y)	0.00062	0.00062	0.00063
	(A0 * B0 * !B1 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * !B1 * C1 * !Y)	-0.00010	-0.00010	-0.00010
	(A0 * B0 * !B1 * C1 * !Y)	0.00001	0.00002	0.00002
	(A0 * B0 * !B1 * C1 * !Y)	0.00086	0.00086	0.00087
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	-0.00010	-0.00010	-0.00010
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	0.00001	0.00002	0.00002
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	0.00086	0.00086	0.00087
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00043	-0.00039	-0.00034
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00007	-0.00007	-0.00006
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00001	0.00002	0.00002
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00062	0.00062	0.00062
	(A0 * !B0 * !B1 * C1 * Y)	-0.00043	-0.00039	-0.00034
	(A0 * !B0 * !B1 * C1 * Y)	-0.00007	-0.00007	-0.00007
	(A0 * !B0 * !B1 * C1 * Y)	0.00001	0.00002	0.00002
	(A0 * !B0 * !B1 * C1 * Y)	0.00062	0.00062	0.00063
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00043	-0.00039	-0.00034
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00008	-0.00007	-0.00005
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00061	0.00062	0.00062
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00043	-0.00040	-0.00034
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00007	-0.00007	-0.00007
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00001	0.00002	0.00002
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00062	0.00062	0.00062
	(!A0 * B1 * !C0 * !C1 * Y)	-0.00054	-0.00054	-0.00054
	(!A0 * B1 * !C0 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * B1 * !C0 * !C1 * Y)	0.00004	0.00005	0.00006
	(!A0 * B1 * !C0 * !C1 * Y)	0.00047	0.00047	0.00048
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00054	-0.00054	-0.00054
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00003	-0.00003	-0.00000
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00006	0.00006	0.00008
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00048	0.00048	0.00048
	(!A0 * !B0 * !B1 * C1 * Y)	-0.00054	-0.00054	-0.00053
	(!A0 * !B0 * !B1 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !B0 * !B1 * C1 * Y)	0.00005	0.00005	0.00005
	(!A0 * !B0 * !B1 * C1 * Y)	0.00048	0.00049	0.00049
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00054	-0.00054	-0.00053
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00004	-0.00003	-0.00002
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00005	0.00005	0.00006
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00048	0.00049	0.00049
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00054	-0.00054	-0.00053
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00005	0.00006	0.00006
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00048	0.00048	0.00049

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X4H7H	**(A0 * B1 * C1 * !Y)**	-0.00000	-0.00000	0.00000
	(A0 * B1 * C1 * !Y)	0.00010	0.00011	0.00011
	(A0 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * C1 * !Y)	-0.00086	-0.00086	-0.00084
	(A0 * B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !C1 * !Y)	0.00011	0.00011	0.00011
	(A0 * B1 * C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * B1 * C0 * !C1 * !Y)	-0.00086	-0.00086	-0.00085
	(A0 * B1 * !C0 * !C1 * Y)	0.00042	0.00043	0.00043
	(A0 * B1 * !C0 * !C1 * Y)	0.00007	0.00007	0.00008
	(A0 * B1 * !C0 * !C1 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * B1 * !C0 * !C1 * Y)	-0.00062	-0.00062	-0.00061
	(A0 * B0 * !B1 * C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C1 * !Y)	0.00010	0.00011	0.00011
	(A0 * B0 * !B1 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * B0 * !B1 * C1 * !Y)	-0.00086	-0.00086	-0.00086
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	0.00010	0.00011	0.00011
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	-0.00086	-0.00086	-0.00085
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00043	0.00043	0.00043
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00006	0.00007	0.00007
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00002	-0.00001	-0.00001
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00062	-0.00061	-0.00061
	(A0 * !B0 * !B1 * C1 * Y)	0.00043	0.00043	0.00043
	(A0 * !B0 * !B1 * C1 * Y)	0.00007	0.00007	0.00007
	(A0 * !B0 * !B1 * C1 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * !B0 * !B1 * C1 * Y)	-0.00062	-0.00062	-0.00061
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00043	0.00043	0.00043
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00005	0.00007	0.00008
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00062	-0.00061	-0.00061
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00043	0.00043	0.00043
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00007	0.00007	0.00007
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00002	-0.00001	-0.00001
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00062	-0.00061	-0.00060
	(!A0 * B1 * !C0 * !C1 * Y)	0.00054	0.00054	0.00054
	(!A0 * B1 * !C0 * !C1 * Y)	0.00003	0.00003	0.00004
	(!A0 * B1 * !C0 * !C1 * Y)	-0.00006	-0.00005	-0.00004
	(!A0 * B1 * !C0 * !C1 * Y)	-0.00048	-0.00043	-0.00038
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00054	0.00054	0.00054
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00008	-0.00006	-0.00005
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00048	-0.00043	-0.00037
	(!A0 * !B0 * !B1 * C1 * Y)	0.00053	0.00054	0.00054
	(!A0 * !B0 * !B1 * C1 * Y)	0.00003	0.00003	0.00004
	(!A0 * !B0 * !B1 * C1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !B0 * !B1 * C1 * Y)	-0.00049	-0.00045	-0.00039
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00053	0.00054	0.00054
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00002	0.00003	0.00004
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00006	-0.00005	-0.00005
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00049	-0.00045	-0.00039
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00053	0.00054	0.00054
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00048	-0.00045	-0.00038

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X4H7H	**(A1 * B1 * C1 * !Y)**	-0.00034	-0.00030	-0.00024
	(A1 * B1 * C1 * !Y)	-0.00007	-0.00007	-0.00007
	(A1 * B1 * C1 * !Y)	0.00001	0.00001	0.00002
	(A1 * B1 * C1 * !Y)	0.00072	0.00073	0.00074
	(A1 * B1 * C0 * !C1 * !Y)	-0.00034	-0.00030	-0.00024
	(A1 * B1 * C0 * !C1 * !Y)	-0.00007	-0.00007	-0.00007
	(A1 * B1 * C0 * !C1 * !Y)	0.00001	0.00002	0.00002
	(A1 * B1 * C0 * !C1 * !Y)	0.00073	0.00073	0.00074
	(A1 * !B1 * !C0 * !C1 * Y)	-0.00050	-0.00049	-0.00049
	(A1 * !B1 * !C0 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * !B1 * !C0 * !C1 * Y)	0.00005	0.00005	0.00005
	(A1 * !B1 * !C0 * !C1 * Y)	0.00056	0.00056	0.00057
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	-0.00040	-0.00037	-0.00031
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	-0.00007	-0.00007	-0.00006
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	0.00001	0.00002	0.00002
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	0.00067	0.00067	0.00067
	(A0 * !A1 * B1 * C1 * !Y)	-0.00034	-0.00031	-0.00025
	(A0 * !A1 * B1 * C1 * !Y)	-0.00007	-0.00007	-0.00007
	(A0 * !A1 * B1 * C1 * !Y)	0.00001	0.00002	0.00002
	(A0 * !A1 * B1 * C1 * !Y)	0.00072	0.00073	0.00074
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00034	-0.00030	-0.00024
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00007	-0.00007	-0.00007
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00001	0.00001	0.00002
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00072	0.00073	0.00074
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00050	-0.00049	-0.00049
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00005	0.00005	0.00005
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00056	0.00056	0.00057
	(!A0 * !A1 * B1 * C1 * Y)	-0.00042	-0.00038	-0.00034
	(!A0 * !A1 * B1 * C1 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * B1 * C1 * Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * B1 * C1 * Y)	0.00016	0.00017	0.00017
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00042	-0.00039	-0.00034
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00007	-0.00007	-0.00006
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	0.00016	0.00017	0.00017
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	-0.00042	-0.00039	-0.00034
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	-0.00007	-0.00007	-0.00006
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	0.00016	0.00016	0.00016
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	0.00016	0.00016	0.00017
	(!A0 * !A1 * !B1 * C1 * Y)	-0.00051	-0.00050	-0.00050
	(!A0 * !A1 * !B1 * C1 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * !B1 * C1 * Y)	0.00014	0.00014	0.00014
	(!A0 * !A1 * !B1 * C1 * Y)	0.00015	0.00015	0.00016
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	-0.00051	-0.00050	-0.00050
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	-0.00004	-0.00003	-0.00001
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	0.00014	0.00014	0.00014
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	0.00015	0.00015	0.00016
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00051	-0.00051	-0.00050
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00017	0.00017	0.00017
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00015	0.00016	0.00016

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X4H7H	**(A1 * B1 * C1 * !Y)**	0.00034	0.00034	0.00034
	(A1 * B1 * C1 * !Y)	0.00007	0.00007	0.00007
	(A1 * B1 * C1 * !Y)	-0.00002	-0.00001	-0.00001
	(A1 * B1 * C1 * !Y)	-0.00073	-0.00072	-0.00072
	(A1 * B1 * C0 * !C1 * !Y)	0.00033	0.00034	0.00034
	(A1 * B1 * C0 * !C1 * !Y)	0.00007	0.00007	0.00007
	(A1 * B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * C0 * !C1 * !Y)	-0.00073	-0.00072	-0.00072
	(A1 * !B1 * !C0 * !C1 * Y)	0.00050	0.00050	0.00050
	(A1 * !B1 * !C0 * !C1 * Y)	0.00003	0.00003	0.00005
	(A1 * !B1 * !C0 * !C1 * Y)	-0.00005	-0.00005	-0.00005
	(A1 * !B1 * !C0 * !C1 * Y)	-0.00057	-0.00053	-0.00046
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	0.00040	0.00040	0.00040
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	0.00007	0.00007	0.00007
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	-0.00002	-0.00001	-0.00001
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	-0.00067	-0.00067	-0.00067
	(A0 * !A1 * B1 * C1 * !Y)	0.00034	0.00034	0.00035
	(A0 * !A1 * B1 * C1 * !Y)	0.00007	0.00007	0.00007
	(A0 * !A1 * B1 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * !A1 * B1 * C1 * !Y)	-0.00073	-0.00072	-0.00072
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00034	0.00034	0.00035
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00007	0.00007	0.00007
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00002	-0.00001	-0.00001
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00072	-0.00072	-0.00072
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00050	0.00050	0.00050
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00002	0.00003	0.00005
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00005	-0.00005	-0.00005
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00057	-0.00052	-0.00045
	(!A0 * !A1 * B1 * C1 * Y)	0.00042	0.00042	0.00042
	(!A0 * !A1 * B1 * C1 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * B1 * C1 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A1 * B1 * C1 * Y)	-0.00017	-0.00016	-0.00016
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	0.00042	0.00042	0.00042
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	0.00007	0.00007	0.00008
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	0.00042	0.00042	0.00042
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	-0.00017	-0.00016	-0.00016
	(!A0 * !A1 * !B1 * C1 * Y)	0.00050	0.00051	0.00051
	(!A0 * !A1 * !B1 * C1 * Y)	0.00002	0.00003	0.00005
	(!A0 * !A1 * !B1 * C1 * Y)	-0.00014	-0.00014	-0.00013
	(!A0 * !A1 * !B1 * C1 * Y)	-0.00016	-0.00015	-0.00015
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	0.00050	0.00051	0.00051
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	0.00002	0.00003	0.00005
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	-0.00014	-0.00014	-0.00013
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	-0.00016	-0.00015	-0.00015
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00050	0.00051	0.00051
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00016	-0.00016	-0.00015

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X4H7H	**(A1 * B0 * C1 * !Y)**	-0.00000	-0.00000	0.00000
	(A1 * B0 * C1 * !Y)	-0.00010	-0.00010	-0.00010
	(A1 * B0 * C1 * !Y)	0.00001	0.00002	0.00002
	(A1 * B0 * C1 * !Y)	0.00086	0.00087	0.00087
	(A1 * B0 * C0 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !C1 * !Y)	-0.00010	-0.00010	-0.00010
	(A1 * B0 * C0 * !C1 * !Y)	0.00001	0.00002	0.00002
	(A1 * B0 * C0 * !C1 * !Y)	0.00086	0.00086	0.00087
	(A1 * B0 * !C0 * !C1 * Y)	-0.00046	-0.00042	-0.00036
	(A1 * B0 * !C0 * !C1 * Y)	-0.00007	-0.00007	-0.00005
	(A1 * B0 * !C0 * !C1 * Y)	0.00001	0.00001	0.00002
	(A1 * B0 * !C0 * !C1 * Y)	0.00059	0.00059	0.00060
	(A1 * !B0 * !C0 * !C1 * Y)	-0.00056	-0.00056	-0.00055
	(A1 * !B0 * !C0 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * !C0 * !C1 * Y)	0.00004	0.00005	0.00005
	(A1 * !B0 * !C0 * !C1 * Y)	0.00048	0.00049	0.00049
	(A0 * !A1 * B0 * C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C1 * !Y)	-0.00010	-0.00010	-0.00010
	(A0 * !A1 * B0 * C1 * !Y)	0.00001	0.00002	0.00002
	(A0 * !A1 * B0 * C1 * !Y)	0.00086	0.00086	0.00087
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00010	-0.00010	-0.00010
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00001	0.00002	0.00002
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00086	0.00086	0.00087
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00046	-0.00042	-0.00037
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00008	-0.00006	-0.00005
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00059	0.00059	0.00059
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00056	-0.00056	-0.00055
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00005	-0.00003	-0.00003
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00004	0.00005	0.00005
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00048	0.00049	0.00049
	(!A0 * !A1 * B0 * C1 * Y)	-0.00047	-0.00043	-0.00038
	(!A0 * !A1 * B0 * C1 * Y)	-0.00007	-0.00007	-0.00006
	(!A0 * !A1 * B0 * C1 * Y)	0.00012	0.00013	0.00013
	(!A0 * !A1 * B0 * C1 * Y)	0.00010	0.00011	0.00011
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00048	-0.00044	-0.00039
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00008	-0.00007	-0.00006
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	0.00010	0.00011	0.00011
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00048	-0.00045	-0.00039
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00007	-0.00007	-0.00006
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00015	0.00016	0.00016
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00010	0.00011	0.00011
	(!A0 * !A1 * !B0 * C1 * Y)	-0.00057	-0.00057	-0.00056
	(!A0 * !A1 * !B0 * C1 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * !B0 * C1 * Y)	0.00013	0.00014	0.00014
	(!A0 * !A1 * !B0 * C1 * Y)	0.00009	0.00010	0.00010
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	-0.00057	-0.00057	-0.00057
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	-0.00003	-0.00003	-0.00000
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	0.00014	0.00014	0.00014
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	0.00009	0.00010	0.00010
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00058	-0.00057	-0.00056
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00003	-0.00003	-0.00001
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00016	0.00016	0.00016
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00009	0.00010	0.00010

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X4H7H	**(A1 * B0 * C1 * !Y)**	-0.00000	0.00000	0.00000
	(A1 * B0 * C1 * !Y)	0.00011	0.00011	0.00011
	(A1 * B0 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * B0 * C1 * !Y)	-0.00087	-0.00086	-0.00086
	(A1 * B0 * C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * C0 * !C1 * !Y)	0.00010	0.00011	0.00011
	(A1 * B0 * C0 * !C1 * !Y)	-0.00002	-0.00001	-0.00001
	(A1 * B0 * C0 * !C1 * !Y)	-0.00087	-0.00086	-0.00085
	(A1 * B0 * !C0 * !C1 * Y)	0.00045	0.00045	0.00046
	(A1 * B0 * !C0 * !C1 * Y)	0.00006	0.00007	0.00007
	(A1 * B0 * !C0 * !C1 * Y)	-0.00002	-0.00001	-0.00001
	(A1 * B0 * !C0 * !C1 * Y)	-0.00059	-0.00059	-0.00058
	(A1 * !B0 * !C0 * !C1 * Y)	0.00056	0.00056	0.00057
	(A1 * !B0 * !C0 * !C1 * Y)	0.00003	0.00003	0.00004
	(A1 * !B0 * !C0 * !C1 * Y)	-0.00005	-0.00005	-0.00004
	(A1 * !B0 * !C0 * !C1 * Y)	-0.00049	-0.00046	-0.00040
	(A0 * !A1 * B0 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * B0 * C1 * !Y)	0.00010	0.00011	0.00011
	(A0 * !A1 * B0 * C1 * !Y)	-0.00002	-0.00001	-0.00001
	(A0 * !A1 * B0 * C1 * !Y)	-0.00087	-0.00086	-0.00085
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00010	0.00011	0.00011
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00087	-0.00086	-0.00085
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00046	0.00046	0.00046
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00006	0.00007	0.00008
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00002	-0.00001	-0.00001
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00059	-0.00059	-0.00058
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00056	0.00056	0.00057
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00003	0.00003	0.00005
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00005	-0.00005	-0.00004
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00049	-0.00045	-0.00039
	(!A0 * !A1 * B0 * C1 * Y)	0.00047	0.00047	0.00048
	(!A0 * !A1 * B0 * C1 * Y)	0.00006	0.00007	0.00007
	(!A0 * !A1 * B0 * C1 * Y)	-0.00013	-0.00013	-0.00012
	(!A0 * !A1 * B0 * C1 * Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	0.00048	0.00048	0.00048
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	0.00006	0.00007	0.00008
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00011	-0.00010	-0.00010
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00048	0.00048	0.00048
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00016	-0.00016	-0.00015
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00011	-0.00011	-0.00010
	(!A0 * !A1 * !B0 * C1 * Y)	0.00057	0.00057	0.00057
	(!A0 * !A1 * !B0 * C1 * Y)	0.00003	0.00003	0.00004
	(!A0 * !A1 * !B0 * C1 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A1 * !B0 * C1 * Y)	-0.00010	-0.00009	-0.00009
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	0.00057	0.00057	0.00057
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	0.00003	0.00003	0.00005
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	-0.00010	-0.00010	-0.00009
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00057	0.00057	0.00058
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00010	-0.00010	-0.00009

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X4H7H	**(A1 * B1 * C1 * !Y)**	-0.00036	-0.00032	-0.00025
	(A1 * B1 * C1 * !Y)	-0.00008	-0.00007	-0.00007
	(A1 * B1 * C1 * !Y)	0.00001	0.00002	0.00002
	(A1 * B1 * C1 * !Y)	0.00067	0.00067	0.00068
	(A1 * B0 * !B1 * C1 * !Y)	-0.00036	-0.00032	-0.00025
	(A1 * B0 * !B1 * C1 * !Y)	-0.00007	-0.00007	-0.00007
	(A1 * B0 * !B1 * C1 * !Y)	0.00001	0.00002	0.00002
	(A1 * B0 * !B1 * C1 * !Y)	0.00067	0.00067	0.00068
	(A1 * !B0 * !B1 * C1 * Y)	-0.00059	-0.00056	-0.00050
	(A1 * !B0 * !B1 * C1 * Y)	-0.00007	-0.00007	-0.00007
	(A1 * !B0 * !B1 * C1 * Y)	0.00007	0.00008	0.00008
	(A1 * !B0 * !B1 * C1 * Y)	0.00016	0.00016	0.00017
	(A1 * !B0 * !B1 * !C1 * Y)	-0.00070	-0.00069	-0.00068
	(A1 * !B0 * !B1 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * !B1 * !C1 * Y)	0.00008	0.00008	0.00008
	(A1 * !B0 * !B1 * !C1 * Y)	0.00015	0.00015	0.00015
	(A0 * !A1 * B1 * C1 * !Y)	-0.00036	-0.00032	-0.00026
	(A0 * !A1 * B1 * C1 * !Y)	-0.00007	-0.00007	-0.00007
	(A0 * !A1 * B1 * C1 * !Y)	0.00001	0.00002	0.00002
	(A0 * !A1 * B1 * C1 * !Y)	0.00066	0.00067	0.00069
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00036	-0.00032	-0.00025
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00008	-0.00007	-0.00007
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00001	0.00002	0.00002
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00066	0.00067	0.00068
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00059	-0.00056	-0.00050
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00007	-0.00007	-0.00005
	(!A1 * !B0 * !B1 * C1 * Y)	0.00007	0.00007	0.00008
	(!A1 * !B0 * !B1 * C1 * Y)	0.00016	0.00016	0.00017
	(!A1 * !B0 * !B1 * !C1 * Y)	-0.00069	-0.00069	-0.00068
	(!A1 * !B0 * !B1 * !C1 * Y)	-0.00003	-0.00003	-0.00002
	(!A1 * !B0 * !B1 * !C1 * Y)	0.00008	0.00008	0.00009
	(!A1 * !B0 * !B1 * !C1 * Y)	0.00015	0.00015	0.00016
	(!A0 * !A1 * B1 * C1 * Y)	-0.00059	-0.00055	-0.00050
	(!A0 * !A1 * B1 * C1 * Y)	-0.00008	-0.00007	-0.00007
	(!A0 * !A1 * B1 * C1 * Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * B1 * C1 * Y)	0.00015	0.00015	0.00016
	(!A0 * !A1 * B1 * !C1 * Y)	-0.00069	-0.00068	-0.00068
	(!A0 * !A1 * B1 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B1 * !C1 * Y)	0.00008	0.00009	0.00009
	(!A0 * !A1 * B1 * !C1 * Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00059	-0.00056	-0.00050
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	0.00015	0.00015	0.00016
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	-0.00069	-0.00068	-0.00065
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	0.00008	0.00009	0.00009
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	0.00013	0.00013	0.00014

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X4H7H	**(A1 * B1 * C1 * !Y)**	0.00035	0.00036	0.00036
	(A1 * B1 * C1 * !Y)	0.00007	0.00007	0.00008
	(A1 * B1 * C1 * !Y)	-0.00002	-0.00001	-0.00001
	(A1 * B1 * C1 * !Y)	-0.00067	-0.00066	-0.00066
	(A1 * B0 * !B1 * C1 * !Y)	0.00035	0.00035	0.00036
	(A1 * B0 * !B1 * C1 * !Y)	0.00007	0.00007	0.00007
	(A1 * B0 * !B1 * C1 * !Y)	-0.00002	-0.00001	-0.00001
	(A1 * B0 * !B1 * C1 * !Y)	-0.00067	-0.00066	-0.00066
	(A1 * !B0 * !B1 * C1 * Y)	0.00058	0.00059	0.00059
	(A1 * !B0 * !B1 * C1 * Y)	0.00007	0.00007	0.00007
	(A1 * !B0 * !B1 * C1 * Y)	-0.00008	-0.00007	-0.00007
	(A1 * !B0 * !B1 * C1 * Y)	-0.00016	-0.00016	-0.00016
	(A1 * !B0 * !B1 * !C1 * Y)	0.00069	0.00069	0.00070
	(A1 * !B0 * !B1 * !C1 * Y)	0.00003	0.00003	0.00003
	(A1 * !B0 * !B1 * !C1 * Y)	-0.00008	-0.00008	-0.00008
	(A1 * !B0 * !B1 * !C1 * Y)	-0.00015	-0.00015	-0.00015
	(A0 * !A1 * B1 * C1 * !Y)	0.00035	0.00035	0.00036
	(A0 * !A1 * B1 * C1 * !Y)	0.00007	0.00007	0.00007
	(A0 * !A1 * B1 * C1 * !Y)	-0.00002	-0.00001	-0.00001
	(A0 * !A1 * B1 * C1 * !Y)	-0.00067	-0.00066	-0.00066
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00035	0.00036	0.00036
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00007	0.00007	0.00008
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00002	-0.00001	-0.00001
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00067	-0.00066	-0.00066
	(!A1 * !B0 * !B1 * C1 * Y)	0.00058	0.00059	0.00059
	(!A1 * !B0 * !B1 * C1 * Y)	0.00005	0.00007	0.00007
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00008	-0.00007	-0.00007
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00016	-0.00016	-0.00016
	(!A1 * !B0 * !B1 * !C1 * Y)	0.00069	0.00069	0.00070
	(!A1 * !B0 * !B1 * !C1 * Y)	0.00002	0.00003	0.00003
	(!A1 * !B0 * !B1 * !C1 * Y)	-0.00008	-0.00008	-0.00008
	(!A1 * !B0 * !B1 * !C1 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !A1 * B1 * C1 * Y)	0.00058	0.00059	0.00059
	(!A0 * !A1 * B1 * C1 * Y)	0.00007	0.00007	0.00008
	(!A0 * !A1 * B1 * C1 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * B1 * C1 * Y)	-0.00015	-0.00015	-0.00014
	(!A0 * !A1 * B1 * !C1 * Y)	0.00069	0.00069	0.00070
	(!A0 * !A1 * B1 * !C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B1 * !C1 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * B1 * !C1 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	0.00058	0.00059	0.00059
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00015	-0.00015	-0.00014
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	0.00069	0.00069	0.00070
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	-0.00013	-0.00013	-0.00013

Passive power(pJ) for C1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X4H7H	**(A1 * B1 * C0 * !Y)**	-0.00000	-0.00000	0.00000
	(A1 * B1 * C0 * !Y)	-0.00011	-0.00010	-0.00010
	(A1 * B1 * C0 * !Y)	0.00001	0.00002	0.00002
	(A1 * B1 * C0 * !Y)	0.00085	0.00085	0.00086
	(A1 * B0 * !B1 * C0 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C0 * !Y)	-0.00010	-0.00010	-0.00010
	(A1 * B0 * !B1 * C0 * !Y)	0.00001	0.00002	0.00002
	(A1 * B0 * !B1 * C0 * !Y)	0.00085	0.00085	0.00086
	(A1 * !B0 * !B1 * C0 * Y)	-0.00068	-0.00063	-0.00057
	(A1 * !B0 * !B1 * C0 * Y)	-0.00007	-0.00007	-0.00007
	(A1 * !B0 * !B1 * C0 * Y)	0.00007	0.00007	0.00007
	(A1 * !B0 * !B1 * C0 * Y)	0.00010	0.00011	0.00012
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00078	-0.00077	-0.00076
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * !B1 * !C0 * Y)	0.00008	0.00008	0.00008
	(A1 * !B0 * !B1 * !C0 * Y)	0.00009	0.00009	0.00009
	(A0 * !A1 * B1 * C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C0 * !Y)	-0.00010	-0.00010	-0.00010
	(A0 * !A1 * B1 * C0 * !Y)	0.00001	0.00002	0.00002
	(A0 * !A1 * B1 * C0 * !Y)	0.00085	0.00085	0.00086
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00011	-0.00010	-0.00010
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00085	0.00085	0.00086
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00068	-0.00064	-0.00058
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00009	-0.00007	-0.00007
	(!A1 * !B0 * !B1 * C0 * Y)	0.00007	0.00007	0.00007
	(!A1 * !B0 * !B1 * C0 * Y)	0.00010	0.00011	0.00011
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00078	-0.00077	-0.00076
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00005	-0.00003	-0.00003
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00008	0.00008	0.00008
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00009	0.00009	0.00010
	(!A0 * !A1 * B1 * C0 * Y)	-0.00068	-0.00063	-0.00057
	(!A0 * !A1 * B1 * C0 * Y)	-0.00008	-0.00007	-0.00007
	(!A0 * !A1 * B1 * C0 * Y)	0.00007	0.00007	0.00008
	(!A0 * !A1 * B1 * C0 * Y)	0.00009	0.00010	0.00010
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00078	-0.00077	-0.00076
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B1 * !C0 * Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * B1 * !C0 * Y)	0.00007	0.00008	0.00008
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00068	-0.00064	-0.00058
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00009	-0.00007	-0.00006
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	0.00007	0.00007	0.00008
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	0.00009	0.00010	0.00011
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	-0.00078	-0.00077	-0.00077
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	0.00008	0.00008	0.00008

Passive power(pJ) for C1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

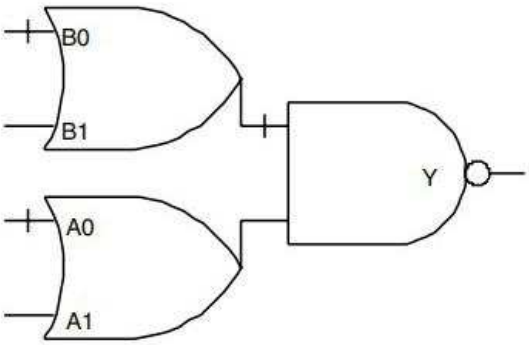
OAI222X4H7H	**(A1 * B1 * C0 * !Y)**	-0.00000	0.00000	0.00000
	(A1 * B1 * C0 * !Y)	0.00011	0.00011	0.00011
	(A1 * B1 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * B1 * C0 * !Y)	-0.00086	-0.00085	-0.00085
	(A1 * B0 * !B1 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !B1 * C0 * !Y)	0.00010	0.00011	0.00011
	(A1 * B0 * !B1 * C0 * !Y)	-0.00002	-0.00001	-0.00001
	(A1 * B0 * !B1 * C0 * !Y)	-0.00086	-0.00085	-0.00084
	(A1 * !B0 * !B1 * C0 * Y)	0.00067	0.00068	0.00068
	(A1 * !B0 * !B1 * C0 * Y)	0.00007	0.00007	0.00007
	(A1 * !B0 * !B1 * C0 * Y)	-0.00007	-0.00007	-0.00007
	(A1 * !B0 * !B1 * C0 * Y)	-0.00010	-0.00010	-0.00010
	(A1 * !B0 * !B1 * !C0 * Y)	0.00077	0.00078	0.00078
	(A1 * !B0 * !B1 * !C0 * Y)	0.00003	0.00003	0.00003
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00008	-0.00007	-0.00007
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00009	-0.00009	-0.00009
	(A0 * !A1 * B1 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * B1 * C0 * !Y)	0.00010	0.00011	0.00011
	(A0 * !A1 * B1 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * !A1 * B1 * C0 * !Y)	-0.00086	-0.00085	-0.00084
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00011	0.00011	0.00011
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00086	-0.00085	-0.00085
	(!A1 * !B0 * !B1 * C0 * Y)	0.00067	0.00068	0.00068
	(!A1 * !B0 * !B1 * C0 * Y)	0.00007	0.00007	0.00009
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00007	-0.00007	-0.00007
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00010	-0.00010	-0.00010
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00077	0.00078	0.00078
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00003	0.00003	0.00005
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00007	-0.00007	-0.00007
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * B1 * C0 * Y)	0.00067	0.00067	0.00068
	(!A0 * !A1 * B1 * C0 * Y)	0.00007	0.00007	0.00008
	(!A0 * !A1 * B1 * C0 * Y)	-0.00008	-0.00007	-0.00007
	(!A0 * !A1 * B1 * C0 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * B1 * !C0 * Y)	0.00077	0.00078	0.00078
	(!A0 * !A1 * B1 * !C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00008	-0.00008	-0.00007
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	0.00067	0.00068	0.00068
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	0.00006	0.00007	0.00009
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00008	-0.00007	-0.00007
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	0.00077	0.00078	0.00078
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	0.00003	0.00003	0.00005
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	-0.00008	-0.00008	-0.00008

OAI22X0P5H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI22 cell provides the logical inverted AND of two OR groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	Y
0	0	x	x	1
x	1	0	0	1
x	1	x	1	0
x	1	1	x	0
1	x	0	0	1
1	x	x	1	0
1	x	1	x	0

Footprint

Cell Name	Area
OAI22X0P5H7H	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	**A1**	**B0**	**B1**	**Y**
OAI22X0P5H7H	0.00077	0.00086	0.00082	0.00090	0.01456

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
OAI22X0P5H7H	0.00000	0.01062	0.01583

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI22X0P5H7H	A0->Y (FR)	0.07431	0.24908	0.74201
	A1->Y (FR)	0.07211	0.24326	0.73579
	B0->Y (FR)	0.05524	0.22536	0.72149
	B1->Y (FR)	0.05248	0.21875	0.71281

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI22X0P5H7H	A0->Y (RF)	0.04942	0.18247	0.57138
	A1->Y (RF)	0.04743	0.17910	0.56752
	B0->Y (RF)	0.04071	0.16916	0.57211
	B1->Y (RF)	0.03850	0.16539	0.56952

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI22X0P5H7H	A0	0.00134	0.00138	0.00140
	A0	-0.00010	-0.00010	-0.00009
	A0	0.00012	0.00012	0.00012
	A0	-0.00011	-0.00008	-0.00006
	A1	0.00122	0.00126	0.00129
	A1	-0.00005	-0.00005	-0.00005
	A1	0.00012	0.00012	0.00012
	A1	-0.00006	-0.00003	-0.00000
	B0	0.00102	0.00106	0.00109
	B0	-0.00010	-0.00010	-0.00009
	B0	0.00004	0.00005	0.00005
	B0	-0.00013	-0.00010	-0.00007
	B1	0.00089	0.00093	0.00097
	B1	-0.00005	-0.00005	-0.00005
	B1	0.00003	0.00005	0.00005
	B1	-0.00010	-0.00006	-0.00002

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI22X0P5H7H	A0	-0.00007	-0.00006	-0.00005
	A0	0.00014	0.00014	0.00014
	A0	-0.00012	-0.00012	-0.00011
	A0	0.00140	0.00142	0.00143
	A1	-0.00009	-0.00006	-0.00004
	A1	0.00009	0.00010	0.00010
	A1	-0.00012	-0.00012	-0.00011
	A1	0.00125	0.00127	0.00129
	B0	-0.00010	-0.00008	-0.00006
	B0	0.00014	0.00014	0.00014
	B0	-0.00005	-0.00005	-0.00004
	B0	0.00099	0.00103	0.00105
	B1	-0.00010	-0.00007	-0.00004
	B1	0.00009	0.00010	0.00010
	B1	-0.00005	-0.00005	-0.00003
	B1	0.00087	0.00090	0.00093

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X0P5H7H	(A1 * B1 * !Y)	-0.00009	-0.00008	-0.00007
	(A1 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B1 * !Y)	0.00000	0.00000	0.00001
	(A1 * B1 * !Y)	0.00030	0.00030	0.00031
	(A1 * B0 * !B1 * !Y)	-0.00009	-0.00008	-0.00007
	(A1 * B0 * !B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * !Y)	0.00030	0.00031	0.00031
	(A1 * !B0 * !B1 * Y)	-0.00009	-0.00008	-0.00007
	(A1 * !B0 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * Y)	0.00030	0.00030	0.00031
	(!A1 * !B0 * !B1 * Y)	-0.00011	-0.00011	-0.00011
	(!A1 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * Y)	0.00026	0.00026	0.00026

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X0P5H7H	(A1 * B1 * !Y)	0.00009	0.00009	0.00009
	(A1 * B1 * !Y)	0.00002	0.00002	0.00002
	(A1 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * !Y)	-0.00030	-0.00030	-0.00030
	(A1 * B0 * !B1 * !Y)	0.00009	0.00009	0.00009
	(A1 * B0 * !B1 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !B1 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !B1 * !Y)	-0.00031	-0.00030	-0.00030
	(A1 * !B0 * !B1 * Y)	0.00009	0.00009	0.00009
	(A1 * !B0 * !B1 * Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * Y)	-0.00030	-0.00030	-0.00030
	(!A1 * !B0 * !B1 * Y)	0.00011	0.00011	0.00011
	(!A1 * !B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * Y)	-0.00026	-0.00025	-0.00023

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X0P5H7H	(A0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B1 * !Y)	0.00031	0.00031	0.00031
	(A0 * B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * !Y)	0.00031	0.00031	0.00031
	(A0 * !B0 * !B1 * Y)	-0.00012	-0.00012	-0.00010
	(A0 * !B0 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !B1 * Y)	0.00023	0.00024	0.00024
	(!A0 * !B0 * !B1 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * Y)	0.00019	0.00019	0.00019

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X0P5H7H	(A0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B1 * !Y)	0.00003	0.00003	0.00003
	(A0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * !Y)	-0.00031	-0.00031	-0.00030
	(A0 * B0 * !B1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * !Y)	0.00003	0.00003	0.00003
	(A0 * B0 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !B1 * !Y)	-0.00031	-0.00031	-0.00030
	(A0 * !B0 * !B1 * Y)	0.00012	0.00012	0.00012
	(A0 * !B0 * !B1 * Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !B1 * Y)	-0.00024	-0.00024	-0.00023
	(!A0 * !B0 * !B1 * Y)	0.00015	0.00015	0.00015
	(!A0 * !B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * Y)	-0.00019	-0.00018	-0.00016

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X0P5H7H	(A1 * B1 * !Y)	-0.00009	-0.00008	-0.00007
	(A1 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B1 * !Y)	0.00031	0.00031	0.00031
	(A0 * !A1 * B1 * !Y)	-0.00009	-0.00008	-0.00007
	(A0 * !A1 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * !Y)	0.00031	0.00031	0.00031
	(!A0 * !A1 * B1 * Y)	-0.00020	-0.00020	-0.00018
	(!A0 * !A1 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * Y)	0.00010	0.00010	0.00010
	(!A0 * !A1 * !B1 * Y)	-0.00022	-0.00022	-0.00022
	(!A0 * !A1 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !B1 * Y)	0.00010	0.00010	0.00010

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X0P5H7H	(A1 * B1 * !Y)	0.00009	0.00009	0.00009
	(A1 * B1 * !Y)	0.00002	0.00002	0.00002
	(A1 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * !Y)	-0.00031	-0.00030	-0.00030
	(A0 * !A1 * B1 * !Y)	0.00009	0.00009	0.00009
	(A0 * !A1 * B1 * !Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * !Y)	-0.00031	-0.00030	-0.00030
	(!A0 * !A1 * B1 * Y)	0.00020	0.00020	0.00020
	(!A0 * !A1 * B1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !A1 * !B1 * Y)	0.00022	0.00022	0.00022
	(!A0 * !A1 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !B1 * Y)	-0.00010	-0.00010	-0.00010

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X0P5H7H	(A1 * B0 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !Y)	0.00032	0.00033	0.00033
	(A0 * !A1 * B0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !Y)	0.00032	0.00033	0.00033
	(!A0 * !A1 * B0 * Y)	-0.00023	-0.00022	-0.00021
	(!A0 * !A1 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !B0 * Y)	-0.00025	-0.00025	-0.00024
	(!A0 * !A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !B0 * Y)	0.00005	0.00005	0.00005

Passive power(pJ) for B1 falling (conditional):

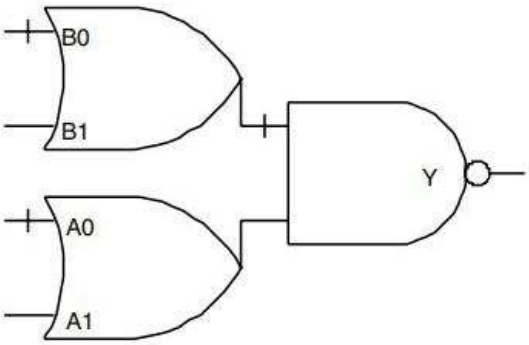
Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X0P5H7H	(A1 * B0 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * !Y)	0.00003	0.00003	0.00003
	(A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !Y)	-0.00033	-0.00033	-0.00032
	(A0 * !A1 * B0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * B0 * !Y)	0.00003	0.00003	0.00003
	(A0 * !A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * !Y)	-0.00033	-0.00033	-0.00032
	(!A0 * !A1 * B0 * Y)	0.00023	0.00023	0.00023
	(!A0 * !A1 * B0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !B0 * Y)	0.00025	0.00025	0.00025
	(!A0 * !A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !B0 * Y)	-0.00005	-0.00005	-0.00005

OAI22X0P7H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI22 cell provides the logical inverted AND of two OR groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	Y
0	0	x	x	1
x	1	0	0	1
x	1	x	1	0
x	1	1	x	0
1	x	0	0	1
1	x	x	1	0
1	x	1	x	0

Footprint

Cell Name	Area
OAI22X0P7H7H	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	**A1**	**B0**	**B1**	**Y**
OAI22X0P7H7H	0.00083	0.00093	0.00086	0.00096	0.01664

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
OAI22X0P7H7H	0.00000	0.01203	0.01499

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI22X0P7H7H	A0->Y (FR)	0.06949	0.24553	0.74452
	A1->Y (FR)	0.06689	0.23908	0.73569
	B0->Y (FR)	0.05116	0.22240	0.72247
	B1->Y (FR)	0.04838	0.21563	0.71421

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI22X0P7H7H	A0->Y (RF)	0.04752	0.18334	0.58121
	A1->Y (RF)	0.04513	0.17962	0.57818
	B0->Y (RF)	0.03868	0.16876	0.57827
	B1->Y (RF)	0.03624	0.16481	0.57532

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI22X0P7H7H	A0	0.00147	0.00150	0.00153
	A0	-0.00011	-0.00011	-0.00011
	A0	0.00014	0.00014	0.00014
	A0	-0.00011	-0.00008	-0.00006
	A1	0.00131	0.00136	0.00139
	A1	-0.00006	-0.00006	-0.00005
	A1	0.00014	0.00014	0.00014
	A1	-0.00006	-0.00003	-0.00000
	B0	0.00110	0.00114	0.00118
	B0	-0.00011	-0.00011	-0.00011
	B0	0.00005	0.00005	0.00006
	B0	-0.00015	-0.00011	-0.00007
	B1	0.00096	0.00100	0.00104
	B1	-0.00006	-0.00006	-0.00005
	B1	0.00005	0.00005	0.00005
	B1	-0.00011	-0.00006	-0.00002

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI22X0P7H7H	A0	-0.00009	-0.00007	-0.00006
	A0	0.00016	0.00016	0.00016
	A0	-0.00013	-0.00013	-0.00013
	A0	0.00152	0.00154	0.00156
	A1	-0.00010	-0.00007	-0.00005
	A1	0.00011	0.00011	0.00011
	A1	-0.00013	-0.00013	-0.00013
	A1	0.00135	0.00138	0.00140
	B0	-0.00011	-0.00009	-0.00007
	B0	0.00016	0.00016	0.00016
	B0	-0.00005	-0.00005	-0.00005
	B0	0.00107	0.00110	0.00113
	B1	-0.00012	-0.00008	-0.00005
	B1	0.00006	0.00006	0.00015
	B1	-0.00005	-0.00005	-0.00005
	B1	0.00092	0.00096	0.00099

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X0P7H7H	(A1 * B1 * !Y)	-0.00010	-0.00009	-0.00008
	(A1 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B1 * !Y)	0.00000	0.00000	0.00001
	(A1 * B1 * !Y)	0.00031	0.00032	0.00032
	(A1 * B0 * !B1 * !Y)	-0.00010	-0.00009	-0.00008
	(A1 * B0 * !B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !B1 * !Y)	0.00000	0.00000	0.00001
	(A1 * B0 * !B1 * !Y)	0.00031	0.00032	0.00032
	(A1 * !B0 * !B1 * Y)	-0.00010	-0.00009	-0.00008
	(A1 * !B0 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * Y)	0.00031	0.00031	0.00032
	(!A1 * !B0 * !B1 * Y)	-0.00013	-0.00013	-0.00012
	(!A1 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !B1 * Y)	0.00027	0.00027	0.00027

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X0P7H7H	(A1 * B1 * !Y)	0.00010	0.00010	0.00010
	(A1 * B1 * !Y)	0.00002	0.00002	0.00002
	(A1 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * !Y)	-0.00031	-0.00031	-0.00031
	(A1 * B0 * !B1 * !Y)	0.00010	0.00010	0.00010
	(A1 * B0 * !B1 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * !Y)	-0.00031	-0.00031	-0.00031
	(A1 * !B0 * !B1 * Y)	0.00010	0.00010	0.00010
	(A1 * !B0 * !B1 * Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * Y)	-0.00031	-0.00031	-0.00031
	(!A1 * !B0 * !B1 * Y)	0.00013	0.00013	0.00013
	(!A1 * !B0 * !B1 * Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * !B1 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !B1 * Y)	-0.00027	-0.00025	-0.00023

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X0P7H7H	(A0 * B1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * B1 * !Y)	-0.00004	-0.00003	-0.00003
	(A0 * B1 * !Y)	0.00000	0.00000	0.00001
	(A0 * B1 * !Y)	0.00032	0.00032	0.00033
	(A0 * B0 * !B1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * !Y)	0.00032	0.00032	0.00033
	(A0 * !B0 * !B1 * Y)	-0.00013	-0.00012	-0.00010
	(A0 * !B0 * !B1 * Y)	-0.00003	-0.00002	-0.00002
	(A0 * !B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !B1 * Y)	0.00025	0.00026	0.00026
	(!A0 * !B0 * !B1 * Y)	-0.00016	-0.00016	-0.00015
	(!A0 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * !B1 * Y)	0.00021	0.00021	0.00021

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X0P7H7H	(A0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B1 * !Y)	0.00004	0.00004	0.00004
	(A0 * B1 * !Y)	-0.00001	-0.00000	-0.00000
	(A0 * B1 * !Y)	-0.00033	-0.00032	-0.00032
	(A0 * B0 * !B1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * !Y)	0.00004	0.00004	0.00004
	(A0 * B0 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !B1 * !Y)	-0.00033	-0.00032	-0.00032
	(A0 * !B0 * !B1 * Y)	0.00013	0.00013	0.00013
	(A0 * !B0 * !B1 * Y)	0.00002	0.00002	0.00003
	(A0 * !B0 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !B1 * Y)	-0.00026	-0.00026	-0.00025
	(!A0 * !B0 * !B1 * Y)	0.00016	0.00016	0.00016
	(!A0 * !B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * !B1 * Y)	-0.00021	-0.00019	-0.00017

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X0P7H7H	(A1 * B1 * !Y)	-0.00010	-0.00009	-0.00008
	(A1 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B1 * !Y)	0.00000	0.00000	0.00001
	(A1 * B1 * !Y)	0.00032	0.00032	0.00032
	(A0 * !A1 * B1 * !Y)	-0.00010	-0.00009	-0.00008
	(A0 * !A1 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * !Y)	0.00032	0.00032	0.00032
	(!A0 * !A1 * B1 * Y)	-0.00022	-0.00021	-0.00019
	(!A0 * !A1 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * Y)	0.00009	0.00009	0.00009
	(!A0 * !A1 * !B1 * Y)	-0.00024	-0.00024	-0.00023
	(!A0 * !A1 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B1 * Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * !B1 * Y)	0.00009	0.00009	0.00009

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X0P7H7H	(A1 * B1 * !Y)	0.00010	0.00010	0.00010
	(A1 * B1 * !Y)	0.00002	0.00002	0.00002
	(A1 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * !Y)	-0.00032	-0.00032	-0.00032
	(A0 * !A1 * B1 * !Y)	0.00010	0.00010	0.00010
	(A0 * !A1 * B1 * !Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * !Y)	-0.00032	-0.00032	-0.00032
	(!A0 * !A1 * B1 * Y)	0.00021	0.00022	0.00022
	(!A0 * !A1 * B1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * !B1 * Y)	0.00024	0.00024	0.00024
	(!A0 * !A1 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !B1 * Y)	-0.00009	-0.00009	-0.00009

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X0P7H7H	(A1 * B0 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !Y)	0.00034	0.00034	0.00034
	(A0 * !A1 * B0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !Y)	0.00034	0.00034	0.00034
	(!A0 * !A1 * B0 * Y)	-0.00025	-0.00024	-0.00022
	(!A0 * !A1 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !B0 * Y)	-0.00027	-0.00027	-0.00026
	(!A0 * !A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !B0 * Y)	0.00005	0.00005	0.00005

Passive power(pJ) for B1 falling (conditional):

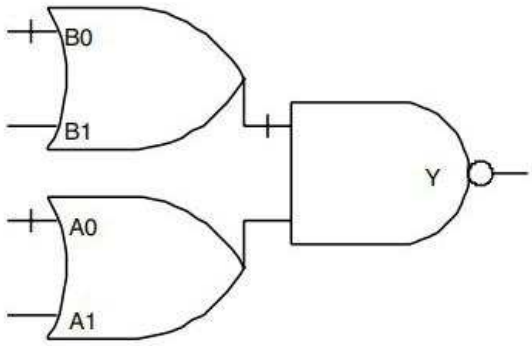
Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X0P7H7H	(A1 * B0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !Y)	0.00003	0.00003	0.00003
	(A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !Y)	-0.00034	-0.00034	-0.00034
	(A0 * !A1 * B0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * B0 * !Y)	0.00003	0.00003	0.00004
	(A0 * !A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * !Y)	-0.00034	-0.00034	-0.00034
	(!A0 * !A1 * B0 * Y)	0.00025	0.00025	0.00025
	(!A0 * !A1 * B0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !B0 * Y)	0.00027	0.00027	0.00027
	(!A0 * !A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !B0 * Y)	-0.00005	-0.00005	-0.00005

OAI22X1H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI22 cell provides the logical inverted AND of two OR groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	Y
0	0	x	x	1
x	1	0	0	1
x	1	x	1	0
x	1	1	x	0
1	x	0	0	1
1	x	x	1	0
1	x	1	x	0

Footprint

Cell Name	Area
OAI22X1H7H	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	**A1**	**B0**	**B1**	**Y**
OAI22X1H7H	0.00089	0.00098	0.00094	0.00103	0.02000

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
OAI22X1H7H	0.00000	0.01522	0.02317

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI22X1H7H	A0->Y (FR)	0.06338	0.24078	0.74645
	A1->Y (FR)	0.05982	0.23340	0.73601
	B0->Y (FR)	0.04660	0.21943	0.72660
	B1->Y (FR)	0.04349	0.21216	0.71756

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI22X1H7H	A0->Y (RF)	0.04569	0.18612	0.59855
	A1->Y (RF)	0.04289	0.18178	0.59445
	B0->Y (RF)	0.03712	0.17132	0.59230
	B1->Y (RF)	0.03440	0.16690	0.58909

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI22X1H7H	A0	0.00166	0.00169	0.00171
	A0	-0.00014	-0.00014	-0.00013
	A0	0.00016	0.00016	0.00016
	A0	-0.00012	-0.00009	-0.00006
	A1	0.00145	0.00150	0.00153
	A1	-0.00007	-0.00007	-0.00007
	A1	0.00016	0.00016	0.00016
	A1	-0.00009	-0.00005	-0.00002
	B0	0.00125	0.00129	0.00133
	B0	-0.00014	-0.00014	-0.00013
	B0	0.00006	0.00006	0.00007
	B0	-0.00016	-0.00012	-0.00009
	B1	0.00107	0.00111	0.00116
	B1	-0.00007	-0.00007	-0.00007
	B1	0.00006	0.00006	0.00006
	B1	-0.00013	-0.00008	-0.00004

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI22X1H7H	A0	-0.00010	-0.00009	-0.00008
	A0	0.00020	0.00020	0.00020
	A0	-0.00016	-0.00016	-0.00016
	A0	0.00170	0.00172	0.00173
	A1	-0.00012	-0.00009	-0.00006
	A1	0.00013	0.00014	0.00014
	A1	-0.00016	-0.00016	-0.00015
	A1	0.00150	0.00153	0.00156
	B0	-0.00013	-0.00010	-0.00008
	B0	0.00020	0.00020	0.00020
	B0	-0.00006	-0.00006	-0.00006
	B0	0.00121	0.00124	0.00127
	B1	-0.00014	-0.00009	-0.00006
	B1	0.00013	0.00014	0.00014
	B1	-0.00006	-0.00006	-0.00006
	B1	0.00103	0.00107	0.00111

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X1H7H	(A1 * B1 * !Y)	-0.00012	-0.00011	-0.00009
	(A1 * B1 * !Y)	-0.00003	-0.00003	-0.00002
	(A1 * B1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B1 * !Y)	0.00032	0.00032	0.00033
	(A1 * B0 * !B1 * !Y)	-0.00012	-0.00011	-0.00009
	(A1 * B0 * !B1 * !Y)	-0.00003	-0.00003	-0.00002
	(A1 * B0 * !B1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !B1 * !Y)	0.00032	0.00032	0.00033
	(A1 * !B0 * !B1 * Y)	-0.00012	-0.00011	-0.00009
	(A1 * !B0 * !B1 * Y)	-0.00003	-0.00003	-0.00002
	(A1 * !B0 * !B1 * Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * !B1 * Y)	0.00032	0.00032	0.00032
	(!A1 * !B0 * !B1 * Y)	-0.00015	-0.00015	-0.00015
	(!A1 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !B1 * Y)	0.00026	0.00027	0.00027

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X1H7H	(A1 * B1 * !Y)	0.00012	0.00012	0.00012
	(A1 * B1 * !Y)	0.00002	0.00003	0.00003
	(A1 * B1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B1 * !Y)	-0.00032	-0.00032	-0.00032
	(A1 * B0 * !B1 * !Y)	0.00012	0.00012	0.00012
	(A1 * B0 * !B1 * !Y)	0.00002	0.00003	0.00003
	(A1 * B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !B1 * !Y)	-0.00032	-0.00032	-0.00032
	(A1 * !B0 * !B1 * Y)	0.00012	0.00012	0.00012
	(A1 * !B0 * !B1 * Y)	0.00003	0.00003	0.00003
	(A1 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * !B1 * Y)	-0.00032	-0.00032	-0.00032
	(!A1 * !B0 * !B1 * Y)	0.00015	0.00015	0.00015
	(!A1 * !B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !B1 * Y)	-0.00027	-0.00025	-0.00023

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X1H7H	(A0 * B1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * B1 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B1 * !Y)	0.00034	0.00035	0.00035
	(A0 * B0 * !B1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * B0 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !B1 * !Y)	0.00034	0.00035	0.00035
	(A0 * !B0 * !B1 * Y)	-0.00016	-0.00014	-0.00013
	(A0 * !B0 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * !B0 * !B1 * Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * !B1 * Y)	0.00026	0.00026	0.00026
	(!A0 * !B0 * !B1 * Y)	-0.00019	-0.00019	-0.00019
	(!A0 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * !B1 * Y)	0.00021	0.00021	0.00021

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X1H7H	(A0 * B1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * B1 * !Y)	0.00004	0.00004	0.00004
	(A0 * B1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * B1 * !Y)	-0.00035	-0.00034	-0.00034
	(A0 * B0 * !B1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * !Y)	0.00004	0.00004	0.00004
	(A0 * B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * !B1 * !Y)	-0.00035	-0.00034	-0.00034
	(A0 * !B0 * !B1 * Y)	0.00015	0.00015	0.00016
	(A0 * !B0 * !B1 * Y)	0.00003	0.00003	0.00003
	(A0 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * !B1 * Y)	-0.00026	-0.00026	-0.00026
	(!A0 * !B0 * !B1 * Y)	0.00019	0.00019	0.00019
	(!A0 * !B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * !B1 * Y)	-0.00021	-0.00020	-0.00017

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X1H7H	(A1 * B1 * !Y)	-0.00012	-0.00011	-0.00009
	(A1 * B1 * !Y)	-0.00003	-0.00003	-0.00002
	(A1 * B1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B1 * !Y)	0.00034	0.00034	0.00034
	(A0 * !A1 * B1 * !Y)	-0.00012	-0.00011	-0.00009
	(A0 * !A1 * B1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * B1 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * B1 * !Y)	0.00034	0.00034	0.00034
	(!A0 * !A1 * B1 * Y)	-0.00024	-0.00023	-0.00022
	(!A0 * !A1 * B1 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * B1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B1 * Y)	0.00010	0.00010	0.00010
	(!A0 * !A1 * !B1 * Y)	-0.00027	-0.00026	-0.00026
	(!A0 * !A1 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !B1 * Y)	0.00010	0.00010	0.00010

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X1H7H	(A1 * B1 * !Y)	0.00012	0.00012	0.00012
	(A1 * B1 * !Y)	0.00002	0.00003	0.00003
	(A1 * B1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B1 * !Y)	-0.00034	-0.00034	-0.00034
	(A0 * !A1 * B1 * !Y)	0.00012	0.00012	0.00012
	(A0 * !A1 * B1 * !Y)	0.00003	0.00003	0.00003
	(A0 * !A1 * B1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B1 * !Y)	-0.00034	-0.00034	-0.00034
	(!A0 * !A1 * B1 * Y)	0.00024	0.00024	0.00024
	(!A0 * !A1 * B1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B1 * Y)	-0.00010	-0.00010	-0.00009
	(!A0 * !A1 * !B1 * Y)	0.00027	0.00027	0.00027
	(!A0 * !A1 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !B1 * Y)	-0.00010	-0.00010	-0.00010

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X1H7H	(A1 * B0 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * !Y)	-0.00004	-0.00004	-0.00004
	(A1 * B0 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !Y)	0.00036	0.00037	0.00037
	(A0 * !A1 * B0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * B0 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * !A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B0 * !Y)	0.00036	0.00037	0.00037
	(!A0 * !A1 * B0 * Y)	-0.00027	-0.00026	-0.00024
	(!A0 * !A1 * B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B0 * Y)	0.00004	0.00005	0.00005
	(!A0 * !A1 * !B0 * Y)	-0.00030	-0.00029	-0.00029
	(!A0 * !A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !B0 * Y)	0.00004	0.00004	0.00004

Passive power(pJ) for B1 falling (conditional):

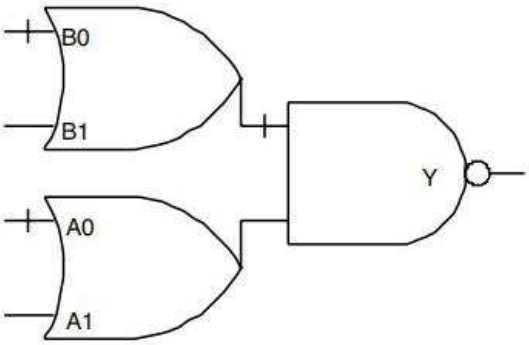
Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X1H7H	(A1 * B0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !Y)	0.00004	0.00004	0.00004
	(A1 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !Y)	-0.00037	-0.00037	-0.00036
	(A0 * !A1 * B0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !Y)	0.00004	0.00004	0.00004
	(A0 * !A1 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B0 * !Y)	-0.00037	-0.00037	-0.00036
	(!A0 * !A1 * B0 * Y)	0.00027	0.00027	0.00027
	(!A0 * !A1 * B0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !B0 * Y)	0.00029	0.00030	0.00030
	(!A0 * !A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !B0 * Y)	-0.00004	-0.00004	-0.00004

OAI22X1P4H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI22 cell provides the logical inverted AND of two OR groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	Y
0	0	x	x	1
x	1	0	0	1
x	1	x	1	0
x	1	1	x	0
1	x	0	0	1
1	x	x	1	0
1	x	1	x	0

Footprint

Cell Name	Area
OAI22X1P4H7H	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	**A1**	**B0**	**B1**	**Y**
OAI22X1P4H7H	0.00095	0.00106	0.00100	0.00110	0.02281

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
OAI22X1P4H7H	0.00000	0.01938	0.03453

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI22X1P4H7H	A0->Y (FR)	0.05960	0.23797	0.74714
	A1->Y (FR)	0.05616	0.23053	0.73740
	B0->Y (FR)	0.04385	0.21764	0.72854
	B1->Y (FR)	0.04033	0.20988	0.71971

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI22X1P4H7H	A0->Y (RF)	0.04383	0.18564	0.60306
	A1->Y (RF)	0.04084	0.18113	0.59877
	B0->Y (RF)	0.03551	0.17085	0.59596
	B1->Y (RF)	0.03268	0.16628	0.59188

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI22X1P4H7H	A0	0.00181	0.00185	0.00188
	A0	-0.00016	-0.00016	-0.00016
	A0	0.00019	0.00019	0.00019
	A0	-0.00013	-0.00010	-0.00007
	A1	0.00158	0.00163	0.00167
	A1	-0.00008	-0.00008	-0.00008
	A1	0.00019	0.00019	0.00019
	A1	-0.00010	-0.00006	-0.00003
	B0	0.00138	0.00142	0.00146
	B0	-0.00016	-0.00016	-0.00016
	B0	0.00007	0.00007	0.00008
	B0	-0.00017	-0.00012	-0.00008
	B1	0.00116	0.00121	0.00126
	B1	-0.00009	-0.00008	-0.00008
	B1	0.00007	0.00007	0.00007
	B1	-0.00014	-0.00009	-0.00004

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI22X1P4H7H	A0	-0.00012	-0.00010	-0.00009
	A0	0.00023	0.00023	0.00023
	A0	-0.00018	-0.00018	-0.00018
	A0	0.00184	0.00187	0.00189
	A1	-0.00014	-0.00010	-0.00007
	A1	0.00016	0.00016	0.00016
	A1	-0.00018	-0.00018	-0.00018
	A1	0.00163	0.00167	0.00169
	B0	-0.00015	-0.00012	-0.00009
	B0	0.00023	0.00023	0.00023
	B0	-0.00007	-0.00007	-0.00007
	B0	0.00128	0.00135	0.00138
	B1	-0.00015	-0.00010	-0.00007
	B1	0.00013	0.00016	0.00016
	B1	-0.00007	-0.00007	-0.00007
	B1	0.00111	0.00116	0.00120

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X1P4H7H	(A1 * B1 * !Y)	-0.00014	-0.00012	-0.00011
	(A1 * B1 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B1 * !Y)	0.00034	0.00034	0.00034
	(A1 * B0 * !B1 * !Y)	-0.00014	-0.00012	-0.00010
	(A1 * B0 * !B1 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * !B1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !B1 * !Y)	0.00034	0.00034	0.00034
	(A1 * !B0 * !B1 * Y)	-0.00014	-0.00012	-0.00011
	(A1 * !B0 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * Y)	0.00033	0.00034	0.00034
	(!A1 * !B0 * !B1 * Y)	-0.00017	-0.00017	-0.00017
	(!A1 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !B1 * Y)	0.00028	0.00028	0.00028

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X1P4H7H	(A1 * B1 * !Y)	0.00013	0.00014	0.00014
	(A1 * B1 * !Y)	0.00003	0.00003	0.00003
	(A1 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * !Y)	-0.00034	-0.00034	-0.00033
	(A1 * B0 * !B1 * !Y)	0.00013	0.00014	0.00014
	(A1 * B0 * !B1 * !Y)	0.00003	0.00003	0.00003
	(A1 * B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !B1 * !Y)	-0.00034	-0.00033	-0.00033
	(A1 * !B0 * !B1 * Y)	0.00013	0.00014	0.00014
	(A1 * !B0 * !B1 * Y)	0.00003	0.00003	0.00003
	(A1 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * !B1 * Y)	-0.00034	-0.00034	-0.00033
	(!A1 * !B0 * !B1 * Y)	0.00017	0.00017	0.00018
	(!A1 * !B0 * !B1 * Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !B1 * Y)	-0.00028	-0.00026	-0.00023

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X1P4H7H	(A0 * B1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * B1 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B1 * !Y)	0.00037	0.00037	0.00037
	(A0 * B0 * !B1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * B0 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !B1 * !Y)	0.00037	0.00037	0.00037
	(A0 * !B0 * !B1 * Y)	-0.00016	-0.00015	-0.00013
	(A0 * !B0 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * !B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * Y)	0.00028	0.00028	0.00029
	(!A0 * !B0 * !B1 * Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * !B1 * Y)	0.00023	0.00023	0.00023

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X1P4H7H	(A0 * B1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * B1 * !Y)	0.00005	0.00005	0.00005
	(A0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * !Y)	-0.00037	-0.00037	-0.00037
	(A0 * B0 * !B1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * !Y)	0.00005	0.00005	0.00005
	(A0 * B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !B1 * !Y)	-0.00037	-0.00037	-0.00036
	(A0 * !B0 * !B1 * Y)	0.00016	0.00016	0.00016
	(A0 * !B0 * !B1 * Y)	0.00003	0.00003	0.00003
	(A0 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * Y)	-0.00028	-0.00028	-0.00028
	(!A0 * !B0 * !B1 * Y)	0.00020	0.00020	0.00020
	(!A0 * !B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * !B1 * Y)	-0.00023	-0.00021	-0.00018

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X1P4H7H	(A1 * B1 * !Y)	-0.00014	-0.00012	-0.00011
	(A1 * B1 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B1 * !Y)	0.00035	0.00035	0.00035
	(A0 * !A1 * B1 * !Y)	-0.00014	-0.00012	-0.00010
	(A0 * !A1 * B1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * B1 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * B1 * !Y)	0.00035	0.00035	0.00035
	(!A0 * !A1 * B1 * Y)	-0.00026	-0.00025	-0.00024
	(!A0 * !A1 * B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B1 * Y)	0.00009	0.00009	0.00009
	(!A0 * !A1 * !B1 * Y)	-0.00029	-0.00029	-0.00029
	(!A0 * !A1 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B1 * Y)	0.00003	0.00003	0.00004
	(!A0 * !A1 * !B1 * Y)	0.00009	0.00009	0.00009

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X1P4H7H	(A1 * B1 * !Y)	0.00014	0.00014	0.00014
	(A1 * B1 * !Y)	0.00003	0.00003	0.00003
	(A1 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * !Y)	-0.00035	-0.00035	-0.00034
	(A0 * !A1 * B1 * !Y)	0.00014	0.00014	0.00014
	(A0 * !A1 * B1 * !Y)	0.00003	0.00003	0.00003
	(A0 * !A1 * B1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B1 * !Y)	-0.00035	-0.00034	-0.00034
	(!A0 * !A1 * B1 * Y)	0.00026	0.00026	0.00026
	(!A0 * !A1 * B1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B1 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * !B1 * Y)	0.00029	0.00029	0.00030
	(!A0 * !A1 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !B1 * Y)	-0.00009	-0.00009	-0.00009

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X1P4H7H	(A1 * B0 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * !Y)	-0.00005	-0.00005	-0.00004
	(A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !Y)	0.00039	0.00039	0.00039
	(A0 * !A1 * B0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !Y)	-0.00005	-0.00005	-0.00004
	(A0 * !A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B0 * !Y)	0.00039	0.00039	0.00039
	(!A0 * !A1 * B0 * Y)	-0.00029	-0.00028	-0.00026
	(!A0 * !A1 * B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B0 * Y)	0.00004	0.00005	0.00005
	(!A0 * !A1 * !B0 * Y)	-0.00033	-0.00032	-0.00032
	(!A0 * !A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !B0 * Y)	0.00004	0.00005	0.00004

Passive power(pJ) for B1 falling (conditional):

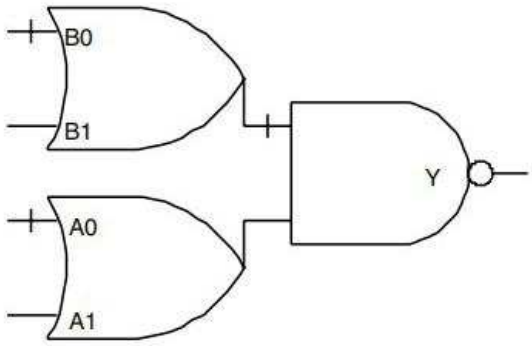
Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X1P4H7H	(A1 * B0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !Y)	0.00005	0.00005	0.00005
	(A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !Y)	-0.00039	-0.00039	-0.00038
	(A0 * !A1 * B0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !Y)	0.00005	0.00005	0.00005
	(A0 * !A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B0 * !Y)	-0.00039	-0.00039	-0.00039
	(!A0 * !A1 * B0 * Y)	0.00029	0.00029	0.00029
	(!A0 * !A1 * B0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B0 * Y)	-0.00005	-0.00004	-0.00004
	(!A0 * !A1 * !B0 * Y)	0.00032	0.00032	0.00033
	(!A0 * !A1 * !B0 * Y)	0.00001	0.00001	0.00002
	(!A0 * !A1 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !B0 * Y)	-0.00004	-0.00004	-0.00004

OAI22X2H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI22 cell provides the logical inverted AND of two OR groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	Y
0	0	x	x	1
x	1	0	0	1
x	1	x	1	0
x	1	1	x	0
1	x	0	0	1
1	x	x	1	0
1	x	1	x	0

Footprint

Cell Name	Area
OAI22X2H7H	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	**A1**	**B0**	**B1**	**Y**
OAI22X2H7H	0.00107	0.00119	0.00115	0.00122	0.02637

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
OAI22X2H7H	0.00000	0.02700	0.05441

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI22X2H7H	A0->Y (FR)	0.05675	0.23619	0.74884
	A1->Y (FR)	0.05311	0.22838	0.73834
	B0->Y (FR)	0.04198	0.21686	0.73055
	B1->Y (FR)	0.03817	0.20859	0.72151

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI22X2H7H	A0->Y (RF)	0.04148	0.18204	0.59759
	A1->Y (RF)	0.03854	0.17748	0.59444
	B0->Y (RF)	0.03385	0.16794	0.59108
	B1->Y (RF)	0.03072	0.16289	0.58680

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI22X2H7H	A0	0.00206	0.00210	0.00213
	A0	-0.00019	-0.00019	-0.00019
	A0	0.00023	0.00023	0.00023
	A0	-0.00015	-0.00011	-0.00009
	A1	0.00176	0.00184	0.00188
	A1	-0.00010	-0.00010	-0.00010
	A1	0.00023	0.00023	0.00023
	A1	-0.00012	-0.00008	-0.00005
	B0	0.00158	0.00163	0.00167
	B0	-0.00019	-0.00019	-0.00019
	B0	0.00008	0.00009	0.00009
	B0	-0.00021	-0.00016	-0.00012
	B1	0.00132	0.00137	0.00143
	B1	-0.00010	-0.00010	-0.00010
	B1	0.00008	0.00009	0.00009
	B1	-0.00017	-0.00011	-0.00006

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI22X2H7H	A0	-0.00015	-0.00012	-0.00011
	A0	0.00027	0.00028	0.00028
	A0	-0.00022	-0.00022	-0.00022
	A0	0.00205	0.00211	0.00213
	A1	-0.00017	-0.00012	-0.00009
	A1	0.00019	0.00019	0.00019
	A1	-0.00022	-0.00022	-0.00022
	A1	0.00184	0.00188	0.00191
	B0	-0.00017	-0.00014	-0.00011
	B0	0.00027	0.00028	0.00028
	B0	-0.00009	-0.00009	-0.00008
	B0	0.00149	0.00155	0.00159
	B1	-0.00018	-0.00013	-0.00009
	B1	0.00018	0.00019	0.00019
	B1	-0.00009	-0.00009	-0.00008
	B1	0.00127	0.00131	0.00135

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X2H7H	(A1 * B1 * !Y)	-0.00016	-0.00015	-0.00013
	(A1 * B1 * !Y)	-0.00004	-0.00003	-0.00003
	(A1 * B1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B1 * !Y)	0.00035	0.00036	0.00036
	(A1 * B0 * !B1 * !Y)	-0.00016	-0.00015	-0.00012
	(A1 * B0 * !B1 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !B1 * !Y)	0.00035	0.00036	0.00036
	(A1 * !B0 * !B1 * Y)	-0.00016	-0.00015	-0.00013
	(A1 * !B0 * !B1 * Y)	-0.00004	-0.00003	-0.00003
	(A1 * !B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * Y)	0.00035	0.00036	0.00036
	(!A1 * !B0 * !B1 * Y)	-0.00020	-0.00020	-0.00020
	(!A1 * !B0 * !B1 * Y)	-0.00002	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * !B1 * Y)	0.00029	0.00029	0.00030

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X2H7H	(A1 * B1 * !Y)	0.00016	0.00016	0.00016
	(A1 * B1 * !Y)	0.00003	0.00003	0.00004
	(A1 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * !Y)	-0.00036	-0.00036	-0.00035
	(A1 * B0 * !B1 * !Y)	0.00016	0.00016	0.00016
	(A1 * B0 * !B1 * !Y)	0.00003	0.00003	0.00003
	(A1 * B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !B1 * !Y)	-0.00036	-0.00035	-0.00035
	(A1 * !B0 * !B1 * Y)	0.00016	0.00016	0.00016
	(A1 * !B0 * !B1 * Y)	0.00003	0.00003	0.00004
	(A1 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * Y)	-0.00036	-0.00035	-0.00035
	(!A1 * !B0 * !B1 * Y)	0.00020	0.00020	0.00021
	(!A1 * !B0 * !B1 * Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * !B1 * Y)	-0.00030	-0.00028	-0.00024

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X2H7H	(A0 * B1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * B1 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B1 * !Y)	0.00040	0.00040	0.00041
	(A0 * B0 * !B1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * !B1 * !Y)	-0.00006	-0.00005	-0.00005
	(A0 * B0 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !B1 * !Y)	0.00040	0.00041	0.00041
	(A0 * !B0 * !B1 * Y)	-0.00020	-0.00018	-0.00016
	(A0 * !B0 * !B1 * Y)	-0.00004	-0.00004	-0.00003
	(A0 * !B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * Y)	0.00030	0.00030	0.00030
	(!A0 * !B0 * !B1 * Y)	-0.00024	-0.00024	-0.00024
	(!A0 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * Y)	0.00002	0.00003	0.00003
	(!A0 * !B0 * !B1 * Y)	0.00024	0.00024	0.00024

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X2H7H	(A0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B1 * !Y)	0.00006	0.00006	0.00006
	(A0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * !Y)	-0.00041	-0.00040	-0.00040
	(A0 * B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * !Y)	0.00006	0.00006	0.00006
	(A0 * B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !B1 * !Y)	-0.00041	-0.00040	-0.00040
	(A0 * !B0 * !B1 * Y)	0.00020	0.00020	0.00020
	(A0 * !B0 * !B1 * Y)	0.00004	0.00004	0.00004
	(A0 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * Y)	-0.00030	-0.00030	-0.00030
	(!A0 * !B0 * !B1 * Y)	0.00024	0.00024	0.00024
	(!A0 * !B0 * !B1 * Y)	0.00001	0.00002	0.00002
	(!A0 * !B0 * !B1 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !B0 * !B1 * Y)	-0.00024	-0.00022	-0.00019

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X2H7H	(A1 * B1 * !Y)	-0.00016	-0.00015	-0.00012
	(A1 * B1 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B1 * !Y)	0.00039	0.00039	0.00039
	(A0 * !A1 * B1 * !Y)	-0.00016	-0.00015	-0.00012
	(A0 * !A1 * B1 * !Y)	-0.00004	-0.00003	-0.00003
	(A0 * !A1 * B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B1 * !Y)	0.00039	0.00039	0.00039
	(!A0 * !A1 * B1 * Y)	-0.00030	-0.00028	-0.00026
	(!A0 * !A1 * B1 * Y)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * B1 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * B1 * Y)	0.00010	0.00010	0.00010
	(!A0 * !A1 * !B1 * Y)	-0.00033	-0.00033	-0.00033
	(!A0 * !A1 * !B1 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * !B1 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !B1 * Y)	0.00010	0.00010	0.00010

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X2H7H	(A1 * B1 * !Y)	0.00016	0.00016	0.00016
	(A1 * B1 * !Y)	0.00003	0.00003	0.00003
	(A1 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * !Y)	-0.00039	-0.00039	-0.00039
	(A0 * !A1 * B1 * !Y)	0.00016	0.00016	0.00016
	(A0 * !A1 * B1 * !Y)	0.00003	0.00003	0.00004
	(A0 * !A1 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B1 * !Y)	-0.00039	-0.00039	-0.00039
	(!A0 * !A1 * B1 * Y)	0.00029	0.00030	0.00030
	(!A0 * !A1 * B1 * Y)	0.00003	0.00003	0.00004
	(!A0 * !A1 * B1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * B1 * Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !A1 * !B1 * Y)	0.00033	0.00033	0.00034
	(!A0 * !A1 * !B1 * Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * !B1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !B1 * Y)	-0.00010	-0.00010	-0.00010

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X2H7H	(A1 * B0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !Y)	-0.00006	-0.00006	-0.00005
	(A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !Y)	0.00042	0.00042	0.00042
	(A0 * !A1 * B0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * B0 * !Y)	-0.00006	-0.00006	-0.00005
	(A0 * !A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B0 * !Y)	0.00042	0.00042	0.00042
	(!A0 * !A1 * B0 * Y)	-0.00032	-0.00030	-0.00028
	(!A0 * !A1 * B0 * Y)	-0.00004	-0.00004	-0.00003
	(!A0 * !A1 * B0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * B0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !B0 * Y)	-0.00037	-0.00036	-0.00035
	(!A0 * !A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !B0 * Y)	0.00004	0.00004	0.00004

Passive power(pJ) for B1 falling (conditional):

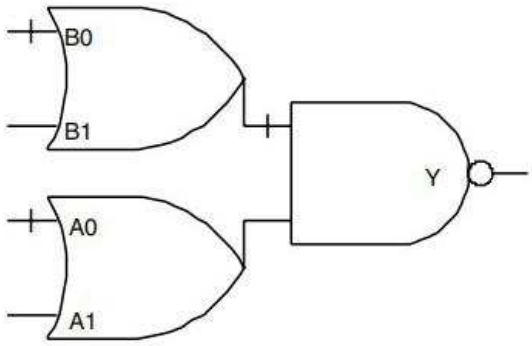
Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X2H7H	(A1 * B0 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * !Y)	0.00006	0.00006	0.00006
	(A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !Y)	-0.00042	-0.00042	-0.00042
	(A0 * !A1 * B0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !Y)	0.00006	0.00006	0.00006
	(A0 * !A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B0 * !Y)	-0.00042	-0.00042	-0.00042
	(!A0 * !A1 * B0 * Y)	0.00032	0.00032	0.00032
	(!A0 * !A1 * B0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * B0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * B0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !B0 * Y)	0.00036	0.00036	0.00037
	(!A0 * !A1 * !B0 * Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * !B0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !B0 * Y)	-0.00004	-0.00004	-0.00004

OAI22X3H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI22 cell provides the logical inverted AND of two OR groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	**A1**	**B0**	**B1**	**Y**
0	**0**	**x**	**x**	**1**
x	**1**	**0**	**0**	**1**
x	**1**	**x**	**1**	**0**
x	**1**	**1**	**x**	**0**
1	**x**	**0**	**0**	**1**
1	**x**	**x**	**1**	**0**
1	**x**	**1**	**x**	**0**

Footprint

Cell Name	Area
OAI22X3H7H	3.64000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	**A1**	**B0**	**B1**	**Y**
OAI22X3H7H	0.00180	0.00196	0.00187	0.00202	0.04158

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
OAI22X3H7H	0.00000	0.03398	0.05566

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI22X3H7H	A0->Y (FR)	0.05699	0.23557	0.74504
	A1->Y (FR)	0.05177	0.22534	0.73339
	B0->Y (FR)	0.04176	0.21571	0.72693
	B1->Y (FR)	0.03604	0.20434	0.71425

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI22X3H7H	A0->Y (RF)	0.04229	0.18264	0.59666
	A1->Y (RF)	0.03849	0.17716	0.59179
	B0->Y (RF)	0.03400	0.16842	0.59080
	B1->Y (RF)	0.03011	0.16237	0.58601

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI22X3H7H	A0	0.00363	0.00369	0.00374
	A0	-0.00029	-0.00028	-0.00028
	A0	0.00035	0.00035	0.00035
	A0	-0.00015	-0.00010	-0.00005
	A1	0.00304	0.00314	0.00322
	A1	-0.00015	-0.00015	-0.00015
	A1	0.00035	0.00035	0.00035
	A1	-0.00020	-0.00013	-0.00007
	B0	0.00287	0.00294	0.00301
	B0	-0.00029	-0.00028	-0.00028
	B0	0.00013	0.00013	0.00014
	B0	-0.00017	-0.00009	-0.00002
	B1	0.00229	0.00239	0.00249
	B1	-0.00017	-0.00016	-0.00002
	B1	0.00013	0.00013	0.00014
	B1	-0.00025	-0.00015	-0.00006

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI22X3H7H	A0	-0.00019	-0.00014	-0.00010
	A0	0.00041	0.00042	0.00042
	A0	-0.00034	-0.00033	-0.00033
	A0	0.00351	0.00357	0.00361
	A1	-0.00021	-0.00012	-0.00007
	A1	0.00028	0.00028	0.00029
	A1	-0.00034	-0.00033	-0.00033
	A1	0.00314	0.00322	0.00327
	B0	-0.00021	-0.00015	-0.00010
	B0	0.00041	0.00041	0.00042
	B0	-0.00013	-0.00013	-0.00013
	B0	0.00249	0.00260	0.00267
	B1	-0.00030	-0.00020	-0.00004
	B1	0.00028	0.00028	0.00034
	B1	-0.00014	-0.00013	-0.00012
	B1	0.00219	0.00227	0.00234

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X3H7H	(A1 * B1 * !Y)	-0.00028	-0.00025	-0.00020
	(A1 * B1 * !Y)	-0.00006	-0.00006	-0.00005
	(A1 * B1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B1 * !Y)	0.00061	0.00062	0.00064
	(A1 * B0 * !B1 * !Y)	-0.00028	-0.00025	-0.00020
	(A1 * B0 * !B1 * !Y)	-0.00006	-0.00006	-0.00005
	(A1 * B0 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !B1 * !Y)	0.00061	0.00062	0.00063
	(A1 * !B0 * !B1 * Y)	-0.00029	-0.00026	-0.00022
	(A1 * !B0 * !B1 * Y)	-0.00006	-0.00006	-0.00005
	(A1 * !B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * Y)	0.00060	0.00061	0.00061
	(!A1 * !B0 * !B1 * Y)	-0.00039	-0.00038	-0.00038
	(!A1 * !B0 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !B1 * Y)	0.00004	0.00004	0.00004
	(!A1 * !B0 * !B1 * Y)	0.00048	0.00049	0.00050

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X3H7H	(A1 * B1 * !Y)	0.00028	0.00028	0.00028
	(A1 * B1 * !Y)	0.00006	0.00006	0.00006
	(A1 * B1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B1 * !Y)	-0.00061	-0.00061	-0.00061
	(A1 * B0 * !B1 * !Y)	0.00028	0.00028	0.00028
	(A1 * B0 * !B1 * !Y)	0.00005	0.00006	0.00006
	(A1 * B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !B1 * !Y)	-0.00061	-0.00061	-0.00061
	(A1 * !B0 * !B1 * Y)	0.00029	0.00029	0.00029
	(A1 * !B0 * !B1 * Y)	0.00005	0.00006	0.00006
	(A1 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * Y)	-0.00060	-0.00060	-0.00060
	(!A1 * !B0 * !B1 * Y)	0.00039	0.00039	0.00039
	(!A1 * !B0 * !B1 * Y)	0.00002	0.00003	0.00003
	(!A1 * !B0 * !B1 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * !B0 * !B1 * Y)	-0.00049	-0.00046	-0.00041

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X3H7H	(A0 * B1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * B1 * !Y)	-0.00008	-0.00008	-0.00008
	(A0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B1 * !Y)	0.00075	0.00075	0.00076
	(A0 * B0 * !B1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * !Y)	-0.00008	-0.00008	-0.00008
	(A0 * B0 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !B1 * !Y)	0.00075	0.00076	0.00076
	(A0 * !B0 * !B1 * Y)	-0.00036	-0.00033	-0.00028
	(A0 * !B0 * !B1 * Y)	-0.00006	-0.00006	-0.00005
	(A0 * !B0 * !B1 * Y)	0.00001	0.00001	0.00002
	(A0 * !B0 * !B1 * Y)	0.00054	0.00054	0.00055
	(!A0 * !B0 * !B1 * Y)	-0.00045	-0.00045	-0.00045
	(!A0 * !B0 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * !B1 * Y)	0.00004	0.00004	0.00004
	(!A0 * !B0 * !B1 * Y)	0.00043	0.00043	0.00043

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X3H7H	(A0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B1 * !Y)	0.00008	0.00008	0.00008
	(A0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * !Y)	-0.00076	-0.00075	-0.00075
	(A0 * B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * !Y)	0.00008	0.00008	0.00008
	(A0 * B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !B1 * !Y)	-0.00076	-0.00075	-0.00074
	(A0 * !B0 * !B1 * Y)	0.00035	0.00036	0.00036
	(A0 * !B0 * !B1 * Y)	0.00005	0.00006	0.00006
	(A0 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * Y)	-0.00054	-0.00054	-0.00054
	(!A0 * !B0 * !B1 * Y)	0.00045	0.00045	0.00045
	(!A0 * !B0 * !B1 * Y)	0.00002	0.00002	0.00003
	(!A0 * !B0 * !B1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !B0 * !B1 * Y)	-0.00043	-0.00040	-0.00035

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X3H7H	(A1 * B1 * !Y)	-0.00028	-0.00025	-0.00020
	(A1 * B1 * !Y)	-0.00006	-0.00006	-0.00005
	(A1 * B1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B1 * !Y)	0.00059	0.00060	0.00061
	(A0 * !A1 * B1 * !Y)	-0.00028	-0.00025	-0.00020
	(A0 * !A1 * B1 * !Y)	-0.00006	-0.00006	-0.00005
	(A0 * !A1 * B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B1 * !Y)	0.00059	0.00059	0.00060
	(!A0 * !A1 * B1 * Y)	-0.00050	-0.00047	-0.00043
	(!A0 * !A1 * B1 * Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !A1 * B1 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B1 * Y)	0.00016	0.00016	0.00017
	(!A0 * !A1 * !B1 * Y)	-0.00058	-0.00057	-0.00057
	(!A0 * !A1 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !B1 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !B1 * Y)	0.00014	0.00015	0.00015

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X3H7H	(A1 * B1 * !Y)	0.00028	0.00028	0.00028
	(A1 * B1 * !Y)	0.00006	0.00006	0.00006
	(A1 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * !Y)	-0.00059	-0.00059	-0.00059
	(A0 * !A1 * B1 * !Y)	0.00028	0.00028	0.00028
	(A0 * !A1 * B1 * !Y)	0.00005	0.00006	0.00006
	(A0 * !A1 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B1 * !Y)	-0.00059	-0.00059	-0.00058
	(!A0 * !A1 * B1 * Y)	0.00049	0.00049	0.00050
	(!A0 * !A1 * B1 * Y)	0.00005	0.00006	0.00006
	(!A0 * !A1 * B1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B1 * Y)	-0.00016	-0.00016	-0.00015
	(!A0 * !A1 * !B1 * Y)	0.00058	0.00058	0.00058
	(!A0 * !A1 * !B1 * Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * !B1 * Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !A1 * !B1 * Y)	-0.00015	-0.00015	-0.00014

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X3H7H	(A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !Y)	-0.00008	-0.00008	-0.00008
	(A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !Y)	0.00075	0.00076	0.00076
	(A0 * !A1 * B0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !Y)	-0.00008	-0.00008	-0.00007
	(A0 * !A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B0 * !Y)	0.00075	0.00076	0.00076
	(!A0 * !A1 * B0 * Y)	-0.00058	-0.00054	-0.00048
	(!A0 * !A1 * B0 * Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !A1 * B0 * Y)	0.00005	0.00006	0.00006
	(!A0 * !A1 * B0 * Y)	0.00010	0.00011	0.00011
	(!A0 * !A1 * !B0 * Y)	-0.00066	-0.00065	-0.00065
	(!A0 * !A1 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !B0 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !B0 * Y)	0.00009	0.00009	0.00009

Passive power(pJ) for B1 falling (conditional):

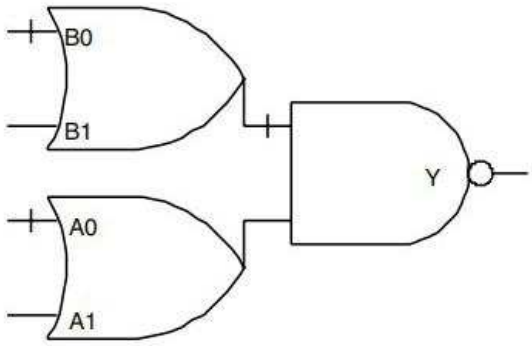
Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X3H7H	(A1 * B0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !Y)	0.00008	0.00008	0.00008
	(A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !Y)	-0.00076	-0.00076	-0.00075
	(A0 * !A1 * B0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * B0 * !Y)	0.00008	0.00008	0.00008
	(A0 * !A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B0 * !Y)	-0.00076	-0.00076	-0.00075
	(!A0 * !A1 * B0 * Y)	0.00057	0.00057	0.00058
	(!A0 * !A1 * B0 * Y)	0.00005	0.00006	0.00006
	(!A0 * !A1 * B0 * Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !A1 * B0 * Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !A1 * !B0 * Y)	0.00065	0.00066	0.00066
	(!A0 * !A1 * !B0 * Y)	0.00002	0.00002	0.00003
	(!A0 * !A1 * !B0 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !B0 * Y)	-0.00009	-0.00009	-0.00009

OAI22X4H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI22 cell provides the logical inverted AND of two OR groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	Y
0	0	x	x	1
x	1	0	0	1
x	1	x	1	0
x	1	1	x	0
1	x	0	0	1
1	x	x	1	0
1	x	1	x	0

Footprint

Cell Name	Area
OAI22X4H7H	4.20000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	**A1**	**B0**	**B1**	**Y**
OAI22X4H7H	0.00207	0.00227	0.00219	0.00232	0.05236

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
OAI22X4H7H	0.00000	0.05432	0.10882

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI22X4H7H	A0->Y (FR)	0.05245	0.23245	0.74757
	A1->Y (FR)	0.04764	0.22267	0.73526
	B0->Y (FR)	0.03866	0.21416	0.73014
	B1->Y (FR)	0.03326	0.20327	0.71913

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI22X4H7H	A0->Y (RF)	0.03926	0.17981	0.59743
	A1->Y (RF)	0.03566	0.17440	0.59181
	B0->Y (RF)	0.03195	0.16628	0.58997
	B1->Y (RF)	0.02810	0.16020	0.58543

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI22X4H7H	A0	0.00430	0.00435	0.00441
	A0	-0.00038	-0.00038	-0.00030
	A0	0.00046	0.00046	0.00046
	A0	-0.00026	-0.00020	-0.00015
	A1	0.00352	0.00369	0.00379
	A1	-0.00021	-0.00020	-0.00017
	A1	0.00045	0.00046	0.00046
	A1	-0.00031	-0.00022	-0.00015
	B0	0.00340	0.00348	0.00357
	B0	-0.00038	-0.00038	-0.00037
	B0	0.00016	0.00018	0.00018
	B0	-0.00027	-0.00018	-0.00011
	B1	0.00270	0.00282	0.00293
	B1	-0.00021	-0.00020	-0.00020
	B1	0.00017	0.00017	0.00018
	B1	-0.00034	-0.00023	-0.00012

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI22X4H7H	A0	-0.00026	-0.00019	-0.00008
	A0	0.00051	0.00055	0.00055
	A0	-0.00044	-0.00044	-0.00043
	A0	0.00418	0.00426	0.00431
	A1	-0.00029	-0.00018	-0.00011
	A1	0.00032	0.00038	0.00039
	A1	-0.00044	-0.00044	-0.00043
	A1	0.00370	0.00382	0.00389
	B0	-0.00029	-0.00021	-0.00015
	B0	0.00054	0.00055	0.00055
	B0	-0.00018	-0.00017	-0.00016
	B0	0.00301	0.00314	0.00322
	B1	-0.00034	-0.00023	-0.00005
	B1	0.00024	0.00037	0.00041
	B1	-0.00018	-0.00017	-0.00015
	B1	0.00261	0.00269	0.00278

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X4H7H	(A1 * B1 * !Y)	-0.00036	-0.00032	-0.00026
	(A1 * B1 * !Y)	-0.00008	-0.00007	-0.00007
	(A1 * B1 * !Y)	0.00001	0.00002	0.00002
	(A1 * B1 * !Y)	0.00067	0.00068	0.00069
	(A1 * B0 * !B1 * !Y)	-0.00036	-0.00032	-0.00025
	(A1 * B0 * !B1 * !Y)	-0.00007	-0.00007	-0.00007
	(A1 * B0 * !B1 * !Y)	0.00001	0.00001	0.00002
	(A1 * B0 * !B1 * !Y)	0.00067	0.00067	0.00068
	(A1 * !B0 * !B1 * Y)	-0.00036	-0.00033	-0.00028
	(A1 * !B0 * !B1 * Y)	-0.00008	-0.00007	-0.00007
	(A1 * !B0 * !B1 * Y)	0.00001	0.00002	0.00002
	(A1 * !B0 * !B1 * Y)	0.00066	0.00066	0.00067
	(!A1 * !B0 * !B1 * Y)	-0.00048	-0.00047	-0.00047
	(!A1 * !B0 * !B1 * Y)	-0.00003	-0.00003	-0.00002
	(!A1 * !B0 * !B1 * Y)	0.00005	0.00005	0.00006
	(!A1 * !B0 * !B1 * Y)	0.00054	0.00054	0.00054

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X4H7H	(A1 * B1 * !Y)	0.00035	0.00036	0.00036
	(A1 * B1 * !Y)	0.00007	0.00007	0.00008
	(A1 * B1 * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * B1 * !Y)	-0.00067	-0.00067	-0.00067
	(A1 * B0 * !B1 * !Y)	0.00035	0.00035	0.00036
	(A1 * B0 * !B1 * !Y)	0.00007	0.00007	0.00007
	(A1 * B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !B1 * !Y)	-0.00067	-0.00067	-0.00066
	(A1 * !B0 * !B1 * Y)	0.00036	0.00036	0.00036
	(A1 * !B0 * !B1 * Y)	0.00007	0.00007	0.00008
	(A1 * !B0 * !B1 * Y)	-0.00001	-0.00002	-0.00001
	(A1 * !B0 * !B1 * Y)	-0.00066	-0.00066	-0.00066
	(!A1 * !B0 * !B1 * Y)	0.00048	0.00048	0.00048
	(!A1 * !B0 * !B1 * Y)	0.00002	0.00003	0.00004
	(!A1 * !B0 * !B1 * Y)	-0.00006	-0.00005	-0.00005
	(!A1 * !B0 * !B1 * Y)	-0.00054	-0.00050	-0.00044

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X4H7H	(A0 * B1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * B1 * !Y)	-0.00010	-0.00010	-0.00010
	(A0 * B1 * !Y)	0.00001	0.00002	0.00002
	(A0 * B1 * !Y)	0.00084	0.00085	0.00085
	(A0 * B0 * !B1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * !Y)	-0.00010	-0.00010	-0.00010
	(A0 * B0 * !B1 * !Y)	0.00001	0.00002	0.00002
	(A0 * B0 * !B1 * !Y)	0.00084	0.00085	0.00085
	(A0 * !B0 * !B1 * Y)	-0.00044	-0.00040	-0.00034
	(A0 * !B0 * !B1 * Y)	-0.00007	-0.00007	-0.00007
	(A0 * !B0 * !B1 * Y)	0.00001	0.00002	0.00002
	(A0 * !B0 * !B1 * Y)	0.00060	0.00060	0.00061
	(!A0 * !B0 * !B1 * Y)	-0.00055	-0.00055	-0.00054
	(!A0 * !B0 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !B0 * !B1 * Y)	0.00005	0.00005	0.00005
	(!A0 * !B0 * !B1 * Y)	0.00047	0.00048	0.00048

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X4H7H	(A0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B1 * !Y)	0.00011	0.00011	0.00011
	(A0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * !Y)	-0.00085	-0.00085	-0.00084
	(A0 * B0 * !B1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * !Y)	0.00010	0.00011	0.00011
	(A0 * B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !B1 * !Y)	-0.00085	-0.00084	-0.00083
	(A0 * !B0 * !B1 * Y)	0.00043	0.00044	0.00044
	(A0 * !B0 * !B1 * Y)	0.00007	0.00007	0.00007
	(A0 * !B0 * !B1 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * !B0 * !B1 * Y)	-0.00060	-0.00060	-0.00059
	(!A0 * !B0 * !B1 * Y)	0.00055	0.00055	0.00055
	(!A0 * !B0 * !B1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !B0 * !B1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !B0 * !B1 * Y)	-0.00048	-0.00044	-0.00038

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X4H7H	(A1 * B1 * !Y)	-0.00036	-0.00032	-0.00025
	(A1 * B1 * !Y)	-0.00007	-0.00007	-0.00007
	(A1 * B1 * !Y)	0.00001	0.00002	0.00002
	(A1 * B1 * !Y)	0.00066	0.00067	0.00068
	(A0 * !A1 * B1 * !Y)	-0.00036	-0.00032	-0.00025
	(A0 * !A1 * B1 * !Y)	-0.00007	-0.00007	-0.00007
	(A0 * !A1 * B1 * !Y)	0.00001	0.00002	0.00002
	(A0 * !A1 * B1 * !Y)	0.00066	0.00067	0.00068
	(!A0 * !A1 * B1 * Y)	-0.00060	-0.00056	-0.00051
	(!A0 * !A1 * B1 * Y)	-0.00008	-0.00007	-0.00007
	(!A0 * !A1 * B1 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * B1 * Y)	0.00015	0.00015	0.00016
	(!A0 * !A1 * !B1 * Y)	-0.00070	-0.00069	-0.00068
	(!A0 * !A1 * !B1 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * !B1 * Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * !B1 * Y)	0.00013	0.00014	0.00014

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X4H7H	(A1 * B1 * !Y)	0.00035	0.00036	0.00036
	(A1 * B1 * !Y)	0.00007	0.00007	0.00007
	(A1 * B1 * !Y)	-0.00002	-0.00001	-0.00001
	(A1 * B1 * !Y)	-0.00066	-0.00066	-0.00065
	(A0 * !A1 * B1 * !Y)	0.00035	0.00036	0.00036
	(A0 * !A1 * B1 * !Y)	0.00007	0.00007	0.00007
	(A0 * !A1 * B1 * !Y)	-0.00002	-0.00001	-0.00001
	(A0 * !A1 * B1 * !Y)	-0.00066	-0.00066	-0.00065
	(!A0 * !A1 * B1 * Y)	0.00059	0.00060	0.00060
	(!A0 * !A1 * B1 * Y)	0.00007	0.00007	0.00008
	(!A0 * !A1 * B1 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * B1 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !A1 * !B1 * Y)	0.00070	0.00070	0.00071
	(!A0 * !A1 * !B1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !B1 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * !B1 * Y)	-0.00014	-0.00014	-0.00013

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X4H7H	(A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !Y)	-0.00010	-0.00010	-0.00010
	(A1 * B0 * !Y)	0.00001	0.00002	0.00002
	(A1 * B0 * !Y)	0.00085	0.00085	0.00086
	(A0 * !A1 * B0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !Y)	-0.00010	-0.00010	-0.00010
	(A0 * !A1 * B0 * !Y)	0.00001	0.00002	0.00002
	(A0 * !A1 * B0 * !Y)	0.00084	0.00085	0.00086
	(!A0 * !A1 * B0 * Y)	-0.00067	-0.00063	-0.00056
	(!A0 * !A1 * B0 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * B0 * Y)	0.00007	0.00007	0.00008
	(!A0 * !A1 * B0 * Y)	0.00008	0.00009	0.00009
	(!A0 * !A1 * !B0 * Y)	-0.00078	-0.00077	-0.00076
	(!A0 * !A1 * !B0 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * !B0 * Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * !B0 * Y)	0.00007	0.00007	0.00008

Passive power(pJ) for B1 falling (conditional):

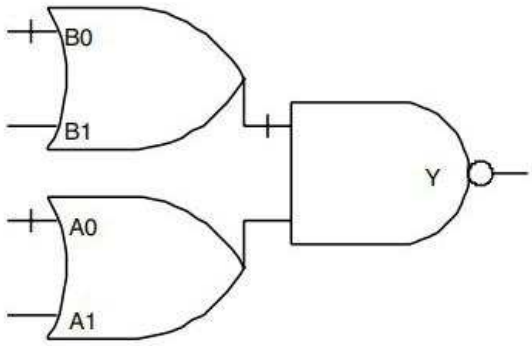
Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X4H7H	(A1 * B0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !Y)	0.00010	0.00011	0.00011
	(A1 * B0 * !Y)	-0.00002	-0.00001	-0.00001
	(A1 * B0 * !Y)	-0.00086	-0.00085	-0.00084
	(A0 * !A1 * B0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * B0 * !Y)	0.00010	0.00011	0.00011
	(A0 * !A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B0 * !Y)	-0.00086	-0.00085	-0.00084
	(!A0 * !A1 * B0 * Y)	0.00067	0.00067	0.00067
	(!A0 * !A1 * B0 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * B0 * Y)	-0.00008	-0.00007	-0.00007
	(!A0 * !A1 * B0 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * !B0 * Y)	0.00076	0.00077	0.00078
	(!A0 * !A1 * !B0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !B0 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * !B0 * Y)	-0.00007	-0.00007	-0.00007

OAI22X6H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI22 cell provides the logical inverted AND of two OR groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	Y
0	0	x	x	1
x	1	0	0	1
x	1	x	1	0
x	1	1	x	0
1	x	0	0	1
1	x	x	1	0
1	x	1	x	0

Footprint

Cell Name	Area
OAI22X6H7H	5.32000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	**A1**	**B0**	**B1**	**Y**
OAI22X6H7H	0.00308	0.00331	0.00338	0.00337	0.07824

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
OAI22X6H7H	0.00000	0.08099	0.16324

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI22X6H7H	A0->Y (FR)	0.05030	0.23025	0.74635
	A1->Y (FR)	0.04559	0.22062	0.73565
	B0->Y (FR)	0.03688	0.21218	0.72950
	B1->Y (FR)	0.03102	0.20076	0.71725

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI22X6H7H	A0->Y (RF)	0.03812	0.17876	0.59690
	A1->Y (RF)	0.03410	0.17276	0.59196
	B0->Y (RF)	0.03111	0.16559	0.59098
	B1->Y (RF)	0.02654	0.15847	0.58571

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI22X6H7H	A0	0.00636	0.00647	0.00655
	A0	-0.00057	-0.00056	-0.00048
	A0	0.00068	0.00069	0.00069
	A0	-0.00044	-0.00036	-0.00028
	A1	0.00522	0.00549	0.00562
	A1	-0.00031	-0.00030	-0.00021
	A1	0.00068	0.00069	0.00069
	A1	-0.00048	-0.00036	-0.00025
	B0	0.00506	0.00519	0.00531
	B0	-0.00059	-0.00058	-0.00056
	B0	0.00025	0.00026	0.00029
	B0	-0.00048	-0.00034	-0.00022
	B1	0.00389	0.00411	0.00429
	B1	-0.00031	-0.00030	-0.00029
	B1	0.00025	0.00026	0.00027
	B1	-0.00053	-0.00036	-0.00020

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI22X6H7H	A0	-0.00043	-0.00034	-0.00028
	A0	0.00081	0.00082	0.00083
	A0	-0.00067	-0.00066	-0.00065
	A0	0.00624	0.00638	0.00645
	A1	-0.00048	-0.00033	-0.00022
	A1	0.00046	0.00057	0.00064
	A1	-0.00066	-0.00066	-0.00065
	A1	0.00548	0.00562	0.00572
	B0	-0.00051	-0.00039	-0.00029
	B0	0.00081	0.00082	0.00083
	B0	-0.00026	-0.00026	-0.00025
	B0	0.00453	0.00472	0.00485
	B1	-0.00053	-0.00036	-0.00023
	B1	0.00055	0.00057	0.00065
	B1	-0.00027	-0.00026	-0.00025
	B1	0.00374	0.00390	0.00404

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X6H7H	(A1 * B1 * !Y)	-0.00054	-0.00048	-0.00039
	(A1 * B1 * !Y)	-0.00011	-0.00011	-0.00011
	(A1 * B1 * !Y)	0.00002	0.00002	0.00002
	(A1 * B1 * !Y)	0.00101	0.00102	0.00105
	(A1 * B0 * !B1 * !Y)	-0.00054	-0.00048	-0.00039
	(A1 * B0 * !B1 * !Y)	-0.00011	-0.00011	-0.00011
	(A1 * B0 * !B1 * !Y)	0.00002	0.00002	0.00003
	(A1 * B0 * !B1 * !Y)	0.00101	0.00102	0.00103
	(A1 * !B0 * !B1 * Y)	-0.00053	-0.00048	-0.00040
	(A1 * !B0 * !B1 * Y)	-0.00011	-0.00011	-0.00011
	(A1 * !B0 * !B1 * Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !B1 * Y)	0.00100	0.00100	0.00101
	(!A1 * !B0 * !B1 * Y)	-0.00071	-0.00070	-0.00069
	(!A1 * !B0 * !B1 * Y)	-0.00005	-0.00004	-0.00004
	(!A1 * !B0 * !B1 * Y)	0.00007	0.00008	0.00008
	(!A1 * !B0 * !B1 * Y)	0.00079	0.00082	0.00083

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X6H7H	(A1 * B1 * !Y)	0.00053	0.00053	0.00054
	(A1 * B1 * !Y)	0.00011	0.00011	0.00011
	(A1 * B1 * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * B1 * !Y)	-0.00101	-0.00101	-0.00100
	(A1 * B0 * !B1 * !Y)	0.00052	0.00053	0.00054
	(A1 * B0 * !B1 * !Y)	0.00011	0.00011	0.00011
	(A1 * B0 * !B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !B1 * !Y)	-0.00101	-0.00101	-0.00100
	(A1 * !B0 * !B1 * Y)	0.00053	0.00053	0.00053
	(A1 * !B0 * !B1 * Y)	0.00011	0.00011	0.00011
	(A1 * !B0 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !B1 * Y)	-0.00100	-0.00100	-0.00100
	(!A1 * !B0 * !B1 * Y)	0.00071	0.00071	0.00071
	(!A1 * !B0 * !B1 * Y)	0.00004	0.00005	0.00006
	(!A1 * !B0 * !B1 * Y)	-0.00008	-0.00008	-0.00007
	(!A1 * !B0 * !B1 * Y)	-0.00083	-0.00076	-0.00067

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X6H7H	(A0 * B1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * B1 * !Y)	-0.00016	-0.00016	-0.00015
	(A0 * B1 * !Y)	0.00002	0.00002	0.00003
	(A0 * B1 * !Y)	0.00122	0.00124	0.00124
	(A0 * B0 * !B1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * !B1 * !Y)	-0.00016	-0.00016	-0.00016
	(A0 * B0 * !B1 * !Y)	0.00002	0.00002	0.00003
	(A0 * B0 * !B1 * !Y)	0.00124	0.00124	0.00124
	(A0 * !B0 * !B1 * Y)	-0.00063	-0.00057	-0.00049
	(A0 * !B0 * !B1 * Y)	-0.00012	-0.00011	-0.00010
	(A0 * !B0 * !B1 * Y)	0.00002	0.00002	0.00003
	(A0 * !B0 * !B1 * Y)	0.00089	0.00089	0.00090
	(!A0 * !B0 * !B1 * Y)	-0.00080	-0.00080	-0.00079
	(!A0 * !B0 * !B1 * Y)	-0.00005	-0.00004	-0.00003
	(!A0 * !B0 * !B1 * Y)	0.00007	0.00008	0.00008
	(!A0 * !B0 * !B1 * Y)	0.00070	0.00071	0.00071

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X6H7H	(A0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B1 * !Y)	0.00016	0.00016	0.00017
	(A0 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B1 * !Y)	-0.00124	-0.00123	-0.00122
	(A0 * B0 * !B1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * !Y)	0.00016	0.00016	0.00017
	(A0 * B0 * !B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !B1 * !Y)	-0.00124	-0.00123	-0.00122
	(A0 * !B0 * !B1 * Y)	0.00063	0.00063	0.00063
	(A0 * !B0 * !B1 * Y)	0.00011	0.00011	0.00012
	(A0 * !B0 * !B1 * Y)	-0.00003	-0.00002	-0.00002
	(A0 * !B0 * !B1 * Y)	-0.00089	-0.00089	-0.00088
	(!A0 * !B0 * !B1 * Y)	0.00080	0.00080	0.00081
	(!A0 * !B0 * !B1 * Y)	0.00004	0.00005	0.00005
	(!A0 * !B0 * !B1 * Y)	-0.00008	-0.00008	-0.00007
	(!A0 * !B0 * !B1 * Y)	-0.00071	-0.00065	-0.00056

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X6H7H	(A1 * B1 * !Y)	-0.00056	-0.00049	-0.00039
	(A1 * B1 * !Y)	-0.00011	-0.00011	-0.00011
	(A1 * B1 * !Y)	0.00002	0.00002	0.00003
	(A1 * B1 * !Y)	0.00102	0.00103	0.00105
	(A0 * !A1 * B1 * !Y)	-0.00056	-0.00049	-0.00039
	(A0 * !A1 * B1 * !Y)	-0.00011	-0.00011	-0.00011
	(A0 * !A1 * B1 * !Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * B1 * !Y)	0.00102	0.00103	0.00105
	(!A0 * !A1 * B1 * Y)	-0.00091	-0.00085	-0.00077
	(!A0 * !A1 * B1 * Y)	-0.00012	-0.00012	-0.00011
	(!A0 * !A1 * B1 * Y)	0.00011	0.00012	0.00012
	(!A0 * !A1 * B1 * Y)	0.00023	0.00024	0.00025
	(!A0 * !A1 * !B1 * Y)	-0.00108	-0.00107	-0.00105
	(!A0 * !A1 * !B1 * Y)	-0.00005	-0.00004	-0.00004
	(!A0 * !A1 * !B1 * Y)	0.00012	0.00013	0.00013
	(!A0 * !A1 * !B1 * Y)	0.00021	0.00022	0.00022

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X6H7H	(A1 * B1 * !Y)	0.00055	0.00055	0.00056
	(A1 * B1 * !Y)	0.00011	0.00011	0.00011
	(A1 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B1 * !Y)	-0.00102	-0.00101	-0.00101
	(A0 * !A1 * B1 * !Y)	0.00055	0.00055	0.00056
	(A0 * !A1 * B1 * !Y)	0.00011	0.00011	0.00011
	(A0 * !A1 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B1 * !Y)	-0.00102	-0.00101	-0.00100
	(!A0 * !A1 * B1 * Y)	0.00089	0.00090	0.00091
	(!A0 * !A1 * B1 * Y)	0.00011	0.00012	0.00012
	(!A0 * !A1 * B1 * Y)	-0.00012	-0.00011	-0.00011
	(!A0 * !A1 * B1 * Y)	-0.00023	-0.00023	-0.00023
	(!A0 * !A1 * !B1 * Y)	0.00107	0.00108	0.00108
	(!A0 * !A1 * !B1 * Y)	0.00004	0.00005	0.00005
	(!A0 * !A1 * !B1 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * !A1 * !B1 * Y)	-0.00022	-0.00021	-0.00021

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X6H7H	(A1 * B0 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * !Y)	-0.00015	-0.00015	-0.00015
	(A1 * B0 * !Y)	0.00002	0.00002	0.00003
	(A1 * B0 * !Y)	0.00122	0.00123	0.00123
	(A0 * !A1 * B0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * B0 * !Y)	-0.00015	-0.00015	-0.00015
	(A0 * !A1 * B0 * !Y)	0.00002	0.00003	0.00003
	(A0 * !A1 * B0 * !Y)	0.00122	0.00123	0.00124
	(!A0 * !A1 * B0 * Y)	-0.00097	-0.00090	-0.00080
	(!A0 * !A1 * B0 * Y)	-0.00011	-0.00011	-0.00010
	(!A0 * !A1 * B0 * Y)	0.00011	0.00011	0.00012
	(!A0 * !A1 * B0 * Y)	0.00011	0.00012	0.00012
	(!A0 * !A1 * !B0 * Y)	-0.00113	-0.00112	-0.00110
	(!A0 * !A1 * !B0 * Y)	-0.00005	-0.00004	-0.00004
	(!A0 * !A1 * !B0 * Y)	0.00012	0.00012	0.00013
	(!A0 * !A1 * !B0 * Y)	0.00009	0.00010	0.00010

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X6H7H	(A1 * B0 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * !Y)	0.00016	0.00016	0.00016
	(A1 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !Y)	-0.00123	-0.00122	-0.00122
	(A0 * !A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !Y)	0.00016	0.00016	0.00016
	(A0 * !A1 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B0 * !Y)	-0.00123	-0.00122	-0.00121
	(!A0 * !A1 * B0 * Y)	0.00096	0.00097	0.00097
	(!A0 * !A1 * B0 * Y)	0.00010	0.00011	0.00011
	(!A0 * !A1 * B0 * Y)	-0.00012	-0.00011	-0.00011
	(!A0 * !A1 * B0 * Y)	-0.00011	-0.00011	-0.00011
	(!A0 * !A1 * !B0 * Y)	0.00112	0.00113	0.00113
	(!A0 * !A1 * !B0 * Y)	0.00004	0.00005	0.00005
	(!A0 * !A1 * !B0 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * !A1 * !B0 * Y)	-0.00010	-0.00010	-0.00009

OAI2BB1X0P5H7H

Cell Description

The OAI2BB1 cell provides the logical inverted AND of one OR group of two inverted inputs (A0N, A1N) and an additional non-inverted input (B0). The output (Y) is represented by the logic equation:

Truth Table

INPUT			OUTPUT
A0	A1	B0	YN
x	x	0	1
0	x	1	0
1	0	1	0
1	1	1	1

Footprint

Cell Name	Area
OAI2BB1X0P5H7H	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	YN
OAI2BB1X0P5H7H	0.00086	0.00094	0.00080	0.02587

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI2BB1X0P5H7H	0.00000	0.01426	0.01937

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2BB1X0P5H7H	A0->YN (RR)	0.07665	0.22821	0.59809
	A1->YN (RR)	0.07575	0.22480	0.58480
	B0->YN (FR)	0.02654	0.19005	0.69369

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2BB1X0P5H7H	A0->YN (FF)	0.07305	0.25417	0.69756
	A1->YN (FF)	0.07096	0.24925	0.68595
	B0->YN (RF)	0.03354	0.21538	0.75052

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2BB1X0P5H7H	A0	0.00051	0.00059	0.00064
	A0	-0.00000	-0.00000	0.00000
	A0	-0.00004	-0.00004	-0.00004
	A0	0.00134	0.00141	0.00147
	A1	0.00049	0.00056	0.00064
	A1	-0.00000	-0.00000	0.00000
	A1	-0.00000	0.00000	0.00001
	A1	0.00119	0.00126	0.00133
	B0	0.00042	0.00050	0.00053
	B0	-0.00005	-0.00005	-0.00004
	B0	0.00006	0.00006	0.00006
	B0	-0.00014	-0.00012	-0.00010

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2BB1X0P5H7H	A0	0.00133	0.00139	0.00144
	A0	0.00000	0.00000	0.00000
	A0	0.00004	0.00004	0.00004
	A0	0.00053	0.00059	0.00064
	A1	0.00123	0.00130	0.00136
	A1	-0.00000	0.00000	0.00000
	A1	-0.00000	0.00000	0.00000
	A1	0.00053	0.00060	0.00066
	B0	0.00013	0.00015	0.00017
	B0	0.00005	0.00005	0.00005
	B0	-0.00006	-0.00006	-0.00006
	B0	0.00076	0.00079	0.00081

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X0P5H7H	(A1 * !B0 * YN)	0.00017	0.00019	0.00020
	(A1 * !B0 * YN)	0.00006	0.00006	0.00007
	(A1 * !B0 * YN)	-0.00008	-0.00008	-0.00008
	(A1 * !B0 * YN)	0.00117	0.00118	0.00121
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	-0.00016	-0.00016	-0.00016
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	0.00001	0.00001	0.00002
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	0.00018	0.00018	0.00019

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X0P5H7H	(A1 * !B0 * YN)	0.00093	0.00095	0.00097
	(A1 * !B0 * YN)	-0.00006	-0.00006	-0.00006
	(A1 * !B0 * YN)	0.00008	0.00008	0.00008
	(A1 * !B0 * YN)	-0.00006	-0.00004	-0.00002
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	0.00016	0.00016	0.00017
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	0.00001	0.00001	0.00001
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	-0.00002	-0.00001	-0.00001
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	-0.00019	-0.00017	-0.00016

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X0P5H7H	(A0 * !B0 * YN)	0.00014	0.00017	0.00020
	(A0 * !B0 * YN)	0.00006	0.00006	0.00006
	(A0 * !B0 * YN)	-0.00005	-0.00005	-0.00004
	(A0 * !B0 * YN)	0.00103	0.00106	0.00109
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	-0.00027	-0.00027	-0.00027
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	0.00002	0.00003	0.00003
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	0.00004	0.00005	0.00005

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X0P5H7H	(A0 * !B0 * YN)	0.00083	0.00085	0.00089
	(A0 * !B0 * YN)	-0.00006	-0.00006	-0.00006
	(A0 * !B0 * YN)	0.00005	0.00005	0.00005
	(A0 * !B0 * YN)	-0.00006	-0.00004	0.00000
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	0.00027	0.00027	0.00027
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	0.00001	0.00001	0.00001
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	-0.00003	-0.00002	-0.00002
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	-0.00005	-0.00005	-0.00004

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X0P5H7H	(A0 * A1 * YN)	-0.00013	-0.00013	-0.00013
	(A0 * A1 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * YN)	0.00001	0.00001	0.00001
	(A0 * A1 * YN)	0.00026	0.00026	0.00026

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X0P5H7H	(A0 * A1 * YN)	0.00013	0.00014	0.00014
	(A0 * A1 * YN)	0.00001	0.00001	0.00001
	(A0 * A1 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * YN)	-0.00026	-0.00025	-0.00024

OAI2BB1X0P7H7H

Cell Description

The OAI2BB1 cell provides the logical inverted AND of one OR group of two inverted inputs (A0N, A1N) and an additional non-inverted input (B0). The output (Y) is represented by the logic equation:

Truth Table

INPUT			OUTPUT
A0	A1	B0	YN
x	x	0	1
0	x	1	0
1	0	1	0
1	1	1	1

Footprint

Cell Name	Area
OAI2BB1X0P7H7H	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	YN
OAI2BB1X0P7H7H	0.00081	0.00092	0.00087	0.02860

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI2BB1X0P7H7H	0.00000	0.01484	0.02153

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2BB1X0P7H7H	A0->YN (RR)	0.07581	0.22558	0.59077
	A1->YN (RR)	0.07573	0.22305	0.57941
	B0->YN (FR)	0.02560	0.18634	0.68540

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2BB1X0P7H7H	A0->YN (FF)	0.07176	0.25208	0.69411
	A1->YN (FF)	0.07023	0.24788	0.68334
	B0->YN (RF)	0.03282	0.21420	0.74945

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2BB1X0P7H7H	A0	0.00057	0.00063	0.00069
	A0	-0.00001	-0.00001	-0.00001
	A0	-0.00004	-0.00003	-0.00003
	A0	0.00137	0.00144	0.00150
	A1	0.00054	0.00061	0.00068
	A1	-0.00001	-0.00001	0.00000
	A1	0.00000	0.00000	0.00001
	A1	0.00122	0.00129	0.00136
	B0	0.00053	0.00060	0.00062
	B0	-0.00006	-0.00006	-0.00006
	B0	0.00007	0.00007	0.00007
	B0	-0.00012	-0.00009	-0.00007

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2BB1X0P7H7H	A0	0.00135	0.00141	0.00145
	A0	0.00001	0.00001	0.00001
	A0	0.00003	0.00003	0.00004
	A0	0.00057	0.00063	0.00067
	A1	0.00126	0.00133	0.00140
	A1	0.00000	0.00001	0.00001
	A1	-0.00001	-0.00000	0.00000
	A1	0.00058	0.00064	0.00072
	B0	0.00011	0.00014	0.00015
	B0	0.00006	0.00006	0.00006
	B0	-0.00007	-0.00007	-0.00007
	B0	0.00083	0.00085	0.00087

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X0P7H7H	(A1 * !B0 * YN)	0.00017	0.00018	0.00021
	(A1 * !B0 * YN)	0.00006	0.00006	0.00006
	(A1 * !B0 * YN)	-0.00009	-0.00009	-0.00009
	(A1 * !B0 * YN)	0.00118	0.00119	0.00121
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	-0.00015	-0.00015	-0.00014
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	0.00001	0.00001	0.00002
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	0.00022	0.00022	0.00023

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X0P7H7H	(A1 * !B0 * YN)	0.00097	0.00099	0.00101
	(A1 * !B0 * YN)	-0.00006	-0.00006	-0.00006
	(A1 * !B0 * YN)	0.00009	0.00009	0.00009
	(A1 * !B0 * YN)	-0.00003	-0.00001	0.00001
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	0.00015	0.00015	0.00015
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	0.00001	0.00001	0.00001
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	-0.00023	-0.00022	-0.00021

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X0P7H7H	(A0 * !B0 * YN)	0.00014	0.00016	0.00019
	(A0 * !B0 * YN)	0.00006	0.00006	0.00006
	(A0 * !B0 * YN)	-0.00005	-0.00005	-0.00005
	(A0 * !B0 * YN)	0.00104	0.00106	0.00110
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	-0.00027	-0.00027	-0.00027
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	0.00002	0.00002	0.00003
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	0.00007	0.00008	0.00008

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X0P7H7H	(A0 * !B0 * YN)	0.00089	0.00091	0.00095
	(A0 * !B0 * YN)	-0.00006	-0.00006	-0.00006
	(A0 * !B0 * YN)	0.00005	0.00005	0.00005
	(A0 * !B0 * YN)	-0.00002	0.00001	0.00005
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	0.00027	0.00027	0.00027
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	0.00001	0.00001	0.00001
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	-0.00008	-0.00007	-0.00007

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X0P7H7H	(A0 * A1 * YN)	-0.00016	-0.00016	-0.00015
	(A0 * A1 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * YN)	0.00001	0.00001	0.00002
	(A0 * A1 * YN)	0.00027	0.00027	0.00027

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X0P7H7H	(A0 * A1 * YN)	0.00016	0.00016	0.00017
	(A0 * A1 * YN)	0.00001	0.00001	0.00001
	(A0 * A1 * YN)	-0.00002	-0.00001	-0.00001
	(A0 * A1 * YN)	-0.00027	-0.00026	-0.00025

OAI2BB1X1H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI2BB1 cell provides the logical inverted AND of one OR group of two inverted inputs (A0N, A1N) and an additional non-inverted input (B0). The output (Y) is represented by the logic equation:

Truth Table

INPUT			OUTPUT
A0	A1	B0	YN
x	x	0	1
0	x	1	0
1	0	1	0
1	1	1	1

Footprint

Cell Name	Area
OAI2BB1X1H7H	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	YN
OAI2BB1X1H7H	0.00086	0.00095	0.00093	0.03280

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI2BB1X1H7H	0.00000	0.01641	0.02615

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2BB1X1H7H	A0->YN (RR)	0.07438	0.22145	0.57850
	A1->YN (RR)	0.07381	0.21856	0.56625
	B0->YN (FR)	0.02253	0.17919	0.67191

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2BB1X1H7H	A0->YN (FF)	0.07045	0.25150	0.69381
	A1->YN (FF)	0.06852	0.24691	0.68335
	B0->YN (RF)	0.03019	0.21230	0.75174

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2BB1X1H7H	A0	0.00061	0.00068	0.00075
	A0	-0.00002	-0.00002	-0.00002
	A0	-0.00003	-0.00003	-0.00003
	A0	0.00139	0.00147	0.00153
	A1	0.00058	0.00066	0.00074
	A1	-0.00002	-0.00002	-0.00002
	A1	0.00001	0.00001	0.00001
	A1	0.00124	0.00132	0.00140
	B0	0.00053	0.00060	0.00063
	B0	-0.00007	-0.00007	-0.00007
	B0	0.00008	0.00008	0.00008
	B0	-0.00017	-0.00014	-0.00012

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2BB1X1H7H	A0	0.00138	0.00145	0.00150
	A0	0.00002	0.00002	0.00002
	A0	0.00003	0.00003	0.00003
	A0	0.00062	0.00068	0.00074
	A1	0.00128	0.00136	0.00143
	A1	0.00002	0.00002	0.00003
	A1	-0.00001	-0.00001	-0.00001
	A1	0.00062	0.00069	0.00077
	B0	0.00013	0.00016	0.00018
	B0	0.00007	0.00007	0.00007
	B0	-0.00008	-0.00008	-0.00008
	B0	0.00090	0.00093	0.00096

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X1H7H	(A1 * !B0 * YN)	0.00021	0.00023	0.00025
	(A1 * !B0 * YN)	0.00006	0.00006	0.00006
	(A1 * !B0 * YN)	-0.00009	-0.00009	-0.00009
	(A1 * !B0 * YN)	0.00122	0.00124	0.00126
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	-0.00016	-0.00016	-0.00016
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	0.00001	0.00001	0.00001
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	0.00019	0.00019	0.00019

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X1H7H	(A1 * !B0 * YN)	0.00094	0.00096	0.00098
	(A1 * !B0 * YN)	-0.00006	-0.00006	-0.00006
	(A1 * !B0 * YN)	0.00009	0.00009	0.00009
	(A1 * !B0 * YN)	-0.00006	-0.00004	-0.00001
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	0.00016	0.00016	0.00017
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	0.00001	0.00001	0.00001
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	-0.00019	-0.00018	-0.00016

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X1H7H	(A0 * !B0 * YN)	0.00018	0.00021	0.00024
	(A0 * !B0 * YN)	0.00006	0.00006	0.00006
	(A0 * !B0 * YN)	-0.00005	-0.00005	-0.00005
	(A0 * !B0 * YN)	0.00109	0.00111	0.00115
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	-0.00028	-0.00027	-0.00027
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	0.00002	0.00003	0.00003
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	0.00005	0.00005	0.00005

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X1H7H	(A0 * !B0 * YN)	0.00085	0.00088	0.00091
	(A0 * !B0 * YN)	-0.00006	-0.00006	-0.00006
	(A0 * !B0 * YN)	0.00005	0.00006	0.00006
	(A0 * !B0 * YN)	-0.00006	-0.00003	0.00000
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	0.00027	0.00027	0.00028
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	0.00001	0.00001	0.00001
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	-0.00005	-0.00005	-0.00005

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X1H7H	(A0 * A1 * YN)	-0.00017	-0.00017	-0.00017
	(A0 * A1 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * YN)	0.00002	0.00002	0.00002
	(A0 * A1 * YN)	0.00028	0.00028	0.00028

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X1H7H	(A0 * A1 * YN)	0.00017	0.00017	0.00018
	(A0 * A1 * YN)	0.00001	0.00001	0.00001
	(A0 * A1 * YN)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * YN)	-0.00028	-0.00027	-0.00026

OAI2BB1X1P4H7H

Cell Description

The OAI2BB1 cell provides the logical inverted AND of one OR group of two inverted inputs (A0N, A1N) and an additional non-inverted input (B0). The output (Y) is represented by the logic equation:

Truth Table

INPUT			OUTPUT
A0	A1	B0	YN
x	x	0	1
0	x	1	0
1	0	1	0
1	1	1	1

Footprint

Cell Name	Area
OAI2BB1X1P4H7H	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	YN
OAI2BB1X1P4H7H	0.00083	0.00092	0.00101	0.03705

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI2BB1X1P4H7H	0.00000	0.01874	0.03183

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2BB1X1P4H7H	A0->YN (RR)	0.07477	0.22228	0.58068
	A1->YN (RR)	0.07457	0.21994	0.56985
	B0->YN (FR)	0.02190	0.17816	0.67034

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2BB1X1P4H7H	A0->YN (FF)	0.07033	0.25256	0.69822
	A1->YN (FF)	0.06871	0.24842	0.68860
	B0->YN (RF)	0.02965	0.21257	0.75582

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2BB1X1P4H7H	A0	0.00069	0.00076	0.00083
	A0	-0.00004	-0.00003	-0.00003
	A0	-0.00003	-0.00003	-0.00002
	A0	0.00145	0.00153	0.00159
	A1	0.00066	0.00074	0.00082
	A1	-0.00004	-0.00003	-0.00003
	A1	0.00001	0.00001	0.00001
	A1	0.00129	0.00137	0.00145
	B0	0.00061	0.00072	0.00075
	B0	-0.00008	-0.00008	-0.00008
	B0	0.00009	0.00009	0.00009
	B0	-0.00015	-0.00012	-0.00009

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2BB1X1P4H7H	A0	0.00142	0.00148	0.00153
	A0	0.00003	0.00003	0.00004
	A0	0.00002	0.00003	0.00003
	A0	0.00068	0.00074	0.00079
	A1	0.00132	0.00140	0.00147
	A1	0.00003	0.00003	0.00004
	A1	-0.00001	-0.00001	-0.00001
	A1	0.00070	0.00077	0.00084
	B0	0.00012	0.00015	0.00017
	B0	0.00008	0.00009	0.00009
	B0	-0.00009	-0.00009	-0.00009
	B0	0.00098	0.00102	0.00104

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X1P4H7H	(A1 * !B0 * YN)	0.00023	0.00024	0.00026
	(A1 * !B0 * YN)	0.00006	0.00006	0.00007
	(A1 * !B0 * YN)	-0.00010	-0.00010	-0.00009
	(A1 * !B0 * YN)	0.00126	0.00127	0.00129
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	-0.00015	-0.00015	-0.00014
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	0.00001	0.00001	0.00002
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	0.00023	0.00023	0.00023

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X1P4H7H	(A1 * !B0 * YN)	0.00098	0.00100	0.00101
	(A1 * !B0 * YN)	-0.00006	-0.00006	-0.00006
	(A1 * !B0 * YN)	0.00009	0.00010	0.00010
	(A1 * !B0 * YN)	-0.00004	-0.00003	-0.00000
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	0.00015	0.00015	0.00015
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	0.00001	0.00001	0.00001
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	-0.00023	-0.00022	-0.00022

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X1P4H7H	(A0 * !B0 * YN)	0.00020	0.00022	0.00025
	(A0 * !B0 * YN)	0.00006	0.00006	0.00006
	(A0 * !B0 * YN)	-0.00006	-0.00006	-0.00006
	(A0 * !B0 * YN)	0.00111	0.00113	0.00116
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	-0.00027	-0.00027	-0.00026
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	0.00002	0.00002	0.00003
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	0.00007	0.00007	0.00008

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X1P4H7H	(A0 * !B0 * YN)	0.00089	0.00092	0.00096
	(A0 * !B0 * YN)	-0.00006	-0.00006	-0.00006
	(A0 * !B0 * YN)	0.00006	0.00006	0.00006
	(A0 * !B0 * YN)	-0.00002	0.00000	0.00004
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	0.00026	0.00027	0.00027
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	0.00001	0.00001	0.00001
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X1P4H7H	(A0 * A1 * YN)	-0.00020	-0.00020	-0.00019
	(A0 * A1 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * YN)	0.00002	0.00002	0.00002
	(A0 * A1 * YN)	0.00029	0.00030	0.00030

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X1P4H7H	(A0 * A1 * YN)	0.00020	0.00020	0.00022
	(A0 * A1 * YN)	0.00001	0.00001	0.00001
	(A0 * A1 * YN)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * YN)	-0.00029	-0.00029	-0.00027

OAI2BB1X2H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI2BB1 cell provides the logical inverted AND of one OR group of two inverted inputs (A0N, A1N) and an additional non-inverted input (B0). The output (Y) is represented by the logic equation:

Truth Table

INPUT			OUTPUT
A0	A1	B0	YN
x	x	0	1
0	x	1	0
1	0	1	0
1	1	1	1

Footprint

Cell Name	Area
OAI2BB1X2H7H	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	YN
OAI2BB1X2H7H	0.00089	0.00093	0.00113	0.04376

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI2BB1X2H7H	0.00000	0.02332	0.04177

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2BB1X2H7H	A0->YN (RR)	0.07905	0.22968	0.59593
	A1->YN (RR)	0.07797	0.22697	0.58532
	B0->YN (FR)	0.02155	0.18031	0.67912

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2BB1X2H7H	A0->YN (FF)	0.07333	0.25760	0.70961
	A1->YN (FF)	0.07106	0.25288	0.69788
	B0->YN (RF)	0.02933	0.21311	0.75895

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2BB1X2H7H	A0	0.00086	0.00095	0.00103
	A0	-0.00005	-0.00005	-0.00005
	A0	-0.00002	-0.00002	-0.00002
	A0	0.00160	0.00169	0.00176
	A1	0.00084	0.00093	0.00103
	A1	-0.00005	-0.00005	-0.00005
	A1	0.00002	0.00002	0.00002
	A1	0.00142	0.00151	0.00160
	B0	0.00076	0.00084	0.00088
	B0	-0.00010	-0.00010	-0.00010
	B0	0.00011	0.00011	0.00011
	B0	-0.00016	-0.00012	-0.00009

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2BB1X2H7H	A0	0.00153	0.00160	0.00167
	A0	0.00005	0.00005	0.00005
	A0	0.00002	0.00002	0.00002
	A0	0.00082	0.00089	0.00096
	A1	0.00142	0.00151	0.00159
	A1	0.00005	0.00005	0.00006
	A1	-0.00002	-0.00002	-0.00002
	A1	0.00084	0.00093	0.00101
	B0	0.00016	0.00020	0.00023
	B0	0.00010	0.00010	0.00011
	B0	-0.00011	-0.00011	-0.00011
	B0	0.00117	0.00120	0.00123

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X2H7H	(A1 * !B0 * YN)	0.00030	0.00031	0.00033
	(A1 * !B0 * YN)	0.00006	0.00007	0.00007
	(A1 * !B0 * YN)	-0.00010	-0.00010	-0.00010
	(A1 * !B0 * YN)	0.00135	0.00136	0.00138
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	-0.00016	-0.00016	-0.00016
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	0.00000	0.00001	0.00002
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	0.00022	0.00022	0.00023

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X2H7H	(A1 * !B0 * YN)	0.00099	0.00101	0.00103
	(A1 * !B0 * YN)	-0.00007	-0.00006	-0.00006
	(A1 * !B0 * YN)	0.00010	0.00010	0.00010
	(A1 * !B0 * YN)	-0.00005	-0.00003	-0.00001
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	0.00016	0.00016	0.00017
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	0.00001	0.00001	0.00001
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	-0.00022	-0.00021	-0.00020

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X2H7H	(A0 * !B0 * YN)	0.00027	0.00030	0.00032
	(A0 * !B0 * YN)	0.00006	0.00006	0.00007
	(A0 * !B0 * YN)	-0.00006	-0.00006	-0.00006
	(A0 * !B0 * YN)	0.00118	0.00120	0.00123
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	-0.00026	-0.00026	-0.00026
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	0.00002	0.00002	0.00003
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	0.00006	0.00006	0.00006

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X2H7H	(A0 * !B0 * YN)	0.00089	0.00092	0.00095
	(A0 * !B0 * YN)	-0.00006	-0.00006	-0.00006
	(A0 * !B0 * YN)	0.00006	0.00006	0.00007
	(A0 * !B0 * YN)	-0.00002	0.00000	0.00004
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	0.00026	0.00026	0.00026
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	0.00001	0.00001	0.00001
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X2H7H	(A0 * A1 * YN)	-0.00024	-0.00024	-0.00023
	(A0 * A1 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * YN)	0.00002	0.00002	0.00002
	(A0 * A1 * YN)	0.00032	0.00032	0.00033

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X2H7H	(A0 * A1 * YN)	0.00024	0.00024	0.00025
	(A0 * A1 * YN)	0.00001	0.00001	0.00002
	(A0 * A1 * YN)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * YN)	-0.00032	-0.00031	-0.00030

OAI2BB1X3H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI2BB1 cell provides the logical inverted AND of one OR group of two inverted inputs (A0N, A1N) and an additional non-inverted input (B0). The output (Y) is represented by the logic equation:

Truth Table

INPUT			OUTPUT
A0	A1	B0	YN
x	x	0	1
0	x	1	0
1	0	1	0
1	1	1	1

Footprint

Cell Name	Area
OAI2BB1X3H7H	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	YN
OAI2BB1X3H7H	0.00097	0.00102	0.00191	0.06872

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI2BB1X3H7H	0.00000	0.03101	0.04028

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2BB1X3H7H	A0->YN (RR)	0.08103	0.23702	0.61521
	A1->YN (RR)	0.07916	0.23268	0.60158
	B0->YN (FR)	0.02068	0.17808	0.67429

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2BB1X3H7H	A0->YN (FF)	0.07105	0.25884	0.71854
	A1->YN (FF)	0.06872	0.25444	0.70896
	B0->YN (RF)	0.02974	0.21317	0.75815

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2BB1X3H7H	A0	0.00131	0.00144	0.00157
	A0	-0.00008	-0.00008	-0.00007
	A0	-0.00002	-0.00002	-0.00001
	A0	0.00205	0.00219	0.00231
	A1	0.00129	0.00142	0.00156
	A1	-0.00008	-0.00008	-0.00008
	A1	0.00002	0.00003	0.00005
	A1	0.00184	0.00198	0.00212
	B0	0.00120	0.00136	0.00143
	B0	-0.00015	-0.00015	-0.00010
	B0	0.00017	0.00017	0.00017
	B0	-0.00031	-0.00024	-0.00019

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2BB1X3H7H	A0	0.00213	0.00225	0.00235
	A0	0.00008	0.00008	0.00011
	A0	0.00002	0.00002	0.00002
	A0	0.00143	0.00153	0.00164
	A1	0.00200	0.00212	0.00223
	A1	0.00008	0.00008	0.00009
	A1	-0.00004	-0.00003	-0.00002
	A1	0.00144	0.00156	0.00168
	B0	0.00034	0.00041	0.00045
	B0	0.00015	0.00015	0.00016
	B0	-0.00017	-0.00017	-0.00017
	B0	0.00201	0.00208	0.00213

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X3H7H	(A1 * !B0 * YN)	0.00049	0.00051	0.00054
	(A1 * !B0 * YN)	0.00009	0.00010	0.00010
	(A1 * !B0 * YN)	-0.00015	-0.00015	-0.00014
	(A1 * !B0 * YN)	0.00175	0.00177	0.00180
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	-0.00020	-0.00020	-0.00020
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	0.00002	0.00002	0.00002
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	0.00021	0.00022	0.00022

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X3H7H	(A1 * !B0 * YN)	0.00128	0.00130	0.00133
	(A1 * !B0 * YN)	-0.00010	-0.00010	-0.00009
	(A1 * !B0 * YN)	0.00014	0.00015	0.00015
	(A1 * !B0 * YN)	0.00003	0.00005	0.00008
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	0.00020	0.00020	0.00021
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	0.00001	0.00001	0.00001
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	-0.00002	-0.00002	-0.00001
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	-0.00022	-0.00021	-0.00020

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X3H7H	(A0 * !B0 * YN)	0.00046	0.00049	0.00052
	(A0 * !B0 * YN)	0.00009	0.00010	0.00010
	(A0 * !B0 * YN)	-0.00010	-0.00010	-0.00009
	(A0 * !B0 * YN)	0.00156	0.00159	0.00162
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	-0.00030	-0.00030	-0.00030
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	0.00003	0.00003	0.00004
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	0.00005	0.00005	0.00005

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X3H7H	(A0 * !B0 * YN)	0.00115	0.00118	0.00122
	(A0 * !B0 * YN)	-0.00010	-0.00010	-0.00009
	(A0 * !B0 * YN)	0.00010	0.00010	0.00010
	(A0 * !B0 * YN)	0.00005	0.00008	0.00012
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	0.00030	0.00030	0.00030
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	0.00001	0.00001	0.00001
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	-0.00003	-0.00003	-0.00002
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	-0.00005	-0.00005	-0.00005

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X3H7H	(A0 * A1 * YN)	-0.00038	-0.00038	-0.00038
	(A0 * A1 * YN)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * YN)	0.00003	0.00003	0.00003
	(A0 * A1 * YN)	0.00057	0.00057	0.00057

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X3H7H	(A0 * A1 * YN)	0.00038	0.00039	0.00040
	(A0 * A1 * YN)	0.00002	0.00002	0.00003
	(A0 * A1 * YN)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * YN)	-0.00057	-0.00055	-0.00053

OAI2BB1X4H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI2BB1 cell provides the logical inverted AND of one OR group of two inverted inputs (A0N, A1N) and an additional non-inverted input (B0). The output (Y) is represented by the logic equation:

Truth Table

INPUT			OUTPUT
A0	A1	B0	YN
x	x	0	1
0	x	1	0
1	0	1	0
1	1	1	1

Footprint

Cell Name	Area
OAI2BB1X4H7H	3.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	YN
OAI2BB1X4H7H	0.00106	0.00111	0.00221	0.08562

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI2BB1X4H7H	0.00000	0.04605	0.06674

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2BB1X4H7H	A0->YN (RR)	0.07841	0.23424	0.61126
	A1->YN (RR)	0.07651	0.22952	0.59685
	B0->YN (FR)	0.01914	0.17591	0.67231

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2BB1X4H7H	A0->YN (FF)	0.06904	0.25675	0.71593
	A1->YN (FF)	0.06680	0.25239	0.70625
	B0->YN (RF)	0.02788	0.21050	0.75531

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2BB1X4H7H	A0	0.00153	0.00168	0.00183
	A0	-0.00012	-0.00012	-0.00011
	A0	-0.00001	-0.00001	-0.00001
	A0	0.00227	0.00243	0.00257
	A1	0.00151	0.00166	0.00182
	A1	-0.00013	-0.00012	-0.00011
	A1	0.00005	0.00005	0.00005
	A1	0.00203	0.00219	0.00235
	B0	0.00140	0.00161	0.00169
	B0	-0.00021	-0.00020	-0.00019
	B0	0.00022	0.00022	0.00022
	B0	-0.00038	-0.00030	-0.00024

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2BB1X4H7H	A0	0.00239	0.00252	0.00263
	A0	0.00012	0.00012	0.00012
	A0	0.00001	0.00001	0.00001
	A0	0.00169	0.00181	0.00192
	A1	0.00223	0.00237	0.00250
	A1	0.00012	0.00012	0.00013
	A1	-0.00005	-0.00005	-0.00005
	A1	0.00170	0.00184	0.00197
	B0	0.00038	0.00046	0.00051
	B0	0.00020	0.00020	0.00021
	B0	-0.00022	-0.00022	-0.00022
	B0	0.00236	0.00245	0.00252

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X4H7H	(A1 * !B0 * YN)	0.00058	0.00060	0.00064
	(A1 * !B0 * YN)	0.00011	0.00011	0.00011
	(A1 * !B0 * YN)	-0.00018	-0.00018	-0.00018
	(A1 * !B0 * YN)	0.00198	0.00201	0.00204
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	-0.00022	-0.00022	-0.00022
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	0.00001	0.00002	0.00002
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	0.00024	0.00024	0.00025

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X4H7H	(A1 * !B0 * YN)	0.00142	0.00144	0.00147
	(A1 * !B0 * YN)	-0.00011	-0.00011	-0.00011
	(A1 * !B0 * YN)	0.00018	0.00018	0.00018
	(A1 * !B0 * YN)	0.00003	0.00005	0.00008
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	0.00022	0.00022	0.00023
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	0.00001	0.00001	0.00001
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	-0.00002	-0.00002	-0.00001
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	-0.00024	-0.00023	-0.00021

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X4H7H	(A0 * !B0 * YN)	0.00056	0.00059	0.00063
	(A0 * !B0 * YN)	0.00011	0.00011	0.00011
	(A0 * !B0 * YN)	-0.00012	-0.00012	-0.00012
	(A0 * !B0 * YN)	0.00177	0.00180	0.00184
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	-0.00033	-0.00033	-0.00033
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	0.00004	0.00004	0.00005
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	0.00004	0.00005	0.00005

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X4H7H	(A0 * !B0 * YN)	0.00126	0.00129	0.00133
	(A0 * !B0 * YN)	-0.00011	-0.00011	-0.00011
	(A0 * !B0 * YN)	0.00012	0.00012	0.00013
	(A0 * !B0 * YN)	0.00005	0.00008	0.00012
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	0.00033	0.00033	0.00033
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	0.00001	0.00001	0.00001
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	-0.00005	-0.00004	-0.00004
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	-0.00005	-0.00005	-0.00004

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X4H7H	(A0 * A1 * YN)	-0.00048	-0.00047	-0.00046
	(A0 * A1 * YN)	-0.00003	-0.00003	-0.00002
	(A0 * A1 * YN)	0.00004	0.00004	0.00004
	(A0 * A1 * YN)	0.00061	0.00061	0.00062

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X4H7H	(A0 * A1 * YN)	0.00048	0.00048	0.00050
	(A0 * A1 * YN)	0.00002	0.00003	0.00003
	(A0 * A1 * YN)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * YN)	-0.00062	-0.00060	-0.00057

OAI2BB1X6H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI2BB1 cell provides the logical inverted AND of one OR group of two inverted inputs (A0N, A1N) and an additional non-inverted input (B0). The output (Y) is represented by the logic equation:

Truth Table

INPUT			OUTPUT
A0	A1	B0	YN
x	x	0	1
0	x	1	0
1	0	1	0
1	1	1	1

Footprint

Cell Name	Area
OAI2BB1X6H7H	3.92000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	YN
OAI2BB1X6H7H	0.00117	0.00121	0.00328	0.12864

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI2BB1X6H7H	0.00000	0.06716	0.09485

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2BB1X6H7H	A0->YN (RR)	0.08426	0.24441	0.63104
	A1->YN (RR)	0.08199	0.23955	0.61734
	B0->YN (FR)	0.01784	0.17442	0.67229

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2BB1X6H7H	A0->YN (FF)	0.07239	0.26430	0.73411
	A1->YN (FF)	0.06998	0.26000	0.72432
	B0->YN (RF)	0.02662	0.20921	0.75580

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2BB1X6H7H	A0	0.00230	0.00251	0.00271
	A0	-0.00021	-0.00020	-0.00020
	A0	0.00000	0.00000	0.00001
	A0	0.00297	0.00318	0.00338
	A1	0.00227	0.00248	0.00270
	A1	-0.00021	-0.00020	-0.00020
	A1	0.00005	0.00008	0.00008
	A1	0.00270	0.00291	0.00313
	B0	0.00204	0.00235	0.00247
	B0	-0.00031	-0.00031	-0.00030
	B0	0.00033	0.00033	0.00034
	B0	-0.00064	-0.00051	-0.00042

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2BB1X6H7H	A0	0.00311	0.00329	0.00345
	A0	0.00021	0.00021	0.00021
	A0	-0.00001	-0.00000	0.00000
	A0	0.00248	0.00265	0.00282
	A1	0.00292	0.00311	0.00328
	A1	0.00020	0.00021	0.00021
	A1	-0.00008	-0.00008	-0.00005
	A1	0.00249	0.00268	0.00286
	B0	0.00052	0.00064	0.00072
	B0	0.00030	0.00031	0.00031
	B0	-0.00034	-0.00033	-0.00033
	B0	0.00352	0.00362	0.00372

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X6H7H	(A1 * !B0 * YN)	0.00090	0.00093	0.00097
	(A1 * !B0 * YN)	0.00013	0.00014	0.00015
	(A1 * !B0 * YN)	-0.00025	-0.00025	-0.00024
	(A1 * !B0 * YN)	0.00256	0.00259	0.00263
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	-0.00026	-0.00026	-0.00026
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	-0.00002	-0.00001	-0.00001
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	0.00002	0.00002	0.00003
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	0.00025	0.00025	0.00025

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X6H7H	(A1 * !B0 * YN)	0.00168	0.00171	0.00175
	(A1 * !B0 * YN)	-0.00015	-0.00014	-0.00013
	(A1 * !B0 * YN)	0.00024	0.00025	0.00025
	(A1 * !B0 * YN)	0.00004	0.00006	0.00010
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	0.00026	0.00026	0.00027
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	0.00001	0.00002	0.00002
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	-0.00003	-0.00002	-0.00002
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	-0.00025	-0.00023	-0.00021

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X6H7H	(A0 * !B0 * YN)	0.00088	0.00091	0.00095
	(A0 * !B0 * YN)	0.00014	0.00014	0.00015
	(A0 * !B0 * YN)	-0.00018	-0.00017	-0.00017
	(A0 * !B0 * YN)	0.00232	0.00235	0.00239
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	-0.00037	-0.00037	-0.00036
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	0.00004	0.00005	0.00006
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	0.00004	0.00005	0.00006

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X6H7H	(A0 * !B0 * YN)	0.00150	0.00155	0.00160
	(A0 * !B0 * YN)	-0.00015	-0.00014	-0.00014
	(A0 * !B0 * YN)	0.00018	0.00018	0.00018
	(A0 * !B0 * YN)	0.00005	0.00009	0.00014
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	0.00037	0.00037	0.00037
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	0.00001	0.00002	0.00002
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	-0.00005	-0.00004	-0.00004
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	-0.00005	-0.00005	-0.00004

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X6H7H	(A0 * A1 * YN)	-0.00071	-0.00070	-0.00070
	(A0 * A1 * YN)	-0.00004	-0.00004	-0.00003
	(A0 * A1 * YN)	0.00006	0.00006	0.00007
	(A0 * A1 * YN)	0.00091	0.00092	0.00093

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X6H7H	(A0 * A1 * YN)	0.00071	0.00072	0.00075
	(A0 * A1 * YN)	0.00003	0.00004	0.00005
	(A0 * A1 * YN)	-0.00007	-0.00006	-0.00006
	(A0 * A1 * YN)	-0.00092	-0.00089	-0.00084

OAI2BB2X0P5H7H

Cell Description

The OAI2BB2 cell provides the logical inverted AND of one OR group of two inverted inputs (A0N, A1N) and one OR group of two non-inverted inputs (B0, B1). The output (Y) is represented by the logic equation:

Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	YN
x	x	0	0	1
0	x	x	1	0
0	x	1	x	0
1	0	x	1	0
1	0	1	x	0
1	1	x	1	1
1	1	1	x	1

Footprint

Cell Name	Area
OAI2BB2X0P5H7H	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	B1	YN
OAI2BB2X0P5H7H	0.00094	0.00085	0.00082	0.00088	0.01501

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI2BB2X0P5H7H	0.00000	0.01690	0.02094

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2BB2X0P5H7H	A0->YN (RR)	0.07931	0.18837	0.44402
	A1->YN (RR)	0.07970	0.19121	0.45599
	B0->YN (FR)	0.06292	0.23986	0.74365
	B1->YN (FR)	0.06081	0.23388	0.73674

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2BB2X0P5H7H	A0->YN (FF)	0.07792	0.20603	0.51045
	A1->YN (FF)	0.07974	0.21057	0.52171
	B0->YN (RF)	0.04319	0.17551	0.56904
	B1->YN (RF)	0.04101	0.17189	0.56558

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2BB2X0P5H7H	A0	0.00068	0.00075	0.00082
	A0	-0.00000	0.00000	0.00000
	A0	0.00000	0.00000	0.00001
	A0	0.00124	0.00130	0.00138
	A1	0.00071	0.00077	0.00083
	A1	0.00000	0.00000	0.00000
	A1	-0.00004	-0.00004	-0.00004
	A1	0.00139	0.00145	0.00151
	B0	0.00078	0.00082	0.00084
	B0	-0.00010	-0.00010	-0.00009
	B0	0.00007	0.00007	0.00007
	B0	-0.00004	-0.00002	-0.00001
	B1	0.00068	0.00072	0.00075
	B1	-0.00005	-0.00005	-0.00005
	B1	0.00007	0.00007	0.00007
	B1	-0.00004	-0.00001	0.00001

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2BB2X0P5H7H	A0	0.00129	0.00135	0.00142
	A0	0.00004	0.00005	0.00005
	A0	-0.00000	0.00000	0.00000
	A0	0.00071	0.00077	0.00084
	A1	0.00139	0.00144	0.00149
	A1	0.00004	0.00005	0.00005
	A1	0.00004	0.00004	0.00004
	A1	0.00071	0.00076	0.00081
	B0	0.00018	0.00020	0.00021
	B0	0.00009	0.00010	0.00010
	B0	-0.00007	-0.00007	-0.00007
	B0	0.00102	0.00106	0.00107
	B1	0.00015	0.00018	0.00020
	B1	0.00005	0.00005	0.00006
	B1	-0.00007	-0.00007	-0.00007
	B1	0.00091	0.00095	0.00097

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X0P5H7H	(A1 * !B0 * !B1 * YN)	0.00014	0.00017	0.00019
	(A1 * !B0 * !B1 * YN)	0.00006	0.00006	0.00006
	(A1 * !B0 * !B1 * YN)	-0.00004	-0.00004	-0.00004
	(A1 * !B0 * !B1 * YN)	0.00104	0.00106	0.00110
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	-0.00026	-0.00026	-0.00026
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	0.00002	0.00003	0.00003
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	0.00007	0.00007	0.00007

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X0P5H7H	(A1 * !B0 * !B1 * YN)	0.00091	0.00093	0.00097
	(A1 * !B0 * !B1 * YN)	-0.00006	-0.00006	-0.00006
	(A1 * !B0 * !B1 * YN)	0.00004	0.00004	0.00004
	(A1 * !B0 * !B1 * YN)	0.00000	0.00003	0.00007
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	0.00026	0.00026	0.00026
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	-0.00003	-0.00002	-0.00002
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X0P5H7H	(A0 * !B0 * !B1 * YN)	0.00017	0.00019	0.00021
	(A0 * !B0 * !B1 * YN)	0.00005	0.00006	0.00006
	(A0 * !B0 * !B1 * YN)	-0.00008	-0.00008	-0.00008
	(A0 * !B0 * !B1 * YN)	0.00118	0.00120	0.00121
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	-0.00014	-0.00014	-0.00014
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	0.00022	0.00022	0.00022

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X0P5H7H	(A0 * !B0 * !B1 * YN)	0.00100	0.00102	0.00104
	(A0 * !B0 * !B1 * YN)	-0.00006	-0.00006	-0.00005
	(A0 * !B0 * !B1 * YN)	0.00008	0.00008	0.00008
	(A0 * !B0 * !B1 * YN)	0.00000	0.00002	0.00004
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	0.00014	0.00015	0.00015
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	-0.00022	-0.00021	-0.00020

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X0P5H7H	(A0 * A1 * B1 * YN)	-0.00009	-0.00008	-0.00007
	(A0 * A1 * B1 * YN)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * B1 * YN)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * YN)	0.00028	0.00028	0.00029
	(A0 * A1 * !B1 * YN)	-0.00011	-0.00011	-0.00011
	(A0 * A1 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * YN)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * YN)	0.00025	0.00025	0.00025
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	-0.00011	-0.00011	-0.00009
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	0.00026	0.00026	0.00026

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X0P5H7H	(A0 * A1 * B1 * YN)	0.00008	0.00009	0.00009
	(A0 * A1 * B1 * YN)	0.00002	0.00002	0.00002
	(A0 * A1 * B1 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * YN)	-0.00028	-0.00028	-0.00028
	(A0 * A1 * !B1 * YN)	0.00011	0.00011	0.00011
	(A0 * A1 * !B1 * YN)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * YN)	-0.00025	-0.00024	-0.00023
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	0.00011	0.00012	0.00012
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	0.00002	0.00002	0.00002
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	-0.00026	-0.00026	-0.00026

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X0P5H7H	(A0 * A1 * B0 * YN)	-0.00011	-0.00011	-0.00009
	(A0 * A1 * B0 * YN)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * B0 * YN)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * YN)	0.00028	0.00029	0.00029
	(A0 * A1 * !B0 * YN)	-0.00014	-0.00014	-0.00014
	(A0 * A1 * !B0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * YN)	0.00001	0.00001	0.00002
	(A0 * A1 * !B0 * YN)	0.00026	0.00026	0.00026
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	-0.00004	-0.00004	-0.00004
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	0.00031	0.00031	0.00031

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X0P5H7H	(A0 * A1 * B0 * YN)	0.00011	0.00011	0.00011
	(A0 * A1 * B0 * YN)	0.00002	0.00002	0.00002
	(A0 * A1 * B0 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * YN)	-0.00029	-0.00029	-0.00028
	(A0 * A1 * !B0 * YN)	0.00014	0.00014	0.00014
	(A0 * A1 * !B0 * YN)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * YN)	-0.00002	-0.00001	-0.00001
	(A0 * A1 * !B0 * YN)	-0.00026	-0.00025	-0.00023
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	0.00004	0.00004	0.00004
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	0.00003	0.00003	0.00003
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	-0.00031	-0.00031	-0.00031

OAI2BB2X0P7H7H

Cell Description

The OAI2BB2 cell provides the logical inverted AND of one OR group of two inverted inputs (A0N, A1N) and one OR group of two non-inverted inputs (B0, B1). The output (Y) is represented by the logic equation:

Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	YN
x	x	0	0	1
0	x	x	1	0
0	x	1	x	0
1	0	x	1	0
1	0	1	x	0
1	1	x	1	1
1	1	1	x	1

Footprint

Cell Name	Area
OAI2BB2X0P7H7H	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	B1	YN
OAI2BB2X0P7H7H	0.00094	0.00084	0.00086	0.00092	0.01725

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI2BB2X0P7H7H	0.00000	0.01772	0.02321

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2BB2X0P7H7H	A0->YN (RR)	0.07818	0.18887	0.44847
	A1->YN (RR)	0.07862	0.19161	0.46002
	B0->YN (FR)	0.05809	0.23680	0.74775
	B1->YN (FR)	0.05561	0.23040	0.74062

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2BB2X0P7H7H	A0->YN (FF)	0.07664	0.20751	0.51908
	A1->YN (FF)	0.07849	0.21203	0.53027
	B0->YN (RF)	0.04111	0.17638	0.58038
	B1->YN (RF)	0.03871	0.17252	0.57881

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2BB2X0P7H7H	A0	0.00074	0.00081	0.00089
	A0	-0.00001	-0.00001	-0.00000
	A0	0.00000	0.00000	0.00001
	A0	0.00126	0.00133	0.00141
	A1	0.00077	0.00083	0.00089
	A1	-0.00001	-0.00001	-0.00001
	A1	-0.00003	-0.00003	-0.00003
	A1	0.00142	0.00148	0.00154
	B0	0.00086	0.00088	0.00090
	B0	-0.00011	-0.00011	-0.00011
	B0	0.00008	0.00009	0.00009
	B0	-0.00006	-0.00003	-0.00002
	B1	0.00073	0.00076	0.00079
	B1	-0.00006	-0.00006	-0.00006
	B1	0.00008	0.00009	0.00009
	B1	-0.00005	-0.00002	0.00000

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2BB2X0P7H7H	A0	0.00132	0.00138	0.00145
	A0	0.00005	0.00006	0.00007
	A0	-0.00000	-0.00000	0.00000
	A0	0.00077	0.00083	0.00090
	A1	0.00142	0.00146	0.00152
	A1	0.00006	0.00006	0.00008
	A1	0.00003	0.00003	0.00004
	A1	0.00077	0.00081	0.00086
	B0	0.00019	0.00020	0.00021
	B0	0.00011	0.00011	0.00011
	B0	-0.00009	-0.00009	-0.00008
	B0	0.00108	0.00114	0.00115
	B1	0.00016	0.00019	0.00021
	B1	0.00006	0.00006	0.00009
	B1	-0.00009	-0.00009	-0.00008
	B1	0.00099	0.00102	0.00104

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X0P7H7H	(A1 * !B0 * !B1 * YN)	0.00016	0.00019	0.00022
	(A1 * !B0 * !B1 * YN)	0.00005	0.00006	0.00006
	(A1 * !B0 * !B1 * YN)	-0.00005	-0.00005	-0.00004
	(A1 * !B0 * !B1 * YN)	0.00107	0.00109	0.00112
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	-0.00026	-0.00026	-0.00026
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	0.00002	0.00003	0.00003
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	0.00007	0.00007	0.00008

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X0P7H7H	(A1 * !B0 * !B1 * YN)	0.00091	0.00094	0.00097
	(A1 * !B0 * !B1 * YN)	-0.00006	-0.00006	-0.00005
	(A1 * !B0 * !B1 * YN)	0.00005	0.00005	0.00005
	(A1 * !B0 * !B1 * YN)	0.00000	0.00003	0.00007
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	0.00026	0.00026	0.00026
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	-0.00007	-0.00007	-0.00006

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X0P7H7H	(A0 * !B0 * !B1 * YN)	0.00019	0.00021	0.00023
	(A0 * !B0 * !B1 * YN)	0.00005	0.00006	0.00006
	(A0 * !B0 * !B1 * YN)	-0.00008	-0.00008	-0.00008
	(A0 * !B0 * !B1 * YN)	0.00121	0.00122	0.00124
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	-0.00014	-0.00014	-0.00014
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	0.00000	0.00001	0.00002
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	0.00021	0.00022	0.00023

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X0P7H7H	(A0 * !B0 * !B1 * YN)	0.00101	0.00102	0.00104
	(A0 * !B0 * !B1 * YN)	-0.00006	-0.00006	-0.00005
	(A0 * !B0 * !B1 * YN)	0.00008	0.00008	0.00008
	(A0 * !B0 * !B1 * YN)	-0.00000	0.00002	0.00003
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	0.00014	0.00015	0.00015
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	-0.00002	-0.00001	-0.00000
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	-0.00022	-0.00021	-0.00020

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X0P7H7H	(A0 * A1 * B1 * YN)	-0.00010	-0.00009	-0.00008
	(A0 * A1 * B1 * YN)	-0.00003	-0.00002	-0.00002
	(A0 * A1 * B1 * YN)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * YN)	0.00029	0.00029	0.00029
	(A0 * A1 * !B1 * YN)	-0.00012	-0.00012	-0.00012
	(A0 * A1 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * YN)	0.00001	0.00002	0.00002
	(A0 * A1 * !B1 * YN)	0.00026	0.00026	0.00026
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	-0.00013	-0.00012	-0.00010
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	0.00000	0.00000	0.00001
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	0.00027	0.00027	0.00027

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X0P7H7H	(A0 * A1 * B1 * YN)	0.00009	0.00010	0.00010
	(A0 * A1 * B1 * YN)	0.00002	0.00002	0.00003
	(A0 * A1 * B1 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * YN)	-0.00029	-0.00029	-0.00029
	(A0 * A1 * !B1 * YN)	0.00012	0.00013	0.00013
	(A0 * A1 * !B1 * YN)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * YN)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * !B1 * YN)	-0.00026	-0.00025	-0.00023
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	0.00013	0.00013	0.00013
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	0.00002	0.00002	0.00002
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	-0.00001	-0.00000	-0.00000
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	-0.00027	-0.00027	-0.00027

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X0P7H7H	(A0 * A1 * B0 * YN)	-0.00012	-0.00012	-0.00010
	(A0 * A1 * B0 * YN)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * B0 * YN)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * YN)	0.00029	0.00030	0.00030
	(A0 * A1 * !B0 * YN)	-0.00015	-0.00015	-0.00015
	(A0 * A1 * !B0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * YN)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * YN)	0.00026	0.00026	0.00027
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	-0.00005	-0.00005	-0.00004
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	0.00000	0.00000	0.00001
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	0.00032	0.00032	0.00032

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X0P7H7H	(A0 * A1 * B0 * YN)	0.00012	0.00012	0.00012
	(A0 * A1 * B0 * YN)	0.00002	0.00002	0.00002
	(A0 * A1 * B0 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * YN)	-0.00030	-0.00030	-0.00029
	(A0 * A1 * !B0 * YN)	0.00015	0.00015	0.00015
	(A0 * A1 * !B0 * YN)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * YN)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * !B0 * YN)	-0.00026	-0.00025	-0.00024
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	0.00004	0.00005	0.00005
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	0.00003	0.00003	0.00004
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	-0.00032	-0.00032	-0.00032

OAI2BB2X1H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI2BB2 cell provides the logical inverted AND of one OR group of two inverted inputs (A0N, A1N) and one OR group of two non-inverted inputs (B0, B1). The output (Y) is represented by the logic equation:

Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	YN
x	x	0	0	1
0	x	x	1	0
0	x	1	x	0
1	0	x	1	0
1	0	1	x	0
1	1	x	1	1
1	1	1	x	1

Footprint

Cell Name	Area
OAI2BB2X1H7H	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	B1	YN
OAI2BB2X1H7H	0.00094	0.00085	0.00092	0.00099	0.02071

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI2BB2X1H7H	0.00000	0.01977	0.02805

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2BB2X1H7H	A0->YN (RR)	0.07754	0.18999	0.45366
	A1->YN (RR)	0.07799	0.19256	0.46467
	B0->YN (FR)	0.05243	0.23243	0.74887
	B1->YN (FR)	0.04964	0.22554	0.74057

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2BB2X1H7H	A0->YN (FF)	0.07633	0.21194	0.53583
	A1->YN (FF)	0.07822	0.21633	0.54605
	B0->YN (RF)	0.03925	0.17897	0.59833
	B1->YN (RF)	0.03649	0.17466	0.59491

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2BB2X1H7H	**A0**	0.00084	0.00092	0.00100
	A0	-0.00002	-0.00002	-0.00002
	A0	0.00000	0.00001	0.00001
	A0	0.00131	0.00138	0.00147
	A1	0.00087	0.00094	0.00100
	A1	-0.00002	-0.00002	-0.00002
	A1	-0.00003	-0.00003	-0.00002
	A1	0.00147	0.00154	0.00161
	B0	0.00095	0.00098	0.00100
	B0	-0.00014	-0.00014	-0.00013
	B0	0.00010	0.00010	0.00010
	B0	-0.00007	-0.00005	-0.00003
	B1	0.00079	0.00083	0.00086
	B1	-0.00007	-0.00007	-0.00007
	B1	0.00010	0.00010	0.00010
	B1	-0.00007	-0.00004	-0.00001

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2BB2X1H7H	A0	0.00136	0.00143	0.00150
	A0	0.00008	0.00009	0.00010
	A0	-0.00001	-0.00001	0.00000
	A0	0.00086	0.00093	0.00100
	A1	0.00146	0.00151	0.00157
	A1	0.00008	0.00009	0.00009
	A1	0.00003	0.00003	0.00003
	A1	0.00085	0.00090	0.00096
	B0	0.00020	0.00021	0.00022
	B0	0.00013	0.00014	0.00014
	B0	-0.00010	-0.00010	-0.00010
	B0	0.00122	0.00126	0.00127
	B1	0.00016	0.00019	0.00022
	B1	0.00007	0.00007	0.00010
	B1	-0.00010	-0.00010	-0.00010
	B1	0.00108	0.00112	0.00114

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X1H7H	(A1 * !B0 * !B1 * YN)	0.00020	0.00022	0.00025
	(A1 * !B0 * !B1 * YN)	0.00006	0.00006	0.00007
	(A1 * !B0 * !B1 * YN)	-0.00005	-0.00005	-0.00005
	(A1 * !B0 * !B1 * YN)	0.00111	0.00114	0.00117
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	-0.00026	-0.00026	-0.00026
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	0.00002	0.00003	0.00003
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	0.00007	0.00007	0.00007

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X1H7H	(A1 * !B0 * !B1 * YN)	0.00092	0.00095	0.00098
	(A1 * !B0 * !B1 * YN)	-0.00006	-0.00006	-0.00006
	(A1 * !B0 * !B1 * YN)	0.00005	0.00005	0.00005
	(A1 * !B0 * !B1 * YN)	0.00000	0.00003	0.00006
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	0.00026	0.00026	0.00026
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	-0.00003	-0.00003	-0.00002
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	-0.00007	-0.00007	-0.00006

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X1H7H	(A0 * !B0 * !B1 * YN)	0.00022	0.00024	0.00026
	(A0 * !B0 * !B1 * YN)	0.00006	0.00006	0.00007
	(A0 * !B0 * !B1 * YN)	-0.00009	-0.00009	-0.00009
	(A0 * !B0 * !B1 * YN)	0.00126	0.00127	0.00130
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	-0.00014	-0.00014	-0.00014
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	0.00001	0.00001	0.00002
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	0.00022	0.00022	0.00023

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X1H7H	(A0 * !B0 * !B1 * YN)	0.00102	0.00103	0.00105
	(A0 * !B0 * !B1 * YN)	-0.00006	-0.00006	-0.00006
	(A0 * !B0 * !B1 * YN)	0.00009	0.00009	0.00009
	(A0 * !B0 * !B1 * YN)	-0.00001	0.00001	0.00003
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	0.00014	0.00015	0.00015
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	-0.00002	-0.00001	-0.00001
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	-0.00023	-0.00022	-0.00020

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X1H7H	(A0 * A1 * B1 * YN)	-0.00012	-0.00011	-0.00010
	(A0 * A1 * B1 * YN)	-0.00003	-0.00003	-0.00002
	(A0 * A1 * B1 * YN)	0.00000	0.00001	0.00001
	(A0 * A1 * B1 * YN)	0.00030	0.00030	0.00031
	(A0 * A1 * !B1 * YN)	-0.00015	-0.00015	-0.00015
	(A0 * A1 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * YN)	0.00002	0.00002	0.00002
	(A0 * A1 * !B1 * YN)	0.00027	0.00027	0.00027
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	-0.00015	-0.00014	-0.00012
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	0.00028	0.00028	0.00028

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X1H7H	(A0 * A1 * B1 * YN)	0.00011	0.00012	0.00012
	(A0 * A1 * B1 * YN)	0.00002	0.00003	0.00003
	(A0 * A1 * B1 * YN)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * B1 * YN)	-0.00031	-0.00030	-0.00030
	(A0 * A1 * !B1 * YN)	0.00015	0.00015	0.00015
	(A0 * A1 * !B1 * YN)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * YN)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B1 * YN)	-0.00027	-0.00026	-0.00024
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	0.00014	0.00015	0.00015
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	0.00003	0.00003	0.00003
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	-0.00028	-0.00028	-0.00028

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X1H7H	(A0 * A1 * B0 * YN)	-0.00014	-0.00013	-0.00011
	(A0 * A1 * B0 * YN)	-0.00003	-0.00003	-0.00002
	(A0 * A1 * B0 * YN)	0.00000	0.00001	0.00001
	(A0 * A1 * B0 * YN)	0.00031	0.00032	0.00032
	(A0 * A1 * !B0 * YN)	-0.00018	-0.00017	-0.00017
	(A0 * A1 * !B0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * YN)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * YN)	0.00028	0.00028	0.00028
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	-0.00005	-0.00005	-0.00005
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	-0.00004	-0.00004	-0.00004
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	0.00000	0.00001	0.00001
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	0.00034	0.00034	0.00034

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X1H7H	(A0 * A1 * B0 * YN)	0.00014	0.00014	0.00014
	(A0 * A1 * B0 * YN)	0.00003	0.00003	0.00003
	(A0 * A1 * B0 * YN)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * B0 * YN)	-0.00032	-0.00032	-0.00031
	(A0 * A1 * !B0 * YN)	0.00017	0.00017	0.00018
	(A0 * A1 * !B0 * YN)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * YN)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * YN)	-0.00028	-0.00027	-0.00025
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	0.00005	0.00005	0.00005
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	0.00004	0.00004	0.00004
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	-0.00034	-0.00034	-0.00034

OAI2BB2X1P4H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI2BB2 cell provides the logical inverted AND of one OR group of two inverted inputs (A0N, A1N) and one OR group of two non-inverted inputs (B0, B1). The output (Y) is represented by the logic equation:

Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	YN
x	x	0	0	1
0	x	x	1	0
0	x	1	x	0
1	0	x	1	0
1	0	1	x	0
1	1	x	1	1
1	1	1	x	1

Footprint

Cell Name	Area
OAI2BB2X1P4H7H	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	B1	YN
OAI2BB2X1P4H7H	0.00094	0.00086	0.00098	0.00107	0.02361

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI2BB2X1P4H7H	0.00000	0.02269	0.03398

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2BB2X1P4H7H	A0->YN (RR)	0.07755	0.19123	0.45810
	A1->YN (RR)	0.07794	0.19360	0.46825
	B0->YN (FR)	0.04916	0.23004	0.75042
	B1->YN (FR)	0.04619	0.22290	0.74131

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2BB2X1P4H7H	A0->YN (FF)	0.07593	0.21340	0.54189
	A1->YN (FF)	0.07782	0.21773	0.55229
	B0->YN (RF)	0.03761	0.17859	0.60251
	B1->YN (RF)	0.03463	0.17399	0.59932

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2BB2X1P4H7H	A0	0.00093	0.00101	0.00109
	A0	-0.00004	-0.00003	-0.00003
	A0	0.00001	0.00001	0.00002
	A0	0.00135	0.00143	0.00151
	A1	0.00096	0.00103	0.00110
	A1	-0.00003	-0.00003	-0.00003
	A1	-0.00003	-0.00003	-0.00002
	A1	0.00151	0.00159	0.00166
	B0	0.00104	0.00107	0.00110
	B0	-0.00016	-0.00016	-0.00013
	B0	0.00012	0.00012	0.00012
	B0	-0.00009	-0.00007	-0.00005
	B1	0.00084	0.00089	0.00093
	B1	-0.00008	-0.00008	-0.00008
	B1	0.00012	0.00012	0.00012
	B1	-0.00009	-0.00006	-0.00002

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2BB2X1P4H7H	A0	0.00140	0.00147	0.00154
	A0	0.00011	0.00011	0.00011
	A0	-0.00001	-0.00001	-0.00001
	A0	0.00094	0.00101	0.00108
	A1	0.00149	0.00155	0.00161
	A1	0.00010	0.00011	0.00011
	A1	0.00002	0.00003	0.00005
	A1	0.00093	0.00098	0.00104
	B0	0.00020	0.00022	0.00023
	B0	0.00016	0.00016	0.00016
	B0	-0.00012	-0.00012	-0.00012
	B0	0.00131	0.00137	0.00139
	B1	0.00016	0.00020	0.00022
	B1	0.00008	0.00009	0.00012
	B1	-0.00012	-0.00012	-0.00012
	B1	0.00116	0.00121	0.00123

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X1P4H7H	(A1 * !B0 * !B1 * YN)	0.00022	0.00024	0.00028
	(A1 * !B0 * !B1 * YN)	0.00005	0.00006	0.00006
	(A1 * !B0 * !B1 * YN)	-0.00005	-0.00005	-0.00005
	(A1 * !B0 * !B1 * YN)	0.00115	0.00118	0.00121
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	-0.00026	-0.00026	-0.00026
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	0.00002	0.00003	0.00003
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	0.00007	0.00007	0.00007

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X1P4H7H	(A1 * !B0 * !B1 * YN)	0.00093	0.00096	0.00099
	(A1 * !B0 * !B1 * YN)	-0.00006	-0.00006	-0.00005
	(A1 * !B0 * !B1 * YN)	0.00006	0.00006	0.00006
	(A1 * !B0 * !B1 * YN)	-0.00001	0.00002	0.00006
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	0.00026	0.00026	0.00026
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	-0.00003	-0.00002	-0.00002
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	-0.00007	-0.00007	-0.00006

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X1P4H7H	(A0 * !B0 * !B1 * YN)	0.00025	0.00026	0.00029
	(A0 * !B0 * !B1 * YN)	0.00006	0.00006	0.00006
	(A0 * !B0 * !B1 * YN)	-0.00009	-0.00009	-0.00009
	(A0 * !B0 * !B1 * YN)	0.00130	0.00132	0.00134
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	-0.00014	-0.00014	-0.00014
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	0.00001	0.00001	0.00002
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	0.00022	0.00023	0.00023

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X1P4H7H	(A0 * !B0 * !B1 * YN)	0.00102	0.00104	0.00106
	(A0 * !B0 * !B1 * YN)	-0.00006	-0.00006	-0.00006
	(A0 * !B0 * !B1 * YN)	0.00009	0.00009	0.00009
	(A0 * !B0 * !B1 * YN)	-0.00002	-0.00000	0.00002
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	0.00014	0.00015	0.00015
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	-0.00002	-0.00001	-0.00001
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	-0.00023	-0.00022	-0.00021

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X1P4H7H	(A0 * A1 * B1 * YN)	-0.00014	-0.00013	-0.00010
	(A0 * A1 * B1 * YN)	-0.00004	-0.00003	-0.00003
	(A0 * A1 * B1 * YN)	0.00001	0.00001	0.00001
	(A0 * A1 * B1 * YN)	0.00032	0.00032	0.00032
	(A0 * A1 * !B1 * YN)	-0.00017	-0.00017	-0.00017
	(A0 * A1 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * YN)	0.00002	0.00002	0.00002
	(A0 * A1 * !B1 * YN)	0.00028	0.00028	0.00028
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	-0.00016	-0.00015	-0.00013
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	0.00029	0.00030	0.00030

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X1P4H7H	(A0 * A1 * B1 * YN)	0.00013	0.00013	0.00014
	(A0 * A1 * B1 * YN)	0.00003	0.00003	0.00004
	(A0 * A1 * B1 * YN)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * B1 * YN)	-0.00032	-0.00032	-0.00032
	(A0 * A1 * !B1 * YN)	0.00017	0.00017	0.00018
	(A0 * A1 * !B1 * YN)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * YN)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B1 * YN)	-0.00028	-0.00027	-0.00025
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	0.00016	0.00016	0.00016
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	0.00003	0.00003	0.00003
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	-0.00029	-0.00029	-0.00029

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X1P4H7H	(A0 * A1 * B0 * YN)	-0.00016	-0.00015	-0.00013
	(A0 * A1 * B0 * YN)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * B0 * YN)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * YN)	0.00033	0.00033	0.00034
	(A0 * A1 * !B0 * YN)	-0.00020	-0.00020	-0.00020
	(A0 * A1 * !B0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * YN)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * YN)	0.00029	0.00029	0.00030
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	-0.00006	-0.00006	-0.00005
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	-0.00005	-0.00005	-0.00004
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	0.00000	0.00001	0.00001
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	0.00036	0.00036	0.00037

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X1P4H7H	(A0 * A1 * B0 * YN)	0.00016	0.00016	0.00016
	(A0 * A1 * B0 * YN)	0.00003	0.00003	0.00003
	(A0 * A1 * B0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B0 * YN)	-0.00033	-0.00033	-0.00033
	(A0 * A1 * !B0 * YN)	0.00020	0.00020	0.00020
	(A0 * A1 * !B0 * YN)	0.00001	0.00001	0.00002
	(A0 * A1 * !B0 * YN)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * YN)	-0.00029	-0.00028	-0.00026
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	0.00005	0.00006	0.00006
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	0.00005	0.00005	0.00005
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	-0.00037	-0.00036	-0.00036

OAI2BB2X2H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI2BB2 cell provides the logical inverted AND of one OR group of two inverted inputs (A0N, A1N) and one OR group of two non-inverted inputs (B0, B1). The output (Y) is represented by the logic equation:

Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	YN
x	x	0	0	1
0	x	x	1	0
0	x	1	x	0
1	0	x	1	0
1	0	1	x	0
1	1	x	1	1
1	1	1	x	1

Footprint

Cell Name	Area
OAI2BB2X2H7H	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	B1	YN
OAI2BB2X2H7H	0.00095	0.00088	0.00108	0.00117	0.02731

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI2BB2X2H7H	0.00000	0.02832	0.04438

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2BB2X2H7H	A0->YN (RR)	0.07857	0.19368	0.46369
	A1->YN (RR)	0.07901	0.19581	0.47316
	B0->YN (FR)	0.04680	0.22880	0.75345
	B1->YN (FR)	0.04344	0.22116	0.74263

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2BB2X2H7H	A0->YN (FF)	0.07588	0.21332	0.54180
	A1->YN (FF)	0.07776	0.21760	0.55252
	B0->YN (RF)	0.03577	0.17550	0.59960
	B1->YN (RF)	0.03258	0.17059	0.59520

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2BB2X2H7H	A0	0.00106	0.00114	0.00123
	A0	-0.00006	-0.00005	-0.00005
	A0	0.00002	0.00002	0.00002
	A0	0.00140	0.00149	0.00158
	A1	0.00109	0.00116	0.00124
	A1	-0.00005	-0.00005	-0.00005
	A1	-0.00002	-0.00002	-0.00002
	A1	0.00158	0.00165	0.00173
	B0	0.00117	0.00122	0.00125
	B0	-0.00019	-0.00019	-0.00019
	B0	0.00014	0.00014	0.00014
	B0	-0.00012	-0.00009	-0.00007
	B1	0.00092	0.00100	0.00104
	B1	-0.00010	-0.00010	-0.00010
	B1	0.00014	0.00014	0.00014
	B1	-0.00012	-0.00008	-0.00004

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2BB2X2H7H	A0	0.00145	0.00152	0.00161
	A0	0.00014	0.00014	0.00015
	A0	-0.00002	-0.00002	-0.00001
	A0	0.00106	0.00114	0.00122
	A1	0.00155	0.00161	0.00168
	A1	0.00013	0.00014	0.00014
	A1	0.00002	0.00002	0.00002
	A1	0.00105	0.00110	0.00116
	B0	0.00021	0.00023	0.00025
	B0	0.00019	0.00019	0.00019
	B0	-0.00014	-0.00014	-0.00014
	B0	0.00152	0.00156	0.00158
	B1	0.00017	0.00021	0.00024
	B1	0.00010	0.00010	0.00010
	B1	-0.00014	-0.00014	-0.00014
	B1	0.00131	0.00135	0.00139

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X2H7H	(A1 * !B0 * !B1 * YN)	0.00026	0.00028	0.00031
	(A1 * !B0 * !B1 * YN)	0.00006	0.00006	0.00007
	(A1 * !B0 * !B1 * YN)	-0.00006	-0.00006	-0.00006
	(A1 * !B0 * !B1 * YN)	0.00121	0.00123	0.00126
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	-0.00026	-0.00026	-0.00026
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	0.00002	0.00003	0.00004
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	0.00006	0.00007	0.00008

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X2H7H	(A1 * !B0 * !B1 * YN)	0.00095	0.00097	0.00101
	(A1 * !B0 * !B1 * YN)	-0.00007	-0.00006	-0.00006
	(A1 * !B0 * !B1 * YN)	0.00006	0.00006	0.00007
	(A1 * !B0 * !B1 * YN)	-0.00001	0.00002	0.00005
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	0.00026	0.00026	0.00026
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	-0.00004	-0.00003	-0.00002
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	-0.00007	-0.00007	-0.00006

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X2H7H	(A0 * !B0 * !B1 * YN)	0.00029	0.00030	0.00032
	(A0 * !B0 * !B1 * YN)	0.00006	0.00007	0.00007
	(A0 * !B0 * !B1 * YN)	-0.00010	-0.00010	-0.00010
	(A0 * !B0 * !B1 * YN)	0.00137	0.00138	0.00140
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	-0.00014	-0.00014	-0.00014
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	0.00000	0.00001	0.00001
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	0.00024	0.00024	0.00024

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X2H7H	(A0 * !B0 * !B1 * YN)	0.00104	0.00106	0.00108
	(A0 * !B0 * !B1 * YN)	-0.00006	-0.00006	-0.00006
	(A0 * !B0 * !B1 * YN)	0.00010	0.00010	0.00010
	(A0 * !B0 * !B1 * YN)	-0.00003	-0.00001	0.00001
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	0.00014	0.00015	0.00015
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	-0.00024	-0.00023	-0.00021

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X2H7H	(A0 * A1 * B1 * YN)	-0.00016	-0.00015	-0.00013
	(A0 * A1 * B1 * YN)	-0.00004	-0.00003	-0.00002
	(A0 * A1 * B1 * YN)	0.00001	0.00001	0.00001
	(A0 * A1 * B1 * YN)	0.00034	0.00034	0.00035
	(A0 * A1 * !B1 * YN)	-0.00020	-0.00020	-0.00020
	(A0 * A1 * !B1 * YN)	-0.00002	-0.00001	-0.00001
	(A0 * A1 * !B1 * YN)	0.00002	0.00002	0.00002
	(A0 * A1 * !B1 * YN)	0.00030	0.00030	0.00030
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	-0.00019	-0.00017	-0.00015
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	-0.00004	-0.00003	-0.00003
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	0.00032	0.00032	0.00033

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X2H7H	(A0 * A1 * B1 * YN)	0.00015	0.00016	0.00017
	(A0 * A1 * B1 * YN)	0.00002	0.00003	0.00004
	(A0 * A1 * B1 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B1 * YN)	-0.00035	-0.00034	-0.00034
	(A0 * A1 * !B1 * YN)	0.00020	0.00020	0.00021
	(A0 * A1 * !B1 * YN)	0.00001	0.00001	0.00002
	(A0 * A1 * !B1 * YN)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B1 * YN)	-0.00030	-0.00029	-0.00027
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	0.00019	0.00019	0.00019
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	0.00003	0.00003	0.00004
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	-0.00032	-0.00032	-0.00032

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X2H7H	(A0 * A1 * B0 * YN)	-0.00019	-0.00017	-0.00015
	(A0 * A1 * B0 * YN)	-0.00004	-0.00003	-0.00003
	(A0 * A1 * B0 * YN)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * YN)	0.00036	0.00036	0.00036
	(A0 * A1 * !B0 * YN)	-0.00023	-0.00023	-0.00022
	(A0 * A1 * !B0 * YN)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * !B0 * YN)	0.00002	0.00003	0.00003
	(A0 * A1 * !B0 * YN)	0.00031	0.00032	0.00032
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	-0.00006	-0.00006	-0.00006
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	-0.00005	-0.00005	-0.00005
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	0.00040	0.00040	0.00040

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X2H7H	(A0 * A1 * B0 * YN)	0.00018	0.00019	0.00019
	(A0 * A1 * B0 * YN)	0.00003	0.00004	0.00004
	(A0 * A1 * B0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B0 * YN)	-0.00036	-0.00036	-0.00036
	(A0 * A1 * !B0 * YN)	0.00023	0.00023	0.00023
	(A0 * A1 * !B0 * YN)	0.00001	0.00002	0.00002
	(A0 * A1 * !B0 * YN)	-0.00003	-0.00003	-0.00002
	(A0 * A1 * !B0 * YN)	-0.00032	-0.00030	-0.00028
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	0.00006	0.00006	0.00006
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	0.00005	0.00006	0.00006
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	-0.00040	-0.00040	-0.00039

OAI2BB2X3H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI2BB2 cell provides the logical inverted AND of one OR group of two inverted inputs (A0N, A1N) and one OR group of two non-inverted inputs (B0, B1). The output (Y) is represented by the logic equation:

Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	YN
x	x	0	0	1
0	x	x	1	0
0	x	1	x	0
1	0	x	1	0
1	0	1	x	0
1	1	x	1	1
1	1	1	x	1

Footprint

Cell Name	Area
OAI2BB2X3H7H	3.64000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	B1	YN
OAI2BB2X3H7H	0.00106	0.00096	0.00175	0.00199	0.04281

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI2BB2X3H7H	0.00000	0.03771	0.04429

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2BB2X3H7H	A0->YN (RR)	0.08165	0.20067	0.48120
	A1->YN (RR)	0.08288	0.20447	0.49337
	B0->YN (FR)	0.04749	0.22846	0.74940
	B1->YN (FR)	0.04315	0.21945	0.73979

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2BB2X3H7H	A0->YN (FF)	0.07726	0.21791	0.55337
	A1->YN (FF)	0.07925	0.22188	0.56249
	B0->YN (RF)	0.03688	0.17593	0.59658
	B1->YN (RF)	0.03300	0.16995	0.59150

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2BB2X3H7H	A0	0.00197	0.00209	0.00223
	A0	-0.00008	-0.00007	-0.00007
	A0	0.00002	0.00003	0.00004
	A0	0.00213	0.00224	0.00239
	A1	0.00199	0.00211	0.00224
	A1	-0.00007	-0.00007	-0.00006
	A1	-0.00002	-0.00002	-0.00001
	A1	0.00232	0.00244	0.00256
	B0	0.00206	0.00213	0.00218
	B0	-0.00029	-0.00028	-0.00028
	B0	0.00021	0.00022	0.00022
	B0	-0.00016	-0.00011	-0.00007
	B1	0.00159	0.00169	0.00177
	B1	-0.00015	-0.00015	-0.00014
	B1	0.00021	0.00021	0.00022
	B1	-0.00023	-0.00016	-0.00010

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2BB2X3H7H	A0	0.00208	0.00220	0.00232
	A0	0.00021	0.00021	0.00021
	A0	-0.00003	-0.00003	-0.00002
	A0	0.00184	0.00196	0.00209
	A1	0.00221	0.00232	0.00242
	A1	0.00021	0.00021	0.00021
	A1	0.00002	0.00002	0.00002
	A1	0.00183	0.00194	0.00205
	B0	0.00039	0.00043	0.00046
	B0	0.00028	0.00028	0.00029
	B0	-0.00022	-0.00022	-0.00021
	B0	0.00264	0.00269	0.00273
	B1	0.00034	0.00041	0.00046
	B1	0.00015	0.00015	0.00016
	B1	-0.00022	-0.00021	-0.00021
	B1	0.00232	0.00238	0.00243

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X3H7H	(A1 * !B0 * !B1 * YN)	0.00054	0.00056	0.00060
	(A1 * !B0 * !B1 * YN)	0.00009	0.00010	0.00010
	(A1 * !B0 * !B1 * YN)	-0.00009	-0.00009	-0.00008
	(A1 * !B0 * !B1 * YN)	0.00169	0.00172	0.00175
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	-0.00030	-0.00030	-0.00030
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	0.00003	0.00004	0.00005
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	0.00006	0.00006	0.00007

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X3H7H	(A1 * !B0 * !B1 * YN)	0.00117	0.00120	0.00123
	(A1 * !B0 * !B1 * YN)	-0.00010	-0.00010	-0.00009
	(A1 * !B0 * !B1 * YN)	0.00009	0.00009	0.00009
	(A1 * !B0 * !B1 * YN)	0.00001	0.00004	0.00008
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	0.00030	0.00030	0.00030
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	-0.00003	-0.00003	-0.00003
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	-0.00007	-0.00006	-0.00006

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X3H7H	(A0 * !B0 * !B1 * YN)	0.00057	0.00058	0.00060
	(A0 * !B0 * !B1 * YN)	0.00010	0.00010	0.00011
	(A0 * !B0 * !B1 * YN)	-0.00014	-0.00014	-0.00014
	(A0 * !B0 * !B1 * YN)	0.00187	0.00188	0.00191
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	-0.00018	-0.00018	-0.00018
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	0.00001	0.00001	0.00002
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	0.00023	0.00024	0.00024

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X3H7H	(A0 * !B0 * !B1 * YN)	0.00129	0.00131	0.00134
	(A0 * !B0 * !B1 * YN)	-0.00010	-0.00010	-0.00010
	(A0 * !B0 * !B1 * YN)	0.00014	0.00014	0.00014
	(A0 * !B0 * !B1 * YN)	0.00000	0.00002	0.00004
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	0.00018	0.00019	0.00019
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	-0.00002	-0.00001	-0.00001
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	-0.00023	-0.00022	-0.00020

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X3H7H	(A0 * A1 * B1 * YN)	-0.00027	-0.00024	-0.00020
	(A0 * A1 * B1 * YN)	-0.00005	-0.00005	-0.00004
	(A0 * A1 * B1 * YN)	0.00001	0.00001	0.00001
	(A0 * A1 * B1 * YN)	0.00063	0.00063	0.00063
	(A0 * A1 * !B1 * YN)	-0.00035	-0.00035	-0.00035
	(A0 * A1 * !B1 * YN)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B1 * YN)	0.00004	0.00004	0.00004
	(A0 * A1 * !B1 * YN)	0.00053	0.00054	0.00054
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	-0.00032	-0.00029	-0.00025
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	-0.00005	-0.00005	-0.00005
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	0.00058	0.00059	0.00060

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X3H7H	(A0 * A1 * B1 * YN)	0.00027	0.00027	0.00028
	(A0 * A1 * B1 * YN)	0.00004	0.00005	0.00005
	(A0 * A1 * B1 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B1 * YN)	-0.00063	-0.00063	-0.00062
	(A0 * A1 * !B1 * YN)	0.00035	0.00035	0.00036
	(A0 * A1 * !B1 * YN)	0.00002	0.00003	0.00003
	(A0 * A1 * !B1 * YN)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * !B1 * YN)	-0.00054	-0.00052	-0.00049
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	0.00031	0.00032	0.00032
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	0.00005	0.00005	0.00005
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	-0.00058	-0.00058	-0.00057

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X3H7H	(A0 * A1 * B0 * YN)	-0.00032	-0.00029	-0.00024
	(A0 * A1 * B0 * YN)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * B0 * YN)	0.00001	0.00001	0.00002
	(A0 * A1 * B0 * YN)	0.00068	0.00068	0.00069
	(A0 * A1 * !B0 * YN)	-0.00040	-0.00040	-0.00039
	(A0 * A1 * !B0 * YN)	-0.00003	-0.00002	-0.00002
	(A0 * A1 * !B0 * YN)	0.00004	0.00004	0.00004
	(A0 * A1 * !B0 * YN)	0.00056	0.00057	0.00058
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	-0.00008	-0.00008	-0.00008
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	-0.00008	-0.00007	-0.00007
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	0.00078	0.00078	0.00078

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X3H7H	(A0 * A1 * B0 * YN)	0.00031	0.00032	0.00032
	(A0 * A1 * B0 * YN)	0.00005	0.00005	0.00005
	(A0 * A1 * B0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B0 * YN)	-0.00068	-0.00067	-0.00067
	(A0 * A1 * !B0 * YN)	0.00040	0.00040	0.00040
	(A0 * A1 * !B0 * YN)	0.00002	0.00003	0.00003
	(A0 * A1 * !B0 * YN)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * !B0 * YN)	-0.00058	-0.00055	-0.00050
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	0.00008	0.00008	0.00008
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	0.00008	0.00008	0.00008
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	-0.00078	-0.00077	-0.00077

OAI2BB2X4H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI2BB2 cell provides the logical inverted AND of one OR group of two inverted inputs (A0N, A1N) and one OR group of two non-inverted inputs (B0, B1). The output (Y) is represented by the logic equation:

Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	YN
x	x	0	0	1
0	x	x	1	0
0	x	1	x	0
1	0	x	1	0
1	0	1	x	0
1	1	x	1	1
1	1	1	x	1

Footprint

Cell Name	Area
OAI2BB2X4H7H	3.92000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	B1	YN
OAI2BB2X4H7H	0.00112	0.00103	0.00204	0.00228	0.05372

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI2BB2X4H7H	0.00000	0.05542	0.08353

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2BB2X4H7H	A0->YN (RR)	0.07737	0.19621	0.47560
	A1->YN (RR)	0.07891	0.20079	0.48970
	B0->YN (FR)	0.04374	0.22602	0.75186
	B1->YN (FR)	0.03900	0.21649	0.74024

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2BB2X4H7H	A0->YN (FF)	0.07402	0.21494	0.55092
	A1->YN (FF)	0.07621	0.21911	0.56049
	B0->YN (RF)	0.03445	0.17347	0.59721
	B1->YN (RF)	0.03029	0.16704	0.59233

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2BB2X4H7H	A0	0.00233	0.00246	0.00262
	A0	-0.00012	-0.00011	-0.00010
	A0	0.00004	0.00005	0.00006
	A0	0.00232	0.00245	0.00261
	A1	0.00235	0.00248	0.00263
	A1	-0.00011	-0.00011	-0.00011
	A1	-0.00001	-0.00001	-0.00001
	A1	0.00255	0.00268	0.00283
	B0	0.00248	0.00253	0.00260
	B0	-0.00038	-0.00038	-0.00037
	B0	0.00028	0.00028	0.00028
	B0	-0.00023	-0.00017	-0.00013
	B1	0.00178	0.00196	0.00205
	B1	-0.00021	-0.00020	-0.00020
	B1	0.00028	0.00028	0.00029
	B1	-0.00029	-0.00021	-0.00014

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2BB2X4H7H	A0	0.00227	0.00241	0.00254
	A0	0.00029	0.00029	0.00030
	A0	-0.00005	-0.00005	-0.00003
	A0	0.00216	0.00230	0.00244
	A1	0.00242	0.00254	0.00266
	A1	0.00029	0.00030	0.00030
	A1	0.00001	0.00001	0.00001
	A1	0.00215	0.00227	0.00239
	B0	0.00041	0.00046	0.00050
	B0	0.00037	0.00038	0.00038
	B0	-0.00028	-0.00028	-0.00028
	B0	0.00310	0.00317	0.00322
	B1	0.00034	0.00043	0.00049
	B1	0.00020	0.00021	0.00022
	B1	-0.00029	-0.00028	-0.00028
	B1	0.00266	0.00274	0.00281

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X4H7H	(A1 * !B0 * !B1 * YN)	0.00063	0.00066	0.00071
	(A1 * !B0 * !B1 * YN)	0.00010	0.00011	0.00011
	(A1 * !B0 * !B1 * YN)	-0.00011	-0.00011	-0.00011
	(A1 * !B0 * !B1 * YN)	0.00189	0.00192	0.00196
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	-0.00033	-0.00032	-0.00032
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	0.00002	0.00004	0.00005
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	0.00006	0.00006	0.00008

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X4H7H	(A1 * !B0 * !B1 * YN)	0.00125	0.00128	0.00132
	(A1 * !B0 * !B1 * YN)	-0.00011	-0.00011	-0.00010
	(A1 * !B0 * !B1 * YN)	0.00011	0.00012	0.00012
	(A1 * !B0 * !B1 * YN)	-0.00002	0.00001	0.00005
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	0.00032	0.00033	0.00033
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	-0.00004	-0.00003	-0.00002
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X4H7H	(A0 * !B0 * !B1 * YN)	0.00066	0.00068	0.00072
	(A0 * !B0 * !B1 * YN)	0.00010	0.00011	0.00011
	(A0 * !B0 * !B1 * YN)	-0.00017	-0.00017	-0.00017
	(A0 * !B0 * !B1 * YN)	0.00210	0.00212	0.00215
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	-0.00020	-0.00020	-0.00020
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	0.00001	0.00002	0.00002
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	0.00026	0.00026	0.00026

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X4H7H	(A0 * !B0 * !B1 * YN)	0.00139	0.00141	0.00144
	(A0 * !B0 * !B1 * YN)	-0.00011	-0.00011	-0.00010
	(A0 * !B0 * !B1 * YN)	0.00017	0.00017	0.00017
	(A0 * !B0 * !B1 * YN)	-0.00004	-0.00002	0.00001
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	0.00020	0.00021	0.00021
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	-0.00002	-0.00002	-0.00001
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	-0.00025	-0.00024	-0.00023

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X4H7H	(A0 * A1 * B1 * YN)	-0.00035	-0.00031	-0.00026
	(A0 * A1 * B1 * YN)	-0.00007	-0.00007	-0.00005
	(A0 * A1 * B1 * YN)	0.00001	0.00001	0.00002
	(A0 * A1 * B1 * YN)	0.00068	0.00068	0.00069
	(A0 * A1 * !B1 * YN)	-0.00045	-0.00045	-0.00044
	(A0 * A1 * !B1 * YN)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B1 * YN)	0.00005	0.00005	0.00005
	(A0 * A1 * !B1 * YN)	0.00058	0.00059	0.00059
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	-0.00039	-0.00036	-0.00030
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	-0.00007	-0.00007	-0.00006
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	0.00001	0.00001	0.00002
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	0.00064	0.00064	0.00065

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X4H7H	(A0 * A1 * B1 * YN)	0.00034	0.00035	0.00036
	(A0 * A1 * B1 * YN)	0.00005	0.00007	0.00007
	(A0 * A1 * B1 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B1 * YN)	-0.00068	-0.00068	-0.00068
	(A0 * A1 * !B1 * YN)	0.00045	0.00045	0.00046
	(A0 * A1 * !B1 * YN)	0.00003	0.00003	0.00003
	(A0 * A1 * !B1 * YN)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * !B1 * YN)	-0.00059	-0.00056	-0.00052
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	0.00039	0.00039	0.00039
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	0.00006	0.00007	0.00007
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	-0.00064	-0.00064	-0.00063

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X4H7H	(A0 * A1 * B0 * YN)	-0.00039	-0.00036	-0.00030
	(A0 * A1 * B0 * YN)	-0.00007	-0.00007	-0.00006
	(A0 * A1 * B0 * YN)	0.00001	0.00002	0.00002
	(A0 * A1 * B0 * YN)	0.00072	0.00072	0.00073
	(A0 * A1 * !B0 * YN)	-0.00050	-0.00049	-0.00049
	(A0 * A1 * !B0 * YN)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B0 * YN)	0.00005	0.00005	0.00005
	(A0 * A1 * !B0 * YN)	0.00060	0.00060	0.00061
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	-0.00009	-0.00009	-0.00009
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	-0.00010	-0.00010	-0.00009
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	0.00001	0.00002	0.00002
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	0.00084	0.00085	0.00085

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X4H7H	(A0 * A1 * B0 * YN)	0.00039	0.00039	0.00039
	(A0 * A1 * B0 * YN)	0.00007	0.00007	0.00007
	(A0 * A1 * B0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B0 * YN)	-0.00072	-0.00072	-0.00071
	(A0 * A1 * !B0 * YN)	0.00050	0.00050	0.00050
	(A0 * A1 * !B0 * YN)	0.00003	0.00003	0.00004
	(A0 * A1 * !B0 * YN)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * !B0 * YN)	-0.00061	-0.00057	-0.00052
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	0.00009	0.00009	0.00009
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	0.00010	0.00010	0.00010
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	-0.00085	-0.00084	-0.00084

OAI2BB2X6H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI2BB2 cell provides the logical inverted AND of one OR group of two inverted inputs (A0N, A1N) and one OR group of two non-inverted inputs (B0, B1). The output (Y) is represented by the logic equation:

Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	YN
x	x	0	0	1
0	x	x	1	0
0	x	1	x	0
1	0	x	1	0
1	0	1	x	0
1	1	x	1	1
1	1	1	x	1

Footprint

Cell Name	Area
OAI2BB2X6H7H	5.60000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	B1	YN
OAI2BB2X6H7H	0.00122	0.00113	0.00300	0.00320	0.08105

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI2BB2X6H7H	0.00000	0.08217	0.12534

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2BB2X6H7H	A0->YN (RR)	0.08417	0.20863	0.50189
	A1->YN (RR)	0.08585	0.21293	0.51442
	B0->YN (FR)	0.04080	0.22354	0.75199
	B1->YN (FR)	0.03542	0.21308	0.74010

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2BB2X6H7H	A0->YN (FF)	0.07878	0.22517	0.57573
	A1->YN (FF)	0.08089	0.22907	0.58463
	B0->YN (RF)	0.03357	0.17295	0.59917
	B1->YN (RF)	0.02876	0.16578	0.59320

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2BB2X6H7H	A0	0.00342	0.00361	0.00384
	A0	-0.00019	-0.00018	-0.00018
	A0	0.00006	0.00008	0.00010
	A0	0.00301	0.00320	0.00343
	A1	0.00345	0.00363	0.00385
	A1	-0.00019	-0.00018	-0.00018
	A1	0.00000	0.00000	0.00001
	A1	0.00328	0.00346	0.00367
	B0	0.00357	0.00366	0.00374
	B0	-0.00057	-0.00057	-0.00056
	B0	0.00042	0.00043	0.00043
	B0	-0.00044	-0.00037	-0.00030
	B1	0.00253	0.00274	0.00286
	B1	-0.00031	-0.00031	-0.00030
	B1	0.00042	0.00042	0.00043
	B1	-0.00051	-0.00039	-0.00029

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2BB2X6H7H	A0	0.00306	0.00325	0.00343
	A0	0.00046	0.00047	0.00049
	A0	-0.00008	-0.00008	-0.00006
	A0	0.00330	0.00349	0.00368
	A1	0.00324	0.00340	0.00357
	A1	0.00046	0.00046	0.00047
	A1	0.00000	0.00000	0.00000
	A1	0.00329	0.00345	0.00363
	B0	0.00061	0.00069	0.00076
	B0	0.00056	0.00057	0.00057
	B0	-0.00043	-0.00043	-0.00042
	B0	0.00463	0.00472	0.00479
	B1	0.00052	0.00065	0.00075
	B1	0.00030	0.00031	0.00032
	B1	-0.00043	-0.00042	-0.00042
	B1	0.00385	0.00396	0.00406

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X6H7H	(A1 * !B0 * !B1 * YN)	0.00098	0.00102	0.00107
	(A1 * !B0 * !B1 * YN)	0.00014	0.00015	0.00015
	(A1 * !B0 * !B1 * YN)	-0.00017	-0.00016	-0.00016
	(A1 * !B0 * !B1 * YN)	0.00248	0.00251	0.00255
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	-0.00037	-0.00037	-0.00036
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	0.00003	0.00004	0.00005
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	0.00006	0.00006	0.00007

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X6H7H	(A1 * !B0 * !B1 * YN)	0.00154	0.00158	0.00164
	(A1 * !B0 * !B1 * YN)	-0.00015	-0.00015	-0.00014
	(A1 * !B0 * !B1 * YN)	0.00017	0.00017	0.00017
	(A1 * !B0 * !B1 * YN)	0.00004	0.00008	0.00012
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	0.00037	0.00037	0.00037
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	0.00001	0.00002	0.00002
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	-0.00004	-0.00004	-0.00003
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	-0.00006	-0.00006	-0.00005

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X6H7H	(A0 * !B0 * !B1 * YN)	0.00101	0.00104	0.00107
	(A0 * !B0 * !B1 * YN)	0.00014	0.00015	0.00016
	(A0 * !B0 * !B1 * YN)	-0.00024	-0.00024	-0.00023
	(A0 * !B0 * !B1 * YN)	0.00271	0.00274	0.00278
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	-0.00024	-0.00024	-0.00024
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	-0.00002	-0.00002	-0.00001
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	0.00002	0.00002	0.00003
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	0.00027	0.00027	0.00027

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X6H7H	(A0 * !B0 * !B1 * YN)	0.00171	0.00174	0.00177
	(A0 * !B0 * !B1 * YN)	-0.00015	-0.00015	-0.00014
	(A0 * !B0 * !B1 * YN)	0.00023	0.00024	0.00024
	(A0 * !B0 * !B1 * YN)	0.00002	0.00005	0.00008
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	0.00024	0.00024	0.00025
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	0.00001	0.00002	0.00002
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	-0.00003	-0.00002	-0.00002
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	-0.00027	-0.00025	-0.00022

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X6H7H	(A0 * A1 * B1 * YN)	-0.00052	-0.00047	-0.00040
	(A0 * A1 * B1 * YN)	-0.00011	-0.00010	-0.00009
	(A0 * A1 * B1 * YN)	0.00002	0.00002	0.00003
	(A0 * A1 * B1 * YN)	0.00101	0.00102	0.00103
	(A0 * A1 * !B1 * YN)	-0.00068	-0.00068	-0.00067
	(A0 * A1 * !B1 * YN)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * !B1 * YN)	0.00007	0.00007	0.00008
	(A0 * A1 * !B1 * YN)	0.00087	0.00088	0.00088
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	-0.00059	-0.00053	-0.00045
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	-0.00011	-0.00011	-0.00010
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	0.00002	0.00002	0.00002
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	0.00096	0.00096	0.00097

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X6H7H	(A0 * A1 * B1 * YN)	0.00051	0.00052	0.00053
	(A0 * A1 * B1 * YN)	0.00009	0.00010	0.00011
	(A0 * A1 * B1 * YN)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * B1 * YN)	-0.00102	-0.00101	-0.00100
	(A0 * A1 * !B1 * YN)	0.00067	0.00068	0.00068
	(A0 * A1 * !B1 * YN)	0.00004	0.00004	0.00005
	(A0 * A1 * !B1 * YN)	-0.00008	-0.00007	-0.00007
	(A0 * A1 * !B1 * YN)	-0.00088	-0.00084	-0.00077
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	0.00058	0.00058	0.00059
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	0.00010	0.00011	0.00011
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	-0.00096	-0.00095	-0.00095

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X6H7H	(A0 * A1 * B0 * YN)	-0.00057	-0.00051	-0.00042
	(A0 * A1 * B0 * YN)	-0.00011	-0.00010	-0.00010
	(A0 * A1 * B0 * YN)	0.00002	0.00003	0.00003
	(A0 * A1 * B0 * YN)	0.00100	0.00101	0.00101
	(A0 * A1 * !B0 * YN)	-0.00073	-0.00072	-0.00072
	(A0 * A1 * !B0 * YN)	-0.00005	-0.00004	-0.00004
	(A0 * A1 * !B0 * YN)	0.00007	0.00008	0.00008
	(A0 * A1 * !B0 * YN)	0.00084	0.00085	0.00086
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	-0.00010	-0.00010	-0.00009
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	-0.00015	-0.00015	-0.00015
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	0.00002	0.00002	0.00003
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	0.00120	0.00121	0.00121

Passive power(pJ) for B1 falling (conditional):

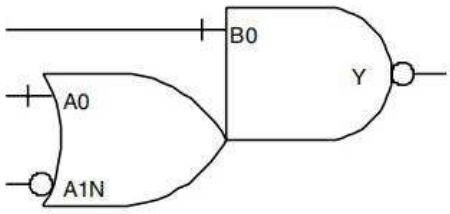
Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X6H7H	(A0 * A1 * B0 * YN)	0.00056	0.00057	0.00057
	(A0 * A1 * B0 * YN)	0.00010	0.00011	0.00011
	(A0 * A1 * B0 * YN)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * B0 * YN)	-0.00101	-0.00100	-0.00099
	(A0 * A1 * !B0 * YN)	0.00073	0.00073	0.00073
	(A0 * A1 * !B0 * YN)	0.00004	0.00005	0.00005
	(A0 * A1 * !B0 * YN)	-0.00008	-0.00008	-0.00007
	(A0 * A1 * !B0 * YN)	-0.00085	-0.00081	-0.00074
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	0.00010	0.00010	0.00010
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	0.00016	0.00016	0.00016
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	-0.00121	-0.00120	-0.00119

OAI2XB1X0P5H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI2XB1 cell provides the logical inverted AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1N	B0	Y
x	x	0	1
x	0	1	0
0	1	1	1
1	1	1	0

Footprint

Cell Name	Area
OAI2XB1X0P5H7H	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1N	B0	Y
OAI2XB1X0P5H7H	0.00085	0.00092	0.00096	0.01492

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI2XB1X0P5H7H	0.00000	0.01453	0.01943

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2XB1X0P5H7H	A0->Y (FR)	0.07058	0.24676	0.74848
	A1N->Y (RR)	0.09339	0.24859	0.62405
	B0->Y (FR)	0.02909	0.14715	0.53927

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2XB1X0P5H7H	A0->Y (RF)	0.04479	0.17737	0.56881
	A1N->Y (FF)	0.08119	0.20673	0.50529
	B0->Y (RF)	0.03909	0.16734	0.57510

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2XB1X0P5H7H	A0	0.00118	0.00120	0.00123
	A0	-0.00010	-0.00010	-0.00009
	A0	0.00007	0.00007	0.00008
	A0	0.00017	0.00020	0.00022
	A1N	0.00098	0.00104	0.00110
	A1N	-0.00003	-0.00003	-0.00003
	A1N	0.00005	0.00005	0.00005
	A1N	0.00126	0.00131	0.00137
	B0	0.00091	0.00094	0.00098
	B0	-0.00005	-0.00005	-0.00005
	B0	0.00001	0.00002	0.00003
	B0	0.00009	0.00013	0.00017

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2XB1X0P5H7H	A0	-0.00009	-0.00007	-0.00006
	A0	0.00009	0.00010	0.00010
	A0	-0.00008	-0.00007	-0.00007
	A0	0.00091	0.00096	0.00097
	A1N	0.00114	0.00119	0.00123
	A1N	0.00003	0.00003	0.00003
	A1N	-0.00005	-0.00005	-0.00005
	A1N	0.00091	0.00096	0.00100
	B0	-0.00000	0.00003	0.00006
	B0	0.00009	0.00010	0.00010
	B0	-0.00002	-0.00002	-0.00001
	B0	0.00072	0.00076	0.00080

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X0P5H7H	(A1N * !B0 * Y)	-0.00013	-0.00013	-0.00013
	(A1N * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1N * !B0 * Y)	0.00001	0.00001	0.00002
	(A1N * !B0 * Y)	0.00028	0.00028	0.00028
	(!A1N * B0 * !Y)	-0.00014	-0.00014	-0.00013
	(!A1N * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1N * B0 * !Y)	0.00000	0.00000	0.00000
	(!A1N * B0 * !Y)	0.00028	0.00029	0.00029
	(!A1N * !B0 * Y)	-0.00016	-0.00016	-0.00015
	(!A1N * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1N * !B0 * Y)	0.00000	0.00000	0.00001
	(!A1N * !B0 * Y)	0.00026	0.00026	0.00026

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X0P5H7H	(A1N * !B0 * Y)	0.00013	0.00013	0.00013
	(A1N * !B0 * Y)	0.00001	0.00001	0.00001
	(A1N * !B0 * Y)	-0.00002	-0.00001	-0.00001
	(A1N * !B0 * Y)	-0.00028	-0.00027	-0.00025
	(!A1N * B0 * !Y)	0.00014	0.00014	0.00014
	(!A1N * B0 * !Y)	0.00002	0.00002	0.00002
	(!A1N * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1N * B0 * !Y)	-0.00028	-0.00028	-0.00028
	(!A1N * !B0 * Y)	0.00016	0.00016	0.00016
	(!A1N * !B0 * Y)	0.00002	0.00002	0.00002
	(!A1N * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1N * !B0 * Y)	-0.00026	-0.00026	-0.00026

Passive power(pJ) for A1N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X0P5H7H	(A0 * B0 * !Y)	-0.00012	-0.00010	-0.00007
	(A0 * B0 * !Y)	0.00005	0.00005	0.00005
	(A0 * B0 * !Y)	-0.00003	-0.00003	-0.00002
	(A0 * B0 * !Y)	0.00067	0.00069	0.00072
	(!B0 * Y)	0.00004	0.00006	0.00009
	(!B0 * Y)	0.00004	0.00004	0.00004
	(!B0 * Y)	-0.00002	-0.00002	-0.00002
	(!B0 * Y)	0.00082	0.00084	0.00087

Passive power(pJ) for A1N falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X0P5H7H	(A0 * B0 * !Y)	0.00097	0.00100	0.00103
	(A0 * B0 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * B0 * !Y)	0.00002	0.00003	0.00003
	(A0 * B0 * !Y)	0.00019	0.00021	0.00023
	(!B0 * Y)	0.00085	0.00087	0.00090
	(!B0 * Y)	-0.00004	-0.00004	-0.00004
	(!B0 * Y)	0.00002	0.00003	0.00002
	(!B0 * Y)	0.00007	0.00009	0.00012

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X0P5H7H	(!A0 * A1N * Y)	-0.00026	-0.00026	-0.00026
	(!A0 * A1N * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1N * Y)	0.00002	0.00002	0.00002
	(!A0 * A1N * Y)	0.00010	0.00010	0.00011

Passive power(pJ) for B0 falling (conditional):

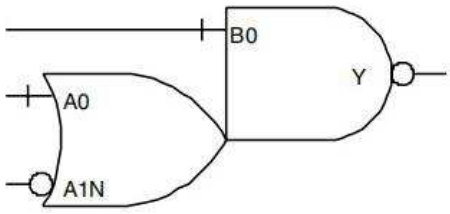
Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X0P5H7H	(!A0 * A1N * Y)	0.00026	0.00026	0.00026
	(!A0 * A1N * Y)	0.00001	0.00001	0.00001
	(!A0 * A1N * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1N * Y)	-0.00010	-0.00010	-0.00010

OAI2XB1X0P7H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI2XB1 cell provides the logical inverted AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1N	B0	Y
x	x	0	1
x	0	1	0
0	1	1	1
1	1	1	0

Footprint

Cell Name	Area
OAI2XB1X0P7H7H	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1N	B0	Y
OAI2XB1X0P7H7H	0.00088	0.00092	0.00100	0.01718

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI2XB1X0P7H7H	0.00000	0.01566	0.01870

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2XB1X0P7H7H	A0->Y (FR)	0.06486	0.24301	0.75197
	A1N->Y (RR)	0.08763	0.24563	0.62792
	B0->Y (FR)	0.02667	0.14533	0.54256

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2XB1X0P7H7H	A0->Y (RF)	0.04204	0.17765	0.58077
	A1N->Y (FF)	0.07940	0.20809	0.51520
	B0->Y (RF)	0.03637	0.16686	0.58251

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2XB1X0P7H7H	A0	0.00125	0.00128	0.00130
	A0	-0.00011	-0.00011	-0.00011
	A0	0.00008	0.00009	0.00009
	A0	0.00017	0.00020	0.00023
	A1N	0.00104	0.00110	0.00115
	A1N	-0.00004	-0.00004	-0.00004
	A1N	0.00006	0.00006	0.00006
	A1N	0.00127	0.00133	0.00139
	B0	0.00096	0.00100	0.00104
	B0	-0.00006	-0.00006	-0.00005
	B0	0.00002	0.00003	0.00005
	B0	0.00009	0.00013	0.00017

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2XB1X0P7H7H	A0	-0.00010	-0.00008	-0.00007
	A0	0.00011	0.00011	0.00011
	A0	-0.00009	-0.00009	-0.00008
	A0	0.00098	0.00102	0.00103
	A1N	0.00117	0.00122	0.00126
	A1N	0.00004	0.00004	0.00004
	A1N	-0.00006	-0.00006	-0.00006
	A1N	0.00098	0.00103	0.00107
	B0	-0.00001	0.00003	0.00006
	B0	0.00011	0.00011	0.00011
	B0	-0.00002	-0.00002	-0.00002
	B0	0.00077	0.00080	0.00084

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X0P7H7H	(A1N * !B0 * Y)	-0.00015	-0.00015	-0.00014
	(A1N * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1N * !B0 * Y)	0.00001	0.00002	0.00002
	(A1N * !B0 * Y)	0.00028	0.00028	0.00029
	(!A1N * B0 * !Y)	-0.00015	-0.00015	-0.00013
	(!A1N * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1N * B0 * !Y)	0.00000	0.00001	0.00001
	(!A1N * B0 * !Y)	0.00029	0.00029	0.00030
	(!A1N * !B0 * Y)	-0.00017	-0.00017	-0.00016
	(!A1N * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1N * !B0 * Y)	0.00000	0.00001	0.00001
	(!A1N * !B0 * Y)	0.00027	0.00027	0.00027

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X0P7H7H	(A1N * !B0 * Y)	0.00015	0.00015	0.00015
	(A1N * !B0 * Y)	0.00001	0.00001	0.00001
	(A1N * !B0 * Y)	-0.00002	-0.00002	-0.00001
	(A1N * !B0 * Y)	-0.00029	-0.00028	-0.00026
	(!A1N * B0 * !Y)	0.00015	0.00015	0.00015
	(!A1N * B0 * !Y)	0.00002	0.00002	0.00002
	(!A1N * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1N * B0 * !Y)	-0.00029	-0.00029	-0.00029
	(!A1N * !B0 * Y)	0.00017	0.00017	0.00017
	(!A1N * !B0 * Y)	0.00002	0.00002	0.00002
	(!A1N * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1N * !B0 * Y)	-0.00027	-0.00027	-0.00027

Passive power(pJ) for A1N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X0P7H7H	(A0 * B0 * !Y)	-0.00012	-0.00010	-0.00007
	(A0 * B0 * !Y)	0.00005	0.00005	0.00005
	(A0 * B0 * !Y)	-0.00003	-0.00003	-0.00002
	(A0 * B0 * !Y)	0.00068	0.00070	0.00072
	(!B0 * Y)	0.00005	0.00008	0.00010
	(!B0 * Y)	0.00004	0.00004	0.00004
	(!B0 * Y)	-0.00003	-0.00003	-0.00002
	(!B0 * Y)	0.00083	0.00085	0.00088

Passive power(pJ) for A1N falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X0P7H7H	(A0 * B0 * !Y)	0.00100	0.00102	0.00105
	(A0 * B0 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * B0 * !Y)	0.00003	0.00003	0.00003
	(A0 * B0 * !Y)	0.00020	0.00023	0.00025
	(!B0 * Y)	0.00086	0.00089	0.00092
	(!B0 * Y)	-0.00004	-0.00004	-0.00004
	(!B0 * Y)	0.00003	0.00003	0.00003
	(!B0 * Y)	0.00008	0.00010	0.00013

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X0P7H7H	(!A0 * A1N * Y)	-0.00028	-0.00028	-0.00027
	(!A0 * A1N * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1N * Y)	0.00002	0.00002	0.00003
	(!A0 * A1N * Y)	0.00010	0.00010	0.00010

Passive power(pJ) for B0 falling (conditional):

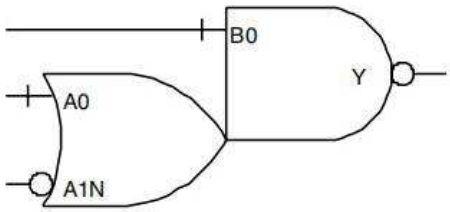
Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X0P7H7H	(!A0 * A1N * Y)	0.00028	0.00028	0.00028
	(!A0 * A1N * Y)	0.00001	0.00001	0.00001
	(!A0 * A1N * Y)	-0.00003	-0.00002	-0.00002
	(!A0 * A1N * Y)	-0.00010	-0.00010	-0.00010

OAI2XB1X1H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI2XB1 cell provides the logical inverted AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1N	B0	Y
x	x	0	1
x	0	1	0
0	1	1	1
1	1	1	0

Footprint

Cell Name	Area
OAI2XB1X1H7H	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1N	B0	Y
OAI2XB1X1H7H	0.00095	0.00090	0.00107	0.02051

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI2XB1X1H7H	0.00000	0.01828	0.01969

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2XB1X1H7H	A0->Y (FR)	0.05846	0.23722	0.75103
	A1N->Y (RR)	0.08062	0.24024	0.62590
	B0->Y (FR)	0.02394	0.14246	0.54280

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2XB1X1H7H	A0->Y (RF)	0.03955	0.17908	0.59622
	A1N->Y (FF)	0.07745	0.21034	0.52860
	B0->Y (RF)	0.03399	0.16784	0.59384

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2XB1X1H7H	A0	0.00137	0.00140	0.00142
	A0	-0.00014	-0.00014	-0.00013
	A0	0.00010	0.00010	0.00010
	A0	0.00018	0.00021	0.00023
	A1N	0.00112	0.00119	0.00124
	A1N	-0.00005	-0.00005	-0.00005
	A1N	0.00008	0.00008	0.00008
	A1N	0.00129	0.00136	0.00141
	B0	0.00105	0.00109	0.00114
	B0	-0.00007	-0.00007	-0.00007
	B0	0.00002	0.00003	0.00004
	B0	0.00009	0.00014	0.00018

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2XB1X1H7H	A0	-0.00012	-0.00010	-0.00008
	A0	0.00013	0.00014	0.00014
	A0	-0.00010	-0.00010	-0.00010
	A0	0.00109	0.00112	0.00113
	A1N	0.00119	0.00124	0.00129
	A1N	0.00005	0.00005	0.00005
	A1N	-0.00008	-0.00008	-0.00008
	A1N	0.00107	0.00112	0.00117
	B0	-0.00002	0.00002	0.00006
	B0	0.00013	0.00014	0.00014
	B0	-0.00003	-0.00003	-0.00002
	B0	0.00082	0.00086	0.00090

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X1H7H	(A1N * !B0 * Y)	-0.00017	-0.00017	-0.00017
	(A1N * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1N * !B0 * Y)	0.00002	0.00002	0.00002
	(A1N * !B0 * Y)	0.00029	0.00029	0.00030
	(!A1N * B0 * !Y)	-0.00017	-0.00016	-0.00015
	(!A1N * B0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A1N * B0 * !Y)	0.00000	0.00001	0.00001
	(!A1N * B0 * !Y)	0.00031	0.00031	0.00031
	(!A1N * !B0 * Y)	-0.00019	-0.00019	-0.00017
	(!A1N * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A1N * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1N * !B0 * Y)	0.00028	0.00028	0.00028

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X1H7H	(A1N * !B0 * Y)	0.00017	0.00017	0.00017
	(A1N * !B0 * Y)	0.00001	0.00001	0.00001
	(A1N * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(A1N * !B0 * Y)	-0.00029	-0.00028	-0.00026
	(!A1N * B0 * !Y)	0.00017	0.00017	0.00017
	(!A1N * B0 * !Y)	0.00002	0.00003	0.00003
	(!A1N * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1N * B0 * !Y)	-0.00031	-0.00030	-0.00030
	(!A1N * !B0 * Y)	0.00019	0.00019	0.00019
	(!A1N * !B0 * Y)	0.00003	0.00003	0.00003
	(!A1N * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1N * !B0 * Y)	-0.00028	-0.00028	-0.00028

Passive power(pJ) for A1N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X1H7H	(A0 * B0 * !Y)	-0.00012	-0.00010	-0.00007
	(A0 * B0 * !Y)	0.00006	0.00006	0.00006
	(A0 * B0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * !Y)	0.00067	0.00070	0.00072
	(!B0 * Y)	0.00007	0.00010	0.00012
	(!B0 * Y)	0.00004	0.00005	0.00005
	(!B0 * Y)	-0.00003	-0.00003	-0.00002
	(!B0 * Y)	0.00085	0.00087	0.00089

Passive power(pJ) for A1N falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X1H7H	(A0 * B0 * !Y)	0.00102	0.00104	0.00107
	(A0 * B0 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * B0 * !Y)	0.00003	0.00003	0.00003
	(A0 * B0 * !Y)	0.00023	0.00025	0.00027
	(!B0 * Y)	0.00087	0.00090	0.00093
	(!B0 * Y)	-0.00005	-0.00005	-0.00004
	(!B0 * Y)	0.00003	0.00003	0.00003
	(!B0 * Y)	0.00010	0.00012	0.00014

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X1H7H	(!A0 * A1N * Y)	-0.00031	-0.00030	-0.00030
	(!A0 * A1N * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1N * Y)	0.00003	0.00003	0.00003
	(!A0 * A1N * Y)	0.00010	0.00010	0.00010

Passive power(pJ) for B0 falling (conditional):

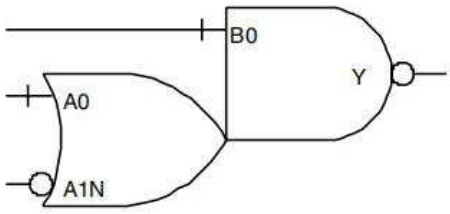
Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X1H7H	(!A0 * A1N * Y)	0.00031	0.00031	0.00031
	(!A0 * A1N * Y)	0.00001	0.00001	0.00001
	(!A0 * A1N * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1N * Y)	-0.00010	-0.00010	-0.00010

OAI2XB1X1P4H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI2XB1 cell provides the logical inverted AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1N	B0	Y
x	x	0	1
x	0	1	0
0	1	1	1
1	1	1	0

Footprint

Cell Name	Area
OAI2XB1X1P4H7H	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1N	B0	Y
OAI2XB1X1P4H7H	0.00101	0.00090	0.00117	0.02342

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI2XB1X1P4H7H	0.00000	0.02177	0.02669

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2XB1X1P4H7H	A0->Y (FR)	0.05445	0.23420	0.75123
	A1N->Y (RR)	0.07651	0.23783	0.62743
	B0->Y (FR)	0.02231	0.14103	0.54415

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2XB1X1P4H7H	A0->Y (RF)	0.03725	0.17805	0.60067
	A1N->Y (FF)	0.07582	0.21060	0.53362
	B0->Y (RF)	0.03223	0.16701	0.59649

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2XB1X1P4H7H	A0	0.00146	0.00150	0.00153
	A0	-0.00016	-0.00016	-0.00016
	A0	0.00012	0.00012	0.00012
	A0	0.00018	0.00021	0.00023
	A1N	0.00119	0.00126	0.00132
	A1N	-0.00007	-0.00006	-0.00006
	A1N	0.00009	0.00010	0.00010
	A1N	0.00130	0.00137	0.00143
	B0	0.00114	0.00118	0.00123
	B0	-0.00009	-0.00008	-0.00008
	B0	0.00003	0.00003	0.00004
	B0	0.00007	0.00013	0.00018

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2XB1X1P4H7H	A0	-0.00013	-0.00011	-0.00009
	A0	0.00016	0.00016	0.00016
	A0	-0.00012	-0.00012	-0.00012
	A0	0.00117	0.00121	0.00123
	A1N	0.00121	0.00127	0.00132
	A1N	0.00006	0.00006	0.00007
	A1N	-0.00010	-0.00010	-0.00009
	A1N	0.00115	0.00121	0.00127
	B0	-0.00003	0.00002	0.00006
	B0	0.00016	0.00016	0.00018
	B0	-0.00003	-0.00003	-0.00003
	B0	0.00089	0.00093	0.00098

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X1P4H7H	(A1N * !B0 * Y)	-0.00019	-0.00019	-0.00019
	(A1N * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1N * !B0 * Y)	0.00002	0.00002	0.00002
	(A1N * !B0 * Y)	0.00030	0.00030	0.00030
	(!A1N * B0 * !Y)	-0.00019	-0.00018	-0.00016
	(!A1N * B0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1N * B0 * !Y)	0.00000	0.00001	0.00001
	(!A1N * B0 * !Y)	0.00031	0.00032	0.00032
	(!A1N * !B0 * Y)	-0.00021	-0.00020	-0.00019
	(!A1N * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A1N * !B0 * Y)	0.00000	0.00001	0.00001
	(!A1N * !B0 * Y)	0.00029	0.00030	0.00030

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X1P4H7H	(A1N * !B0 * Y)	0.00019	0.00019	0.00019
	(A1N * !B0 * Y)	0.00001	0.00001	0.00001
	(A1N * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(A1N * !B0 * Y)	-0.00030	-0.00029	-0.00027
	(!A1N * B0 * !Y)	0.00019	0.00019	0.00019
	(!A1N * B0 * !Y)	0.00003	0.00003	0.00003
	(!A1N * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1N * B0 * !Y)	-0.00031	-0.00031	-0.00031
	(!A1N * !B0 * Y)	0.00020	0.00021	0.00021
	(!A1N * !B0 * Y)	0.00003	0.00003	0.00003
	(!A1N * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1N * !B0 * Y)	-0.00029	-0.00029	-0.00029

Passive power(pJ) for A1N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X1P4H7H	(A0 * B0 * !Y)	-0.00012	-0.00010	-0.00007
	(A0 * B0 * !Y)	0.00007	0.00007	0.00007
	(A0 * B0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * !Y)	0.00068	0.00070	0.00073
	(!B0 * Y)	0.00009	0.00011	0.00014
	(!B0 * Y)	0.00005	0.00005	0.00006
	(!B0 * Y)	-0.00003	-0.00003	-0.00003
	(!B0 * Y)	0.00087	0.00089	0.00092

Passive power(pJ) for A1N falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X1P4H7H	(A0 * B0 * !Y)	0.00104	0.00106	0.00109
	(A0 * B0 * !Y)	-0.00007	-0.00006	-0.00006
	(A0 * B0 * !Y)	0.00003	0.00003	0.00003
	(A0 * B0 * !Y)	0.00024	0.00026	0.00029
	(!B0 * Y)	0.00088	0.00091	0.00094
	(!B0 * Y)	-0.00006	-0.00005	-0.00005
	(!B0 * Y)	0.00003	0.00003	0.00003
	(!B0 * Y)	0.00010	0.00013	0.00015

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X1P4H7H	(!A0 * A1N * Y)	-0.00034	-0.00034	-0.00033
	(!A0 * A1N * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1N * Y)	0.00003	0.00003	0.00004
	(!A0 * A1N * Y)	0.00010	0.00010	0.00010

Passive power(pJ) for B0 falling (conditional):

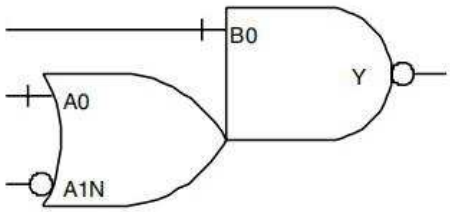
Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X1P4H7H	(!A0 * A1N * Y)	0.00034	0.00034	0.00034
	(!A0 * A1N * Y)	0.00001	0.00001	0.00001
	(!A0 * A1N * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1N * Y)	-0.00010	-0.00010	-0.00010

OAI2XB1X2H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI2XB1 cell provides the logical inverted AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1N	B0	Y
x	x	0	1
x	0	1	0
0	1	1	1
1	1	1	0

Footprint

Cell Name	Area
OAI2XB1X2H7H	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1N	B0	Y
OAI2XB1X2H7H	0.00112	0.00090	0.00125	0.02711

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI2XB1X2H7H	0.00000	0.02824	0.03999

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2XB1X2H7H	A0->Y (FR)	0.05205	0.23284	0.75443
	A1N->Y (RR)	0.07420	0.23751	0.63206
	B0->Y (FR)	0.02083	0.13967	0.54518

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2XB1X2H7H	A0->Y (RF)	0.03493	0.17435	0.59601
	A1N->Y (FF)	0.07509	0.21008	0.53380
	B0->Y (RF)	0.02972	0.16314	0.59059

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2XB1X2H7H	A0	0.00165	0.00168	0.00171
	A0	-0.00019	-0.00019	-0.00019
	A0	0.00014	0.00014	0.00014
	A0	0.00018	0.00022	0.00025
	A1N	0.00132	0.00139	0.00146
	A1N	-0.00008	-0.00008	-0.00008
	A1N	0.00010	0.00012	0.00012
	A1N	0.00135	0.00142	0.00148
	B0	0.00127	0.00132	0.00138
	B0	-0.00010	-0.00010	-0.00010
	B0	0.00004	0.00004	0.00005
	B0	0.00008	0.00015	0.00020

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2XB1X2H7H	A0	-0.00016	-0.00013	-0.00011
	A0	0.00019	0.00019	0.00019
	A0	-0.00014	-0.00014	-0.00014
	A0	0.00132	0.00136	0.00138
	A1N	0.00126	0.00133	0.00139
	A1N	0.00008	0.00008	0.00008
	A1N	-0.00012	-0.00012	-0.00010
	A1N	0.00130	0.00136	0.00142
	B0	-0.00004	0.00001	0.00006
	B0	0.00019	0.00019	0.00019
	B0	-0.00004	-0.00004	-0.00003
	B0	0.00098	0.00102	0.00107

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X2H7H	(A1N * !B0 * Y)	-0.00023	-0.00023	-0.00022
	(A1N * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1N * !B0 * Y)	0.00002	0.00003	0.00003
	(A1N * !B0 * Y)	0.00032	0.00032	0.00032
	(!A1N * B0 * !Y)	-0.00021	-0.00020	-0.00018
	(!A1N * B0 * !Y)	-0.00004	-0.00003	-0.00003
	(!A1N * B0 * !Y)	0.00001	0.00001	0.00001
	(!A1N * B0 * !Y)	0.00035	0.00035	0.00035
	(!A1N * !B0 * Y)	-0.00024	-0.00023	-0.00021
	(!A1N * !B0 * Y)	-0.00004	-0.00003	-0.00003
	(!A1N * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1N * !B0 * Y)	0.00032	0.00032	0.00032

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X2H7H	(A1N * !B0 * Y)	0.00023	0.00023	0.00023
	(A1N * !B0 * Y)	0.00001	0.00001	0.00002
	(A1N * !B0 * Y)	-0.00003	-0.00003	-0.00002
	(A1N * !B0 * Y)	-0.00032	-0.00031	-0.00029
	(!A1N * B0 * !Y)	0.00021	0.00021	0.00021
	(!A1N * B0 * !Y)	0.00003	0.00003	0.00004
	(!A1N * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1N * B0 * !Y)	-0.00035	-0.00035	-0.00034
	(!A1N * !B0 * Y)	0.00023	0.00024	0.00024
	(!A1N * !B0 * Y)	0.00003	0.00004	0.00004
	(!A1N * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1N * !B0 * Y)	-0.00032	-0.00032	-0.00032

Passive power(pJ) for A1N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X2H7H	(A0 * B0 * !Y)	-0.00011	-0.00009	-0.00007
	(A0 * B0 * !Y)	0.00007	0.00007	0.00007
	(A0 * B0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * !Y)	0.00069	0.00071	0.00074
	(!B0 * Y)	0.00012	0.00014	0.00017
	(!B0 * Y)	0.00005	0.00006	0.00006
	(!B0 * Y)	-0.00003	-0.00003	-0.00003
	(!B0 * Y)	0.00090	0.00092	0.00095

Passive power(pJ) for A1N falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X2H7H	(A0 * B0 * !Y)	0.00108	0.00110	0.00113
	(A0 * B0 * !Y)	-0.00007	-0.00007	-0.00007
	(A0 * B0 * !Y)	0.00003	0.00003	0.00003
	(A0 * B0 * !Y)	0.00028	0.00030	0.00032
	(!B0 * Y)	0.00091	0.00093	0.00097
	(!B0 * Y)	-0.00006	-0.00006	-0.00005
	(!B0 * Y)	0.00003	0.00003	0.00003
	(!B0 * Y)	0.00013	0.00015	0.00017

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X2H7H	(!A0 * A1N * Y)	-0.00038	-0.00037	-0.00037
	(!A0 * A1N * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1N * Y)	0.00004	0.00004	0.00004
	(!A0 * A1N * Y)	0.00009	0.00009	0.00009

Passive power(pJ) for B0 falling (conditional):

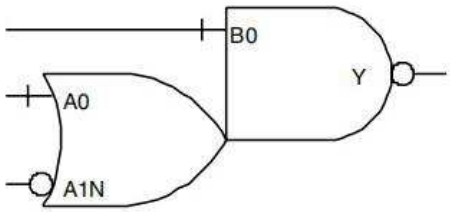
Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X2H7H	(!A0 * A1N * Y)	0.00038	0.00038	0.00038
	(!A0 * A1N * Y)	0.00001	0.00002	0.00002
	(!A0 * A1N * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A1N * Y)	-0.00009	-0.00009	-0.00009

OAI2XB1X3H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI2XB1 cell provides the logical inverted AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1N	B0	Y
x	x	0	1
x	0	1	0
0	1	1	1
1	1	1	0

Footprint

Cell Name	Area
OAI2XB1X3H7H	3.64000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1N	B0	Y
OAI2XB1X3H7H	0.00190	0.00103	0.00193	0.04308

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI2XB1X3H7H	0.00000	0.03661	0.04153

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2XB1X3H7H	A0->Y (FR)	0.05147	0.23224	0.75421
	A1N->Y (RR)	0.07105	0.24006	0.64775
	B0->Y (FR)	0.01834	0.13521	0.54129

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2XB1X3H7H	A0->Y (RF)	0.03416	0.17381	0.59606
	A1N->Y (FF)	0.07417	0.21280	0.54635
	B0->Y (RF)	0.02670	0.16052	0.59162

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2XB1X3H7H	A0	0.00274	0.00280	0.00286
	A0	-0.00028	-0.00028	-0.00028
	A0	0.00021	0.00022	0.00022
	A0	0.00032	0.00038	0.00044
	A1N	0.00206	0.00216	0.00224
	A1N	-0.00012	-0.00012	-0.00010
	A1N	0.00018	0.00019	0.00019
	A1N	0.00176	0.00185	0.00194
	B0	0.00200	0.00208	0.00217
	B0	-0.00015	-0.00015	-0.00014
	B0	0.00005	0.00006	0.00007
	B0	0.00009	0.00018	0.00027

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2XB1X3H7H	A0	-0.00028	-0.00021	-0.00017
	A0	0.00028	0.00028	0.00028
	A0	-0.00022	-0.00022	-0.00021
	A0	0.00219	0.00224	0.00229
	A1N	0.00178	0.00187	0.00195
	A1N	0.00012	0.00012	0.00013
	A1N	-0.00019	-0.00019	-0.00018
	A1N	0.00218	0.00228	0.00236
	B0	-0.00004	0.00004	0.00011
	B0	0.00028	0.00028	0.00028
	B0	-0.00006	-0.00006	-0.00004
	B0	0.00158	0.00165	0.00173

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X3H7H	(A1N * !B0 * Y)	-0.00042	-0.00042	-0.00042
	(A1N * !B0 * Y)	-0.00003	-0.00002	-0.00002
	(A1N * !B0 * Y)	0.00004	0.00004	0.00004
	(A1N * !B0 * Y)	0.00052	0.00052	0.00053
	(!A1N * B0 * !Y)	-0.00030	-0.00028	-0.00024
	(!A1N * B0 * !Y)	-0.00005	-0.00005	-0.00005
	(!A1N * B0 * !Y)	0.00001	0.00001	0.00001
	(!A1N * B0 * !Y)	0.00066	0.00067	0.00067
	(!A1N * !B0 * Y)	-0.00037	-0.00036	-0.00032
	(!A1N * !B0 * Y)	-0.00006	-0.00005	-0.00005
	(!A1N * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1N * !B0 * Y)	0.00059	0.00059	0.00059

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X3H7H	(A1N * !B0 * Y)	0.00042	0.00042	0.00043
	(A1N * !B0 * Y)	0.00002	0.00003	0.00003
	(A1N * !B0 * Y)	-0.00004	-0.00004	-0.00004
	(A1N * !B0 * Y)	-0.00052	-0.00050	-0.00047
	(!A1N * B0 * !Y)	0.00029	0.00030	0.00030
	(!A1N * B0 * !Y)	0.00005	0.00005	0.00005
	(!A1N * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1N * B0 * !Y)	-0.00066	-0.00066	-0.00065
	(!A1N * !B0 * Y)	0.00037	0.00037	0.00037
	(!A1N * !B0 * Y)	0.00005	0.00005	0.00006
	(!A1N * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1N * !B0 * Y)	-0.00059	-0.00059	-0.00059

Passive power(pJ) for A1N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X3H7H	(A0 * B0 * !Y)	-0.00014	-0.00012	-0.00009
	(A0 * B0 * !Y)	0.00012	0.00012	0.00012
	(A0 * B0 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * B0 * !Y)	0.00080	0.00083	0.00086
	(!B0 * Y)	0.00020	0.00023	0.00026
	(!B0 * Y)	0.00009	0.00009	0.00010
	(!B0 * Y)	-0.00004	-0.00004	-0.00004
	(!B0 * Y)	0.00111	0.00113	0.00117

Passive power(pJ) for A1N falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X3H7H	(A0 * B0 * !Y)	0.00152	0.00154	0.00158
	(A0 * B0 * !Y)	-0.00011	-0.00011	-0.00011
	(A0 * B0 * !Y)	0.00004	0.00004	0.00004
	(A0 * B0 * !Y)	0.00058	0.00060	0.00063
	(!B0 * Y)	0.00128	0.00131	0.00136
	(!B0 * Y)	-0.00010	-0.00009	-0.00009
	(!B0 * Y)	0.00004	0.00004	0.00004
	(!B0 * Y)	0.00037	0.00039	0.00043

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X3H7H	(!A0 * A1N * Y)	-0.00057	-0.00056	-0.00056
	(!A0 * A1N * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * A1N * Y)	0.00005	0.00006	0.00007
	(!A0 * A1N * Y)	0.00019	0.00020	0.00020

Passive power(pJ) for B0 falling (conditional):

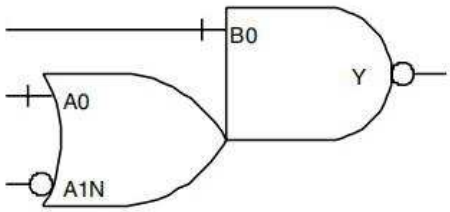
Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X3H7H	(!A0 * A1N * Y)	0.00057	0.00057	0.00058
	(!A0 * A1N * Y)	0.00003	0.00003	0.00003
	(!A0 * A1N * Y)	-0.00006	-0.00006	-0.00005
	(!A0 * A1N * Y)	-0.00020	-0.00019	-0.00019

OAI2XB1X4H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI2XB1 cell provides the logical inverted AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1N	B0	Y
x	x	0	1
x	0	1	0
0	1	1	1
1	1	1	0

Footprint

Cell Name	Area
OAI2XB1X4H7H	3.92000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1N	B0	Y
OAI2XB1X4H7H	0.00219	0.00106	0.00227	0.05428

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI2XB1X4H7H	0.00000	0.05701	0.07554

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2XB1X4H7H	A0->Y (FR)	0.04773	0.23020	0.75785
	A1N->Y (RR)	0.06611	0.23645	0.64766
	B0->Y (FR)	0.01702	0.13443	0.54360

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2XB1X4H7H	A0->Y (RF)	0.03168	0.17163	0.59780
	A1N->Y (FF)	0.07049	0.20981	0.54468
	B0->Y (RF)	0.02494	0.15876	0.59193

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2XB1X4H7H	A0	0.00324	0.00331	0.00338
	A0	-0.00038	-0.00038	-0.00037
	A0	0.00028	0.00028	0.00029
	A0	0.00033	0.00040	0.00047
	A1N	0.00242	0.00253	0.00262
	A1N	-0.00017	-0.00017	-0.00016
	A1N	0.00021	0.00025	0.00025
	A1N	0.00191	0.00202	0.00211
	B0	0.00238	0.00247	0.00258
	B0	-0.00021	-0.00020	-0.00019
	B0	0.00006	0.00008	0.00010
	B0	0.00008	0.00019	0.00030

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2XB1X4H7H	A0	-0.00035	-0.00027	-0.00022
	A0	0.00037	0.00038	0.00038
	A0	-0.00029	-0.00028	-0.00028
	A0	0.00261	0.00267	0.00273
	A1N	0.00192	0.00203	0.00212
	A1N	0.00016	0.00017	0.00018
	A1N	-0.00025	-0.00025	-0.00021
	A1N	0.00255	0.00266	0.00275
	B0	-0.00009	0.00001	0.00009
	B0	0.00037	0.00038	0.00038
	B0	-0.00008	-0.00008	-0.00006
	B0	0.00185	0.00193	0.00202

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X4H7H	(A1N * !B0 * Y)	-0.00052	-0.00052	-0.00051
	(A1N * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(A1N * !B0 * Y)	0.00005	0.00005	0.00005
	(A1N * !B0 * Y)	0.00058	0.00058	0.00058
	(!A1N * B0 * !Y)	-0.00038	-0.00035	-0.00031
	(!A1N * B0 * !Y)	-0.00007	-0.00007	-0.00006
	(!A1N * B0 * !Y)	0.00001	0.00001	0.00002
	(!A1N * B0 * !Y)	0.00073	0.00073	0.00074
	(!A1N * !B0 * Y)	-0.00045	-0.00043	-0.00039
	(!A1N * !B0 * Y)	-0.00007	-0.00007	-0.00006
	(!A1N * !B0 * Y)	0.00001	0.00002	0.00002
	(!A1N * !B0 * Y)	0.00066	0.00066	0.00067

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X4H7H	(A1N * !B0 * Y)	0.00052	0.00052	0.00053
	(A1N * !B0 * Y)	0.00003	0.00003	0.00003
	(A1N * !B0 * Y)	-0.00005	-0.00005	-0.00005
	(A1N * !B0 * Y)	-0.00058	-0.00055	-0.00051
	(!A1N * B0 * !Y)	0.00037	0.00038	0.00038
	(!A1N * B0 * !Y)	0.00006	0.00007	0.00007
	(!A1N * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1N * B0 * !Y)	-0.00073	-0.00073	-0.00072
	(!A1N * !B0 * Y)	0.00045	0.00045	0.00045
	(!A1N * !B0 * Y)	0.00007	0.00007	0.00007
	(!A1N * !B0 * Y)	-0.00002	-0.00002	-0.00001
	(!A1N * !B0 * Y)	-0.00066	-0.00065	-0.00065

Passive power(pJ) for A1N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X4H7H	(A0 * B0 * !Y)	-0.00015	-0.00013	-0.00010
	(A0 * B0 * !Y)	0.00014	0.00015	0.00014
	(A0 * B0 * !Y)	-0.00005	-0.00005	-0.00004
	(A0 * B0 * !Y)	0.00086	0.00089	0.00091
	(!B0 * Y)	0.00026	0.00028	0.00031
	(!B0 * Y)	0.00011	0.00012	0.00013
	(!B0 * Y)	-0.00005	-0.00005	-0.00005
	(!B0 * Y)	0.00122	0.00124	0.00128

Passive power(pJ) for A1N falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X4H7H	(A0 * B0 * !Y)	0.00165	0.00168	0.00172
	(A0 * B0 * !Y)	-0.00014	-0.00014	-0.00013
	(A0 * B0 * !Y)	0.00005	0.00005	0.00005
	(A0 * B0 * !Y)	0.00064	0.00067	0.00071
	(!B0 * Y)	0.00138	0.00141	0.00146
	(!B0 * Y)	-0.00013	-0.00012	-0.00011
	(!B0 * Y)	0.00005	0.00005	0.00005
	(!B0 * Y)	0.00041	0.00043	0.00047

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X4H7H	(!A0 * A1N * Y)	-0.00070	-0.00069	-0.00069
	(!A0 * A1N * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1N * Y)	0.00008	0.00008	0.00008
	(!A0 * A1N * Y)	0.00019	0.00019	0.00020

Passive power(pJ) for B0 falling (conditional):

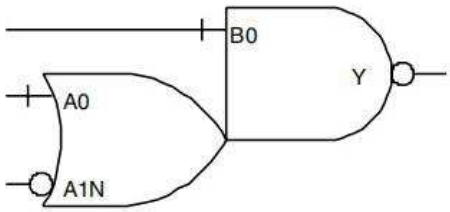
Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X4H7H	(!A0 * A1N * Y)	0.00069	0.00070	0.00070
	(!A0 * A1N * Y)	0.00003	0.00003	0.00003
	(!A0 * A1N * Y)	-0.00008	-0.00007	-0.00007
	(!A0 * A1N * Y)	-0.00019	-0.00019	-0.00019

OAI2XB1X6H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI2XB1 cell provides the logical inverted AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1N	B0	Y
x	x	0	1
x	0	1	0
0	1	1	1
1	1	1	0

Footprint

Cell Name	Area
OAI2XB1X6H7H	5.04000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1N	B0	Y
OAI2XB1X6H7H	0.00305	0.00128	0.00338	0.08129

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI2XB1X6H7H	0.00000	0.08372	0.11404

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2XB1X6H7H	A0->Y (FR)	0.04387	0.22582	0.75456
	A1N->Y (RR)	0.07046	0.24701	0.67427
	B0->Y (FR)	0.01558	0.13215	0.54278

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2XB1X6H7H	A0->Y (RF)	0.02918	0.16923	0.59696
	A1N->Y (FF)	0.07903	0.22518	0.57925
	B0->Y (RF)	0.02349	0.15778	0.59435

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2XB1X6H7H	A0	0.00457	0.00466	0.00473
	A0	-0.00057	-0.00057	-0.00056
	A0	0.00042	0.00043	0.00043
	A0	0.00038	0.00046	0.00052
	A1N	0.00351	0.00367	0.00382
	A1N	-0.00027	-0.00026	-0.00024
	A1N	0.00038	0.00039	0.00039
	A1N	0.00269	0.00286	0.00301
	B0	0.00342	0.00356	0.00373
	B0	-0.00031	-0.00030	-0.00028
	B0	0.00009	0.00012	0.00014
	B0	0.00004	0.00022	0.00037

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2XB1X6H7H	A0	-0.00048	-0.00040	-0.00034
	A0	0.00056	0.00057	0.00057
	A0	-0.00043	-0.00043	-0.00042
	A0	0.00374	0.00385	0.00392
	A1N	0.00279	0.00297	0.00311
	A1N	0.00024	0.00026	0.00028
	A1N	-0.00039	-0.00039	-0.00038
	A1N	0.00378	0.00395	0.00410
	B0	-0.00022	-0.00007	0.00006
	B0	0.00056	0.00056	0.00057
	B0	-0.00012	-0.00012	-0.00009
	B0	0.00271	0.00282	0.00296

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X6H7H	(A1N * !B0 * Y)	-0.00068	-0.00068	-0.00067
	(A1N * !B0 * Y)	-0.00005	-0.00004	-0.00004
	(A1N * !B0 * Y)	0.00007	0.00007	0.00008
	(A1N * !B0 * Y)	0.00091	0.00093	0.00093
	(!A1N * B0 * !Y)	-0.00065	-0.00061	-0.00055
	(!A1N * B0 * !Y)	-0.00011	-0.00011	-0.00010
	(!A1N * B0 * !Y)	0.00001	0.00002	0.00003
	(!A1N * B0 * !Y)	0.00096	0.00097	0.00100
	(!A1N * !B0 * Y)	-0.00066	-0.00062	-0.00056
	(!A1N * !B0 * Y)	-0.00011	-0.00010	-0.00008
	(!A1N * !B0 * Y)	0.00002	0.00002	0.00003
	(!A1N * !B0 * Y)	0.00095	0.00096	0.00096

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X6H7H	(A1N * !B0 * Y)	0.00068	0.00068	0.00069
	(A1N * !B0 * Y)	0.00004	0.00005	0.00005
	(A1N * !B0 * Y)	-0.00008	-0.00007	-0.00007
	(A1N * !B0 * Y)	-0.00093	-0.00089	-0.00083
	(!A1N * B0 * !Y)	0.00065	0.00065	0.00065
	(!A1N * B0 * !Y)	0.00010	0.00011	0.00011
	(!A1N * B0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1N * B0 * !Y)	-0.00096	-0.00096	-0.00095
	(!A1N * !B0 * Y)	0.00065	0.00066	0.00068
	(!A1N * !B0 * Y)	0.00008	0.00010	0.00011
	(!A1N * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1N * !B0 * Y)	-0.00096	-0.00096	-0.00095

Passive power(pJ) for A1N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X6H7H	(A0 * B0 * !Y)	-0.00019	-0.00016	-0.00011
	(A0 * B0 * !Y)	0.00021	0.00022	0.00022
	(A0 * B0 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * B0 * !Y)	0.00117	0.00121	0.00126
	(!B0 * Y)	0.00043	0.00046	0.00051
	(!B0 * Y)	0.00016	0.00017	0.00018
	(!B0 * Y)	-0.00006	-0.00006	-0.00006
	(!B0 * Y)	0.00171	0.00174	0.00179

Passive power(pJ) for A1N falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X6H7H	(A0 * B0 * !Y)	0.00246	0.00249	0.00254
	(A0 * B0 * !Y)	-0.00021	-0.00021	-0.00021
	(A0 * B0 * !Y)	0.00006	0.00006	0.00006
	(A0 * B0 * !Y)	0.00110	0.00113	0.00118
	(!B0 * Y)	0.00203	0.00208	0.00215
	(!B0 * Y)	-0.00018	-0.00017	-0.00016
	(!B0 * Y)	0.00006	0.00006	0.00006
	(!B0 * Y)	0.00075	0.00078	0.00083

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X6H7H	(!A0 * A1N * Y)	-0.00105	-0.00104	-0.00102
	(!A0 * A1N * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A1N * Y)	0.00012	0.00012	0.00013
	(!A0 * A1N * Y)	0.00030	0.00031	0.00031

Passive power(pJ) for B0 falling (conditional):

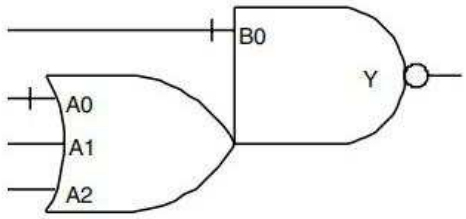
Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X6H7H	(!A0 * A1N * Y)	0.00104	0.00105	0.00105
	(!A0 * A1N * Y)	0.00004	0.00005	0.00005
	(!A0 * A1N * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * A1N * Y)	-0.00031	-0.00031	-0.00030

OAI31X0P5H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI31 cell provides the logical inverted AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	A2	B0	Y
0	0	0	x	1
0	x	1	0	1
0	x	1	1	0
x	1	x	0	1
x	1	x	1	0
1	x	x	0	1
1	x	x	1	0

Footprint

Cell Name	Area
OAI31X0P5H7H	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	A2	B0	Y
OAI31X0P5H7H	0.00074	0.00075	0.00083	0.00090	0.00976

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI31X0P5H7H	0.00000	0.01008	0.01583

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI31X0P5H7H	A0->Y (FR)	0.09877	0.26531	0.72346
	A1->Y (FR)	0.09674	0.26737	0.74767
	A2->Y (FR)	0.09019	0.25495	0.72620
	B0->Y (FR)	0.02580	0.11976	0.44232

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI31X0P5H7H	A0->Y (RF)	0.04332	0.15080	0.47020
	A1->Y (RF)	0.04156	0.14749	0.46626
	A2->Y (RF)	0.03912	0.14309	0.46144
	B0->Y (RF)	0.03772	0.14026	0.47105

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI31X0P5H7H	A0	0.00118	0.00120	0.00122
	A0	-0.00014	-0.00014	-0.00013
	A0	0.00009	0.00009	0.00009
	A0	-0.00013	-0.00011	-0.00009
	A1	0.00106	0.00108	0.00110
	A1	-0.00010	-0.00010	-0.00009
	A1	0.00009	0.00009	0.00009
	A1	-0.00007	-0.00005	-0.00003
	A2	0.00092	0.00095	0.00098
	A2	-0.00005	-0.00005	-0.00005
	A2	0.00009	0.00009	0.00009
	A2	-0.00009	-0.00006	-0.00003
	B0	0.00090	0.00093	0.00097
	B0	-0.00005	-0.00005	-0.00005
	B0	0.00002	0.00002	0.00003
	B0	-0.00014	-0.00010	-0.00007

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI31X0P5H7H	A0	-0.00008	-0.00007	-0.00006
	A0	0.00013	0.00014	0.00014
	A0	-0.00009	-0.00009	-0.00009
	A0	0.00123	0.00125	0.00126
	A1	-0.00008	-0.00006	-0.00006
	A1	0.00009	0.00010	0.00010
	A1	-0.00009	-0.00009	-0.00009
	A1	0.00108	0.00110	0.00111
	A2	-0.00010	-0.00007	-0.00005
	A2	0.00005	0.00005	0.00005
	A2	-0.00009	-0.00009	-0.00009
	A2	0.00098	0.00101	0.00103
	B0	-0.00011	-0.00008	-0.00005
	B0	0.00013	0.00014	0.00015
	B0	-0.00002	-0.00002	-0.00001
	B0	0.00087	0.00090	0.00093

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X0P5H7H	(A1 * A2 * B0 * !Y)	-0.00009	-0.00008	-0.00007
	(A1 * A2 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * A2 * B0 * !Y)	0.00029	0.00029	0.00029
	(A1 * !B0 * Y)	-0.00009	-0.00008	-0.00007
	(A1 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * Y)	0.00029	0.00029	0.00029
	(A1 * !A2 * B0 * !Y)	-0.00009	-0.00008	-0.00007
	(A1 * !A2 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !Y)	0.00029	0.00029	0.00029
	(!A1 * A2 * B0 * !Y)	-0.00008	-0.00007	-0.00006
	(!A1 * A2 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * B0 * !Y)	0.00028	0.00029	0.00029
	(!A1 * A2 * !B0 * Y)	-0.00008	-0.00007	-0.00006
	(!A1 * A2 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B0 * Y)	0.00029	0.00029	0.00029
	(!A1 * !A2 * !B0 * Y)	-0.00011	-0.00011	-0.00011
	(!A1 * !A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B0 * Y)	0.00025	0.00025	0.00025

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X0P5H7H	(A1 * A2 * B0 * !Y)	0.00009	0.00009	0.00009
	(A1 * A2 * B0 * !Y)	0.00002	0.00002	0.00002
	(A1 * A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * A2 * B0 * !Y)	-0.00029	-0.00029	-0.00029
	(A1 * !B0 * Y)	0.00009	0.00009	0.00009
	(A1 * !B0 * Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * Y)	-0.00029	-0.00029	-0.00029
	(A1 * !A2 * B0 * !Y)	0.00009	0.00009	0.00009
	(A1 * !A2 * B0 * !Y)	0.00002	0.00002	0.00002
	(A1 * !A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * !Y)	-0.00029	-0.00029	-0.00029
	(!A1 * A2 * B0 * !Y)	0.00008	0.00009	0.00009
	(!A1 * A2 * B0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * B0 * !Y)	-0.00029	-0.00029	-0.00028
	(!A1 * A2 * !B0 * Y)	0.00008	0.00009	0.00009
	(!A1 * A2 * !B0 * Y)	0.00002	0.00002	0.00002
	(!A1 * A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B0 * Y)	-0.00029	-0.00029	-0.00029
	(!A1 * !A2 * !B0 * Y)	0.00011	0.00011	0.00011
	(!A1 * !A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B0 * Y)	-0.00025	-0.00024	-0.00022

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X0P5H7H	(A0 * A2 * B0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A2 * B0 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * !Y)	0.00024	0.00024	0.00024
	(A0 * A2 * !B0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A2 * !B0 * Y)	-0.00006	-0.00006	-0.00006
	(A0 * A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A2 * !B0 * Y)	0.00024	0.00024	0.00024
	(A0 * !A2 * B0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !Y)	-0.00005	-0.00005	-0.00004
	(A0 * !A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !Y)	0.00024	0.00024	0.00024
	(A0 * !A2 * !B0 * Y)	-0.00009	-0.00008	-0.00007
	(A0 * !A2 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B0 * Y)	0.00024	0.00024	0.00024
	(!A0 * A2 * B0 * !Y)	-0.00009	-0.00008	-0.00007
	(!A0 * A2 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * B0 * !Y)	0.00024	0.00024	0.00024
	(!A0 * A2 * !B0 * Y)	-0.00009	-0.00008	-0.00007
	(!A0 * A2 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * !B0 * Y)	0.00024	0.00024	0.00024
	(!A0 * !A2 * !B0 * Y)	-0.00011	-0.00011	-0.00011
	(!A0 * !A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * !B0 * Y)	0.00001	0.00002	0.00002
	(!A0 * !A2 * !B0 * Y)	0.00019	0.00019	0.00019

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X0P5H7H	(A0 * A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * !Y)	0.00005	0.00005	0.00005
	(A0 * A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B0 * !Y)	-0.00024	-0.00024	-0.00024
	(A0 * A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A2 * !B0 * Y)	0.00006	0.00006	0.00006
	(A0 * A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * !B0 * Y)	-0.00024	-0.00024	-0.00024
	(A0 * !A2 * B0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !Y)	0.00005	0.00005	0.00005
	(A0 * !A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * B0 * !Y)	-0.00024	-0.00024	-0.00024
	(A0 * !A2 * !B0 * Y)	0.00009	0.00009	0.00009
	(A0 * !A2 * !B0 * Y)	0.00002	0.00002	0.00002
	(A0 * !A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * !B0 * Y)	-0.00024	-0.00024	-0.00023
	(!A0 * A2 * B0 * !Y)	0.00009	0.00009	0.00009
	(!A0 * A2 * B0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * B0 * !Y)	-0.00024	-0.00024	-0.00023
	(!A0 * A2 * !B0 * Y)	0.00009	0.00009	0.00009
	(!A0 * A2 * !B0 * Y)	0.00002	0.00002	0.00002
	(!A0 * A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * !B0 * Y)	-0.00024	-0.00024	-0.00023
	(!A0 * !A2 * !B0 * Y)	0.00011	0.00011	0.00011
	(!A0 * !A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A2 * !B0 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A2 * !B0 * Y)	-0.00019	-0.00018	-0.00016

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X0P5H7H	(A1 * B0 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !Y)	0.00031	0.00031	0.00031
	(A1 * !B0 * Y)	-0.00013	-0.00012	-0.00011
	(A1 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * Y)	0.00023	0.00023	0.00023
	(A0 * !A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !Y)	0.00031	0.00031	0.00031
	(A0 * !A1 * !B0 * Y)	-0.00012	-0.00011	-0.00009
	(A0 * !A1 * !B0 * Y)	-0.00003	-0.00002	-0.00002
	(A0 * !A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B0 * Y)	0.00023	0.00023	0.00023
	(!A0 * !A1 * !B0 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * Y)	0.00019	0.00019	0.00019

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X0P5H7H	(A1 * B0 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * !Y)	0.00003	0.00003	0.00003
	(A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !Y)	-0.00031	-0.00031	-0.00031
	(A1 * !B0 * Y)	0.00013	0.00013	0.00013
	(A1 * !B0 * Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * Y)	-0.00023	-0.00023	-0.00023
	(A0 * !A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !Y)	0.00003	0.00003	0.00003
	(A0 * !A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * !Y)	-0.00031	-0.00031	-0.00031
	(A0 * !A1 * !B0 * Y)	0.00012	0.00012	0.00012
	(A0 * !A1 * !B0 * Y)	0.00002	0.00002	0.00003
	(A0 * !A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !B0 * Y)	-0.00023	-0.00023	-0.00023
	(!A0 * !A1 * !B0 * Y)	0.00015	0.00015	0.00015
	(!A0 * !A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * Y)	-0.00019	-0.00018	-0.00016

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X0P5H7H	(!A0 * !A1 * !A2 * Y)	-0.00025	-0.00024	-0.00024
	(!A0 * !A1 * !A2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !A2 * Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * !A2 * Y)	0.00007	0.00007	0.00008

Passive power(pJ) for B0 falling (conditional):

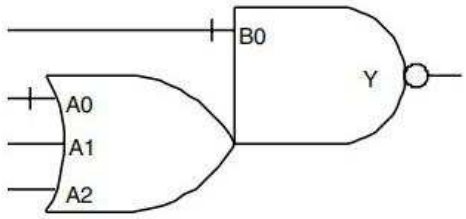
Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X0P5H7H	(!A0 * !A1 * !A2 * Y)	0.00024	0.00024	0.00025
	(!A0 * !A1 * !A2 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !A2 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * Y)	-0.00008	-0.00007	-0.00007

OAI31X0P7H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI31 cell provides the logical inverted AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	A2	B0	Y
0	0	0	x	1
0	x	1	0	1
0	x	1	1	0
x	1	x	0	1
x	1	x	1	0
1	x	x	0	1
1	x	x	1	0

Footprint

Cell Name	Area
OAI31X0P7H7H	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	A2	B0	Y
OAI31X0P7H7H	0.00078	0.00080	0.00087	0.00099	0.01115

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI31X0P7H7H	0.00000	0.01136	0.01499

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI31X0P7H7H	A0->Y (FR)	0.09297	0.26122	0.72500
	A1->Y (FR)	0.09087	0.26316	0.74896
	A2->Y (FR)	0.08340	0.24972	0.72497
	B0->Y (FR)	0.02456	0.11883	0.44474

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI31X0P7H7H	A0->Y (RF)	0.04175	0.15147	0.47956
	A1->Y (RF)	0.04004	0.14810	0.47586
	A2->Y (RF)	0.03719	0.14317	0.47068
	B0->Y (RF)	0.03655	0.14045	0.47671

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI31X0P7H7H	A0	0.00130	0.00132	0.00134
	A0	-0.00016	-0.00016	-0.00016
	A0	0.00010	0.00010	0.00010
	A0	-0.00013	-0.00011	-0.00009
	A1	0.00116	0.00118	0.00120
	A1	-0.00011	-0.00011	-0.00011
	A1	0.00010	0.00010	0.00010
	A1	-0.00008	-0.00006	-0.00004
	A2	0.00098	0.00103	0.00106
	A2	-0.00006	-0.00006	-0.00002
	A2	0.00010	0.00010	0.00010
	A2	-0.00009	-0.00007	-0.00004
	B0	0.00100	0.00104	0.00108
	B0	-0.00006	-0.00006	-0.00006
	B0	0.00002	0.00003	0.00004
	B0	-0.00015	-0.00011	-0.00007

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI31X0P7H7H	A0	-0.00009	-0.00008	-0.00007
	A0	0.00016	0.00016	0.00016
	A0	-0.00010	-0.00010	-0.00010
	A0	0.00135	0.00136	0.00137
	A1	-0.00009	-0.00007	-0.00006
	A1	0.00011	0.00011	0.00011
	A1	-0.00010	-0.00010	-0.00010
	A1	0.00119	0.00121	0.00122
	A2	-0.00011	-0.00008	-0.00003
	A2	0.00002	0.00006	0.00007
	A2	-0.00010	-0.00010	-0.00010
	A2	0.00106	0.00109	0.00111
	B0	-0.00013	-0.00010	-0.00006
	B0	0.00016	0.00016	0.00016
	B0	-0.00002	-0.00002	-0.00002
	B0	0.00095	0.00099	0.00103

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X0P7H7H	(A1 * A2 * B0 * !Y)	-0.00010	-0.00009	-0.00008
	(A1 * A2 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * A2 * B0 * !Y)	0.00029	0.00030	0.00030
	(A1 * !B0 * Y)	-0.00010	-0.00009	-0.00008
	(A1 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * Y)	0.00030	0.00030	0.00030
	(A1 * !A2 * B0 * !Y)	-0.00010	-0.00009	-0.00008
	(A1 * !A2 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !Y)	0.00029	0.00030	0.00030
	(!A1 * A2 * B0 * !Y)	-0.00010	-0.00009	-0.00007
	(!A1 * A2 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * B0 * !Y)	0.00029	0.00030	0.00030
	(!A1 * A2 * !B0 * Y)	-0.00010	-0.00009	-0.00007
	(!A1 * A2 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B0 * Y)	0.00029	0.00030	0.00030
	(!A1 * !A2 * !B0 * Y)	-0.00012	-0.00012	-0.00012
	(!A1 * !A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !A2 * !B0 * Y)	0.00025	0.00026	0.00026

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X0P7H7H	(A1 * A2 * B0 * !Y)	0.00010	0.00010	0.00010
	(A1 * A2 * B0 * !Y)	0.00002	0.00002	0.00002
	(A1 * A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * A2 * B0 * !Y)	-0.00030	-0.00030	-0.00029
	(A1 * !B0 * Y)	0.00010	0.00010	0.00010
	(A1 * !B0 * Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * Y)	-0.00030	-0.00030	-0.00030
	(A1 * !A2 * B0 * !Y)	0.00010	0.00010	0.00010
	(A1 * !A2 * B0 * !Y)	0.00002	0.00002	0.00002
	(A1 * !A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * !Y)	-0.00030	-0.00030	-0.00029
	(!A1 * A2 * B0 * !Y)	0.00010	0.00010	0.00010
	(!A1 * A2 * B0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * B0 * !Y)	-0.00030	-0.00030	-0.00029
	(!A1 * A2 * !B0 * Y)	0.00010	0.00010	0.00010
	(!A1 * A2 * !B0 * Y)	0.00002	0.00002	0.00002
	(!A1 * A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B0 * Y)	-0.00030	-0.00030	-0.00029
	(!A1 * !A2 * !B0 * Y)	0.00012	0.00012	0.00013
	(!A1 * !A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B0 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !A2 * !B0 * Y)	-0.00025	-0.00024	-0.00022

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X0P7H7H	(A0 * A2 * B0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A2 * B0 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * A2 * B0 * !Y)	0.00000	0.00000	0.00001
	(A0 * A2 * B0 * !Y)	0.00025	0.00025	0.00025
	(A0 * A2 * !B0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A2 * !B0 * Y)	-0.00006	-0.00006	-0.00006
	(A0 * A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A2 * !B0 * Y)	0.00025	0.00025	0.00025
	(A0 * !A2 * B0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * !A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !Y)	0.00025	0.00025	0.00025
	(A0 * !A2 * !B0 * Y)	-0.00010	-0.00009	-0.00008
	(A0 * !A2 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A2 * !B0 * Y)	0.00000	0.00000	0.00001
	(A0 * !A2 * !B0 * Y)	0.00025	0.00025	0.00025
	(!A0 * A2 * B0 * !Y)	-0.00010	-0.00009	-0.00008
	(!A0 * A2 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * B0 * !Y)	0.00025	0.00025	0.00026
	(!A0 * A2 * !B0 * Y)	-0.00010	-0.00009	-0.00008
	(!A0 * A2 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * !B0 * Y)	0.00025	0.00025	0.00025
	(!A0 * !A2 * !B0 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * !B0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A2 * !B0 * Y)	0.00020	0.00020	0.00020

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X0P7H7H	(A0 * A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * !Y)	0.00006	0.00006	0.00006
	(A0 * A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B0 * !Y)	-0.00025	-0.00025	-0.00025
	(A0 * A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A2 * !B0 * Y)	0.00006	0.00006	0.00006
	(A0 * A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * !B0 * Y)	-0.00025	-0.00025	-0.00025
	(A0 * !A2 * B0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A2 * B0 * !Y)	0.00005	0.00005	0.00005
	(A0 * !A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * B0 * !Y)	-0.00025	-0.00025	-0.00025
	(A0 * !A2 * !B0 * Y)	0.00010	0.00010	0.00010
	(A0 * !A2 * !B0 * Y)	0.00002	0.00002	0.00002
	(A0 * !A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * !B0 * Y)	-0.00025	-0.00025	-0.00025
	(!A0 * A2 * B0 * !Y)	0.00010	0.00010	0.00010
	(!A0 * A2 * B0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * B0 * !Y)	-0.00025	-0.00025	-0.00025
	(!A0 * A2 * !B0 * Y)	0.00010	0.00010	0.00010
	(!A0 * A2 * !B0 * Y)	0.00002	0.00002	0.00002
	(!A0 * A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * !B0 * Y)	-0.00025	-0.00025	-0.00025
	(!A0 * !A2 * !B0 * Y)	0.00013	0.00013	0.00013
	(!A0 * !A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A2 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A2 * !B0 * Y)	-0.00020	-0.00019	-0.00016

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X0P7H7H	(A1 * B0 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * !Y)	-0.00004	-0.00004	-0.00004
	(A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !Y)	0.00032	0.00032	0.00032
	(A1 * !B0 * Y)	-0.00014	-0.00013	-0.00011
	(A1 * !B0 * Y)	-0.00003	-0.00002	-0.00002
	(A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * Y)	0.00024	0.00024	0.00024
	(A0 * !A1 * B0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * !A1 * B0 * !Y)	0.00000	0.00000	0.00001
	(A0 * !A1 * B0 * !Y)	0.00032	0.00032	0.00032
	(A0 * !A1 * !B0 * Y)	-0.00013	-0.00012	-0.00010
	(A0 * !A1 * !B0 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * !A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B0 * Y)	0.00024	0.00024	0.00024
	(!A0 * !A1 * !B0 * Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !B0 * Y)	0.00020	0.00020	0.00020

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X0P7H7H	(A1 * B0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !Y)	0.00004	0.00004	0.00004
	(A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !Y)	-0.00032	-0.00032	-0.00031
	(A1 * !B0 * Y)	0.00014	0.00014	0.00014
	(A1 * !B0 * Y)	0.00002	0.00003	0.00003
	(A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * Y)	-0.00024	-0.00024	-0.00024
	(A0 * !A1 * B0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !Y)	0.00004	0.00004	0.00004
	(A0 * !A1 * B0 * !Y)	-0.00001	-0.00000	-0.00000
	(A0 * !A1 * B0 * !Y)	-0.00032	-0.00032	-0.00032
	(A0 * !A1 * !B0 * Y)	0.00013	0.00013	0.00013
	(A0 * !A1 * !B0 * Y)	0.00002	0.00003	0.00003
	(A0 * !A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !B0 * Y)	-0.00024	-0.00024	-0.00024
	(!A0 * !A1 * !B0 * Y)	0.00017	0.00017	0.00017
	(!A0 * !A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !B0 * Y)	-0.00020	-0.00019	-0.00016

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X0P7H7H	(!A0 * !A1 * !A2 * Y)	-0.00028	-0.00027	-0.00027
	(!A0 * !A1 * !A2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !A2 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * Y)	0.00007	0.00007	0.00007

Passive power(pJ) for B0 falling (conditional):

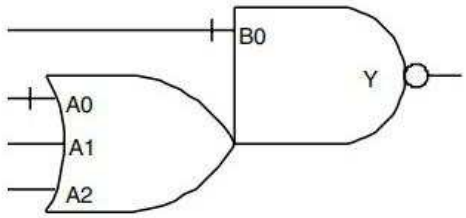
Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X0P7H7H	(!A0 * !A1 * !A2 * Y)	0.00027	0.00028	0.00028
	(!A0 * !A1 * !A2 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !A2 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * Y)	-0.00007	-0.00007	-0.00007

OAI31X1H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI31 cell provides the logical inverted AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	A2	B0	Y
0	0	0	x	1
0	x	1	0	1
0	x	1	1	0
x	1	x	0	1
x	1	x	1	0
1	x	x	0	1
1	x	x	1	0

Footprint

Cell Name	Area
OAI31X1H7H	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	A2	B0	Y
OAI31X1H7H	0.00083	0.00086	0.00093	0.00101	0.01343

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI31X1H7H	0.00000	0.01427	0.01752

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI31X1H7H	A0->Y (FR)	0.08346	0.25417	0.72596
	A1->Y (FR)	0.08065	0.25520	0.74870
	A2->Y (FR)	0.07261	0.24119	0.72482
	B0->Y (FR)	0.02156	0.11579	0.44608

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI31X1H7H	A0->Y (RF)	0.03942	0.15271	0.49368
	A1->Y (RF)	0.03760	0.14892	0.48926
	A2->Y (RF)	0.03423	0.14340	0.48308
	B0->Y (RF)	0.03367	0.14065	0.48790

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI31X1H7H	A0	0.00143	0.00146	0.00148
	A0	-0.00019	-0.00019	-0.00019
	A0	0.00012	0.00012	0.00012
	A0	-0.00013	-0.00011	-0.00009
	A1	0.00125	0.00128	0.00131
	A1	-0.00014	-0.00014	-0.00013
	A1	0.00012	0.00012	0.00012
	A1	-0.00008	-0.00006	-0.00004
	A2	0.00103	0.00109	0.00112
	A2	-0.00007	-0.00007	-0.00007
	A2	0.00012	0.00012	0.00012
	A2	-0.00009	-0.00006	-0.00004
	B0	0.00110	0.00113	0.00118
	B0	-0.00007	-0.00007	-0.00007
	B0	0.00003	0.00003	0.00003
	B0	-0.00015	-0.00011	-0.00006

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI31X1H7H	A0	-0.00011	-0.00009	-0.00008
	A0	0.00019	0.00019	0.00019
	A0	-0.00012	-0.00012	-0.00012
	A0	0.00146	0.00148	0.00149
	A1	-0.00011	-0.00009	-0.00007
	A1	0.00013	0.00014	0.00014
	A1	-0.00012	-0.00012	-0.00012
	A1	0.00128	0.00130	0.00132
	A2	-0.00012	-0.00008	-0.00006
	A2	0.00007	0.00007	0.00008
	A2	-0.00012	-0.00012	-0.00012
	A2	0.00112	0.00115	0.00117
	B0	-0.00014	-0.00011	-0.00007
	B0	0.00019	0.00019	0.00019
	B0	-0.00003	-0.00003	-0.00002
	B0	0.00103	0.00106	0.00110

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X1H7H	(A1 * A2 * B0 * !Y)	-0.00012	-0.00011	-0.00009
	(A1 * A2 * B0 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * A2 * B0 * !Y)	0.00000	0.00001	0.00001
	(A1 * A2 * B0 * !Y)	0.00031	0.00031	0.00031
	(A1 * !B0 * Y)	-0.00012	-0.00011	-0.00009
	(A1 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * Y)	0.00031	0.00031	0.00031
	(A1 * !A2 * B0 * !Y)	-0.00012	-0.00011	-0.00009
	(A1 * !A2 * B0 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * !A2 * B0 * !Y)	0.00000	0.00001	0.00001
	(A1 * !A2 * B0 * !Y)	0.00031	0.00031	0.00031
	(!A1 * A2 * B0 * !Y)	-0.00011	-0.00010	-0.00008
	(!A1 * A2 * B0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A1 * A2 * B0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * A2 * B0 * !Y)	0.00031	0.00031	0.00031
	(!A1 * A2 * !B0 * Y)	-0.00012	-0.00010	-0.00008
	(!A1 * A2 * !B0 * Y)	-0.00003	-0.00003	-0.00002
	(!A1 * A2 * !B0 * Y)	0.00000	0.00001	0.00001
	(!A1 * A2 * !B0 * Y)	0.00031	0.00031	0.00031
	(!A1 * !A2 * !B0 * Y)	-0.00015	-0.00015	-0.00015
	(!A1 * !A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !A2 * !B0 * Y)	0.00026	0.00027	0.00027

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X1H7H	(A1 * A2 * B0 * !Y)	0.00012	0.00012	0.00012
	(A1 * A2 * B0 * !Y)	0.00003	0.00003	0.00003
	(A1 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * A2 * B0 * !Y)	-0.00031	-0.00031	-0.00031
	(A1 * !B0 * Y)	0.00012	0.00012	0.00012
	(A1 * !B0 * Y)	0.00003	0.00003	0.00003
	(A1 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * Y)	-0.00031	-0.00031	-0.00031
	(A1 * !A2 * B0 * !Y)	0.00012	0.00012	0.00012
	(A1 * !A2 * B0 * !Y)	0.00003	0.00003	0.00003
	(A1 * !A2 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * B0 * !Y)	-0.00031	-0.00031	-0.00031
	(!A1 * A2 * B0 * !Y)	0.00011	0.00011	0.00011
	(!A1 * A2 * B0 * !Y)	0.00003	0.00003	0.00003
	(!A1 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * A2 * B0 * !Y)	-0.00031	-0.00031	-0.00031
	(!A1 * A2 * !B0 * Y)	0.00011	0.00012	0.00012
	(!A1 * A2 * !B0 * Y)	0.00002	0.00003	0.00003
	(!A1 * A2 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * A2 * !B0 * Y)	-0.00031	-0.00031	-0.00031
	(!A1 * !A2 * !B0 * Y)	0.00015	0.00015	0.00015
	(!A1 * !A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !A2 * !B0 * Y)	-0.00027	-0.00025	-0.00023

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X1H7H	(A0 * A2 * B0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A2 * B0 * !Y)	-0.00008	-0.00007	-0.00007
	(A0 * A2 * B0 * !Y)	0.00000	0.00001	0.00001
	(A0 * A2 * B0 * !Y)	0.00027	0.00027	0.00027
	(A0 * A2 * !B0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A2 * !B0 * Y)	-0.00008	-0.00008	-0.00008
	(A0 * A2 * !B0 * Y)	0.00000	0.00001	0.00001
	(A0 * A2 * !B0 * Y)	0.00026	0.00027	0.00027
	(A0 * !A2 * B0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * !A2 * B0 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A2 * B0 * !Y)	0.00026	0.00027	0.00027
	(A0 * !A2 * !B0 * Y)	-0.00012	-0.00011	-0.00010
	(A0 * !A2 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * !A2 * !B0 * Y)	0.00000	0.00001	0.00001
	(A0 * !A2 * !B0 * Y)	0.00026	0.00026	0.00027
	(!A0 * A2 * B0 * !Y)	-0.00012	-0.00011	-0.00009
	(!A0 * A2 * B0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A2 * B0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A2 * B0 * !Y)	0.00026	0.00027	0.00027
	(!A0 * A2 * !B0 * Y)	-0.00012	-0.00011	-0.00009
	(!A0 * A2 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A2 * !B0 * Y)	0.00000	0.00001	0.00001
	(!A0 * A2 * !B0 * Y)	0.00026	0.00026	0.00026
	(!A0 * !A2 * !B0 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * !B0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A2 * !B0 * Y)	0.00021	0.00022	0.00022

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X1H7H	(A0 * A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * !Y)	0.00007	0.00007	0.00008
	(A0 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A2 * B0 * !Y)	-0.00027	-0.00026	-0.00026
	(A0 * A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A2 * !B0 * Y)	0.00008	0.00008	0.00008
	(A0 * A2 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A2 * !B0 * Y)	-0.00027	-0.00026	-0.00026
	(A0 * !A2 * B0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A2 * B0 * !Y)	0.00006	0.00006	0.00006
	(A0 * !A2 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A2 * B0 * !Y)	-0.00027	-0.00026	-0.00026
	(A0 * !A2 * !B0 * Y)	0.00012	0.00012	0.00012
	(A0 * !A2 * !B0 * Y)	0.00003	0.00003	0.00003
	(A0 * !A2 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A2 * !B0 * Y)	-0.00027	-0.00026	-0.00026
	(!A0 * A2 * B0 * !Y)	0.00012	0.00012	0.00012
	(!A0 * A2 * B0 * !Y)	0.00003	0.00003	0.00003
	(!A0 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A2 * B0 * !Y)	-0.00026	-0.00026	-0.00026
	(!A0 * A2 * !B0 * Y)	0.00012	0.00012	0.00012
	(!A0 * A2 * !B0 * Y)	0.00003	0.00003	0.00003
	(!A0 * A2 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A2 * !B0 * Y)	-0.00026	-0.00026	-0.00026
	(!A0 * !A2 * !B0 * Y)	0.00015	0.00015	0.00016
	(!A0 * !A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A2 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A2 * !B0 * Y)	-0.00022	-0.00020	-0.00018

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X1H7H	(A1 * B0 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * !Y)	-0.00004	-0.00004	-0.00004
	(A1 * B0 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !Y)	0.00033	0.00033	0.00033
	(A1 * !B0 * Y)	-0.00014	-0.00013	-0.00011
	(A1 * !B0 * Y)	-0.00003	-0.00003	-0.00002
	(A1 * !B0 * Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * Y)	0.00026	0.00026	0.00026
	(A0 * !A1 * B0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * B0 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * !A1 * B0 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * B0 * !Y)	0.00033	0.00033	0.00033
	(A0 * !A1 * !B0 * Y)	-0.00013	-0.00012	-0.00010
	(A0 * !A1 * !B0 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * !A1 * !B0 * Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * !B0 * Y)	0.00026	0.00026	0.00026
	(!A0 * !A1 * !B0 * Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !B0 * Y)	0.00021	0.00021	0.00021

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X1H7H	(A1 * B0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !Y)	0.00004	0.00004	0.00004
	(A1 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !Y)	-0.00033	-0.00033	-0.00033
	(A1 * !B0 * Y)	0.00014	0.00014	0.00014
	(A1 * !B0 * Y)	0.00003	0.00003	0.00003
	(A1 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * Y)	-0.00026	-0.00026	-0.00026
	(A0 * !A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !Y)	0.00004	0.00004	0.00004
	(A0 * !A1 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B0 * !Y)	-0.00033	-0.00033	-0.00033
	(A0 * !A1 * !B0 * Y)	0.00013	0.00013	0.00013
	(A0 * !A1 * !B0 * Y)	0.00002	0.00003	0.00003
	(A0 * !A1 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !B0 * Y)	-0.00026	-0.00026	-0.00026
	(!A0 * !A1 * !B0 * Y)	0.00017	0.00017	0.00017
	(!A0 * !A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !B0 * Y)	-0.00021	-0.00019	-0.00017

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X1H7H	(!A0 * !A1 * !A2 * Y)	-0.00029	-0.00029	-0.00029
	(!A0 * !A1 * !A2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !A2 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * Y)	0.00007	0.00007	0.00008

Passive power(pJ) for B0 falling (conditional):

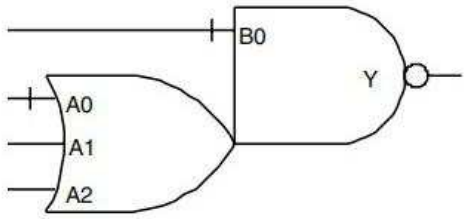
Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X1H7H	(!A0 * !A1 * !A2 * Y)	0.00029	0.00029	0.00029
	(!A0 * !A1 * !A2 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !A2 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * Y)	-0.00007	-0.00007	-0.00007

OAI31X1P4H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI31 cell provides the logical inverted AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	A2	B0	Y
0	0	0	x	1
0	x	1	0	1
0	x	1	1	0
x	1	x	0	1
x	1	x	1	0
1	x	x	0	1
1	x	x	1	0

Footprint

Cell Name	Area
OAI31X1P4H7H	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	A2	B0	Y
OAI31X1P4H7H	0.00090	0.00095	0.00103	0.00112	0.01525

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI31X1P4H7H	0.00000	0.01806	0.02852

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI31X1P4H7H	A0->Y (FR)	0.08178	0.25389	0.72903
	A1->Y (FR)	0.07994	0.25571	0.75320
	A2->Y (FR)	0.07158	0.24141	0.72896
	B0->Y (FR)	0.02074	0.11515	0.44742

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI31X1P4H7H	A0->Y (RF)	0.03914	0.15386	0.49884
	A1->Y (RF)	0.03752	0.15032	0.49425
	A2->Y (RF)	0.03418	0.14465	0.48921
	B0->Y (RF)	0.03271	0.14050	0.49009

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI31X1P4H7H	A0	0.00165	0.00168	0.00170
	A0	-0.00022	-0.00022	-0.00022
	A0	0.00014	0.00014	0.00014
	A0	-0.00012	-0.00010	-0.00008
	A1	0.00146	0.00149	0.00151
	A1	-0.00016	-0.00016	-0.00016
	A1	0.00014	0.00014	0.00014
	A1	-0.00007	-0.00004	-0.00002
	A2	0.00121	0.00126	0.00130
	A2	-0.00008	-0.00008	-0.00007
	A2	0.00014	0.00014	0.00014
	A2	-0.00009	-0.00006	-0.00002
	B0	0.00124	0.00128	0.00133
	B0	-0.00009	-0.00008	-0.00008
	B0	0.00003	0.00003	0.00004
	B0	-0.00018	-0.00014	-0.00008

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI31X1P4H7H	A0	-0.00012	-0.00011	-0.00009
	A0	0.00022	0.00022	0.00022
	A0	-0.00014	-0.00014	-0.00014
	A0	0.00165	0.00167	0.00169
	A1	-0.00013	-0.00010	-0.00008
	A1	0.00016	0.00016	0.00016
	A1	-0.00014	-0.00014	-0.00014
	A1	0.00145	0.00148	0.00150
	A2	-0.00014	-0.00010	-0.00007
	A2	0.00008	0.00009	0.00009
	A2	-0.00014	-0.00014	-0.00014
	A2	0.00128	0.00131	0.00134
	B0	-0.00016	-0.00012	-0.00008
	B0	0.00022	0.00022	0.00022
	B0	-0.00004	-0.00003	-0.00003
	B0	0.00116	0.00121	0.00125

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X1P4H7H	(A1 * A2 * B0 * !Y)	-0.00014	-0.00012	-0.00011
	(A1 * A2 * B0 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * A2 * B0 * !Y)	0.00000	0.00001	0.00001
	(A1 * A2 * B0 * !Y)	0.00032	0.00032	0.00032
	(A1 * !B0 * Y)	-0.00014	-0.00012	-0.00011
	(A1 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * Y)	0.00032	0.00032	0.00032
	(A1 * !A2 * B0 * !Y)	-0.00014	-0.00013	-0.00011
	(A1 * !A2 * B0 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * !A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * !Y)	0.00032	0.00032	0.00032
	(!A1 * A2 * B0 * !Y)	-0.00013	-0.00012	-0.00010
	(!A1 * A2 * B0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1 * A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * B0 * !Y)	0.00032	0.00032	0.00032
	(!A1 * A2 * !B0 * Y)	-0.00013	-0.00012	-0.00010
	(!A1 * A2 * !B0 * Y)	-0.00003	-0.00003	-0.00002
	(!A1 * A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * Y)	0.00032	0.00032	0.00032
	(!A1 * !A2 * !B0 * Y)	-0.00017	-0.00017	-0.00017
	(!A1 * !A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !A2 * !B0 * Y)	0.00027	0.00028	0.00028

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X1P4H7H	(A1 * A2 * B0 * !Y)	0.00013	0.00013	0.00014
	(A1 * A2 * B0 * !Y)	0.00003	0.00003	0.00003
	(A1 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * A2 * B0 * !Y)	-0.00032	-0.00032	-0.00032
	(A1 * !B0 * Y)	0.00013	0.00014	0.00014
	(A1 * !B0 * Y)	0.00003	0.00003	0.00003
	(A1 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * Y)	-0.00032	-0.00032	-0.00032
	(A1 * !A2 * B0 * !Y)	0.00014	0.00014	0.00014
	(A1 * !A2 * B0 * !Y)	0.00003	0.00003	0.00003
	(A1 * !A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * !Y)	-0.00032	-0.00032	-0.00032
	(!A1 * A2 * B0 * !Y)	0.00013	0.00013	0.00013
	(!A1 * A2 * B0 * !Y)	0.00003	0.00003	0.00003
	(!A1 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * B0 * !Y)	-0.00032	-0.00032	-0.00032
	(!A1 * A2 * !B0 * Y)	0.00013	0.00013	0.00013
	(!A1 * A2 * !B0 * Y)	0.00002	0.00003	0.00003
	(!A1 * A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * Y)	-0.00032	-0.00032	-0.00032
	(!A1 * !A2 * !B0 * Y)	0.00017	0.00017	0.00017
	(!A1 * !A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !A2 * !B0 * Y)	-0.00028	-0.00026	-0.00024

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X1P4H7H	(A0 * A2 * B0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A2 * B0 * !Y)	-0.00009	-0.00009	-0.00008
	(A0 * A2 * B0 * !Y)	0.00000	0.00001	0.00001
	(A0 * A2 * B0 * !Y)	0.00028	0.00029	0.00029
	(A0 * A2 * !B0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A2 * !B0 * Y)	-0.00009	-0.00009	-0.00009
	(A0 * A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(A0 * A2 * !B0 * Y)	0.00028	0.00028	0.00028
	(A0 * !A2 * B0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !Y)	-0.00007	-0.00007	-0.00007
	(A0 * !A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * B0 * !Y)	0.00028	0.00028	0.00029
	(A0 * !A2 * !B0 * Y)	-0.00014	-0.00013	-0.00011
	(A0 * !A2 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * !A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B0 * Y)	0.00028	0.00028	0.00028
	(!A0 * A2 * B0 * !Y)	-0.00014	-0.00013	-0.00010
	(!A0 * A2 * B0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A2 * B0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A2 * B0 * !Y)	0.00028	0.00028	0.00029
	(!A0 * A2 * !B0 * Y)	-0.00014	-0.00013	-0.00011
	(!A0 * A2 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * !B0 * Y)	0.00028	0.00028	0.00028
	(!A0 * !A2 * !B0 * Y)	-0.00018	-0.00017	-0.00017
	(!A0 * !A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * !B0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A2 * !B0 * Y)	0.00022	0.00022	0.00023

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X1P4H7H	(A0 * A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * !Y)	0.00008	0.00009	0.00009
	(A0 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A2 * B0 * !Y)	-0.00029	-0.00028	-0.00028
	(A0 * A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A2 * !B0 * Y)	0.00009	0.00009	0.00009
	(A0 * A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A2 * !B0 * Y)	-0.00028	-0.00028	-0.00028
	(A0 * !A2 * B0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A2 * B0 * !Y)	0.00007	0.00007	0.00007
	(A0 * !A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * B0 * !Y)	-0.00028	-0.00028	-0.00028
	(A0 * !A2 * !B0 * Y)	0.00014	0.00014	0.00014
	(A0 * !A2 * !B0 * Y)	0.00003	0.00003	0.00003
	(A0 * !A2 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A2 * !B0 * Y)	-0.00028	-0.00028	-0.00028
	(!A0 * A2 * B0 * !Y)	0.00014	0.00014	0.00014
	(!A0 * A2 * B0 * !Y)	0.00003	0.00003	0.00003
	(!A0 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A2 * B0 * !Y)	-0.00028	-0.00028	-0.00028
	(!A0 * A2 * !B0 * Y)	0.00014	0.00014	0.00014
	(!A0 * A2 * !B0 * Y)	0.00003	0.00003	0.00003
	(!A0 * A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * !B0 * Y)	-0.00028	-0.00028	-0.00028
	(!A0 * !A2 * !B0 * Y)	0.00018	0.00018	0.00018
	(!A0 * !A2 * !B0 * Y)	0.00001	0.00001	0.00002
	(!A0 * !A2 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A2 * !B0 * Y)	-0.00023	-0.00021	-0.00018

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X1P4H7H	(A1 * B0 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * !Y)	-0.00005	-0.00005	-0.00005
	(A1 * B0 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !Y)	0.00036	0.00037	0.00037
	(A1 * !B0 * Y)	-0.00017	-0.00016	-0.00013
	(A1 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * Y)	0.00027	0.00027	0.00028
	(A0 * !A1 * B0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !Y)	-0.00005	-0.00005	-0.00004
	(A0 * !A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B0 * !Y)	0.00036	0.00037	0.00037
	(A0 * !A1 * !B0 * Y)	-0.00016	-0.00015	-0.00012
	(A0 * !A1 * !B0 * Y)	-0.00004	-0.00003	-0.00003
	(A0 * !A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B0 * Y)	0.00027	0.00028	0.00028
	(!A0 * !A1 * !B0 * Y)	-0.00021	-0.00020	-0.00020
	(!A0 * !A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !B0 * Y)	0.00022	0.00022	0.00022

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X1P4H7H	(A1 * B0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !Y)	0.00005	0.00005	0.00005
	(A1 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !Y)	-0.00037	-0.00036	-0.00036
	(A1 * !B0 * Y)	0.00017	0.00017	0.00017
	(A1 * !B0 * Y)	0.00003	0.00003	0.00003
	(A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * Y)	-0.00027	-0.00027	-0.00027
	(A0 * !A1 * B0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !Y)	0.00004	0.00005	0.00005
	(A0 * !A1 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B0 * !Y)	-0.00037	-0.00036	-0.00036
	(A0 * !A1 * !B0 * Y)	0.00016	0.00016	0.00016
	(A0 * !A1 * !B0 * Y)	0.00003	0.00003	0.00004
	(A0 * !A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B0 * Y)	-0.00028	-0.00027	-0.00027
	(!A0 * !A1 * !B0 * Y)	0.00020	0.00020	0.00021
	(!A0 * !A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !B0 * Y)	-0.00022	-0.00021	-0.00018

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X1P4H7H	(!A0 * !A1 * !A2 * Y)	-0.00032	-0.00032	-0.00032
	(!A0 * !A1 * !A2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !A2 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !A2 * Y)	0.00008	0.00008	0.00008

Passive power(pJ) for B0 falling (conditional):

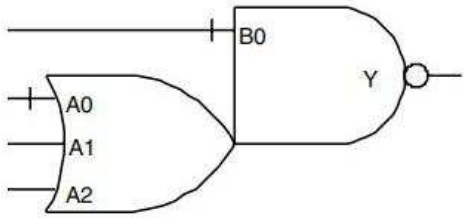
Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X1P4H7H	(!A0 * !A1 * !A2 * Y)	0.00032	0.00032	0.00033
	(!A0 * !A1 * !A2 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !A2 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !A2 * Y)	-0.00008	-0.00008	-0.00008

OAI31X2H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI31 cell provides the logical inverted AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	A2	B0	Y
0	0	0	x	1
0	x	1	0	1
0	x	1	1	0
x	1	x	0	1
x	1	x	1	0
1	x	x	0	1
1	x	x	1	0

Footprint

Cell Name	Area
OAI31X2H7H	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	A2	B0	Y
OAI31X2H7H	0.00104	0.00103	0.00119	0.00124	0.01760

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI31X2H7H	0.00000	0.02500	0.04808

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI31X2H7H	A0->Y (FR)	0.07892	0.25234	0.73163
	A1->Y (FR)	0.07609	0.25314	0.75437
	A2->Y (FR)	0.06919	0.23985	0.73071
	B0->Y (FR)	0.01994	0.11477	0.44935

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI31X2H7H	A0->Y (RF)	0.03709	0.15089	0.49528
	A1->Y (RF)	0.03533	0.14700	0.49098
	A2->Y (RF)	0.03257	0.14180	0.48550
	B0->Y (RF)	0.03139	0.13844	0.48656

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI31X2H7H	A0	0.00189	0.00192	0.00195
	A0	-0.00027	-0.00027	-0.00026
	A0	0.00017	0.00017	0.00017
	A0	-0.00018	-0.00015	-0.00013
	A1	0.00165	0.00168	0.00171
	A1	-0.00019	-0.00019	-0.00019
	A1	0.00017	0.00017	0.00017
	A1	-0.00010	-0.00007	-0.00005
	A2	0.00136	0.00143	0.00148
	A2	-0.00010	-0.00010	-0.00010
	A2	0.00017	0.00017	0.00017
	A2	-0.00013	-0.00008	-0.00004
	B0	0.00146	0.00150	0.00156
	B0	-0.00010	-0.00010	-0.00010
	B0	0.00004	0.00004	0.00005
	B0	-0.00019	-0.00013	-0.00007

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI31X2H7H	A0	-0.00015	-0.00013	-0.00011
	A0	0.00026	0.00027	0.00027
	A0	-0.00017	-0.00017	-0.00017
	A0	0.00191	0.00194	0.00196
	A1	-0.00015	-0.00012	-0.00010
	A1	0.00019	0.00019	0.00019
	A1	-0.00017	-0.00017	-0.00017
	A1	0.00166	0.00169	0.00171
	A2	-0.00017	-0.00012	-0.00008
	A2	0.00010	0.00010	0.00012
	A2	-0.00017	-0.00017	-0.00017
	A2	0.00145	0.00150	0.00154
	B0	-0.00019	-0.00014	-0.00010
	B0	0.00026	0.00027	0.00027
	B0	-0.00004	-0.00004	-0.00004
	B0	0.00134	0.00139	0.00144

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X2H7H	(A1 * A2 * B0 * !Y)	-0.00016	-0.00015	-0.00012
	(A1 * A2 * B0 * !Y)	-0.00004	-0.00003	-0.00003
	(A1 * A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * A2 * B0 * !Y)	0.00037	0.00038	0.00038
	(A1 * !B0 * Y)	-0.00016	-0.00015	-0.00013
	(A1 * !B0 * Y)	-0.00004	-0.00003	-0.00003
	(A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * Y)	0.00037	0.00038	0.00038
	(A1 * !A2 * B0 * !Y)	-0.00016	-0.00015	-0.00013
	(A1 * !A2 * B0 * !Y)	-0.00004	-0.00003	-0.00003
	(A1 * !A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * !Y)	0.00037	0.00038	0.00038
	(!A1 * A2 * B0 * !Y)	-0.00015	-0.00014	-0.00012
	(!A1 * A2 * B0 * !Y)	-0.00004	-0.00003	-0.00003
	(!A1 * A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * B0 * !Y)	0.00037	0.00038	0.00038
	(!A1 * A2 * !B0 * Y)	-0.00016	-0.00014	-0.00011
	(!A1 * A2 * !B0 * Y)	-0.00004	-0.00003	-0.00003
	(!A1 * A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * Y)	0.00037	0.00038	0.00038
	(!A1 * !A2 * !B0 * Y)	-0.00020	-0.00020	-0.00020
	(!A1 * !A2 * !B0 * Y)	-0.00002	-0.00001	-0.00001
	(!A1 * !A2 * !B0 * Y)	0.00002	0.00003	0.00003
	(!A1 * !A2 * !B0 * Y)	0.00032	0.00032	0.00032

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X2H7H	(A1 * A2 * B0 * !Y)	0.00016	0.00016	0.00016
	(A1 * A2 * B0 * !Y)	0.00003	0.00003	0.00004
	(A1 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B0 * !Y)	-0.00038	-0.00037	-0.00037
	(A1 * !B0 * Y)	0.00016	0.00016	0.00016
	(A1 * !B0 * Y)	0.00003	0.00003	0.00004
	(A1 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * Y)	-0.00038	-0.00038	-0.00037
	(A1 * !A2 * B0 * !Y)	0.00016	0.00016	0.00016
	(A1 * !A2 * B0 * !Y)	0.00003	0.00003	0.00004
	(A1 * !A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * !Y)	-0.00038	-0.00038	-0.00037
	(!A1 * A2 * B0 * !Y)	0.00015	0.00015	0.00016
	(!A1 * A2 * B0 * !Y)	0.00003	0.00003	0.00004
	(!A1 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * B0 * !Y)	-0.00038	-0.00037	-0.00037
	(!A1 * A2 * !B0 * Y)	0.00015	0.00015	0.00016
	(!A1 * A2 * !B0 * Y)	0.00003	0.00004	0.00004
	(!A1 * A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * Y)	-0.00038	-0.00037	-0.00037
	(!A1 * !A2 * !B0 * Y)	0.00020	0.00020	0.00020
	(!A1 * !A2 * !B0 * Y)	0.00001	0.00002	0.00002
	(!A1 * !A2 * !B0 * Y)	-0.00003	-0.00003	-0.00002
	(!A1 * !A2 * !B0 * Y)	-0.00032	-0.00030	-0.00028

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X2H7H	(A0 * A2 * B0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A2 * B0 * !Y)	-0.00010	-0.00010	-0.00010
	(A0 * A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A2 * B0 * !Y)	0.00031	0.00031	0.00031
	(A0 * A2 * !B0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A2 * !B0 * Y)	-0.00010	-0.00010	-0.00010
	(A0 * A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(A0 * A2 * !B0 * Y)	0.00031	0.00031	0.00031
	(A0 * !A2 * B0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A2 * B0 * !Y)	-0.00008	-0.00008	-0.00008
	(A0 * !A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * B0 * !Y)	0.00031	0.00031	0.00031
	(A0 * !A2 * !B0 * Y)	-0.00017	-0.00015	-0.00013
	(A0 * !A2 * !B0 * Y)	-0.00004	-0.00003	-0.00003
	(A0 * !A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B0 * Y)	0.00030	0.00030	0.00031
	(!A0 * A2 * B0 * !Y)	-0.00017	-0.00015	-0.00012
	(!A0 * A2 * B0 * !Y)	-0.00004	-0.00004	-0.00003
	(!A0 * A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * B0 * !Y)	0.00030	0.00031	0.00032
	(!A0 * A2 * !B0 * Y)	-0.00016	-0.00015	-0.00012
	(!A0 * A2 * !B0 * Y)	-0.00004	-0.00004	-0.00003
	(!A0 * A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * !B0 * Y)	0.00030	0.00030	0.00031
	(!A0 * !A2 * !B0 * Y)	-0.00021	-0.00021	-0.00020
	(!A0 * !A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * !B0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A2 * !B0 * Y)	0.00024	0.00024	0.00025

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X2H7H	(A0 * A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * !Y)	0.00010	0.00010	0.00010
	(A0 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A2 * B0 * !Y)	-0.00031	-0.00031	-0.00030
	(A0 * A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A2 * !B0 * Y)	0.00010	0.00010	0.00010
	(A0 * A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A2 * !B0 * Y)	-0.00031	-0.00031	-0.00030
	(A0 * !A2 * B0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !Y)	0.00008	0.00008	0.00008
	(A0 * !A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * B0 * !Y)	-0.00031	-0.00031	-0.00030
	(A0 * !A2 * !B0 * Y)	0.00016	0.00016	0.00017
	(A0 * !A2 * !B0 * Y)	0.00003	0.00003	0.00004
	(A0 * !A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B0 * Y)	-0.00030	-0.00030	-0.00030
	(!A0 * A2 * B0 * !Y)	0.00016	0.00016	0.00017
	(!A0 * A2 * B0 * !Y)	0.00003	0.00004	0.00004
	(!A0 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B0 * !Y)	-0.00030	-0.00030	-0.00030
	(!A0 * A2 * !B0 * Y)	0.00016	0.00016	0.00016
	(!A0 * A2 * !B0 * Y)	0.00004	0.00004	0.00004
	(!A0 * A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * !B0 * Y)	-0.00031	-0.00030	-0.00030
	(!A0 * !A2 * !B0 * Y)	0.00021	0.00021	0.00021
	(!A0 * !A2 * !B0 * Y)	0.00001	0.00002	0.00002
	(!A0 * !A2 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A2 * !B0 * Y)	-0.00025	-0.00023	-0.00020

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X2H7H	(A1 * B0 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * !Y)	-0.00005	-0.00005	-0.00005
	(A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !Y)	0.00042	0.00042	0.00042
	(A1 * !B0 * Y)	-0.00022	-0.00020	-0.00017
	(A1 * !B0 * Y)	-0.00004	-0.00004	-0.00003
	(A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * Y)	0.00029	0.00029	0.00029
	(A0 * !A1 * B0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * B0 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * !A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B0 * !Y)	0.00042	0.00042	0.00042
	(A0 * !A1 * !B0 * Y)	-0.00021	-0.00019	-0.00016
	(A0 * !A1 * !B0 * Y)	-0.00004	-0.00004	-0.00003
	(A0 * !A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B0 * Y)	0.00029	0.00029	0.00029
	(!A0 * !A1 * !B0 * Y)	-0.00026	-0.00026	-0.00026
	(!A0 * !A1 * !B0 * Y)	-0.00001	-0.00002	-0.00001
	(!A0 * !A1 * !B0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !B0 * Y)	0.00023	0.00023	0.00024

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X2H7H	(A1 * B0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !Y)	0.00005	0.00006	0.00006
	(A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !Y)	-0.00042	-0.00042	-0.00041
	(A1 * !B0 * Y)	0.00021	0.00021	0.00022
	(A1 * !B0 * Y)	0.00003	0.00004	0.00004
	(A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * Y)	-0.00029	-0.00029	-0.00029
	(A0 * !A1 * B0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !Y)	0.00005	0.00006	0.00006
	(A0 * !A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B0 * !Y)	-0.00042	-0.00042	-0.00042
	(A0 * !A1 * !B0 * Y)	0.00021	0.00021	0.00021
	(A0 * !A1 * !B0 * Y)	0.00004	0.00004	0.00004
	(A0 * !A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B0 * Y)	-0.00029	-0.00029	-0.00029
	(!A0 * !A1 * !B0 * Y)	0.00026	0.00026	0.00026
	(!A0 * !A1 * !B0 * Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !B0 * Y)	-0.00024	-0.00021	-0.00019

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X2H7H	(!A0 * !A1 * !A2 * Y)	-0.00037	-0.00036	-0.00036
	(!A0 * !A1 * !A2 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * !A2 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !A2 * Y)	0.00007	0.00007	0.00007

Passive power(pJ) for B0 falling (conditional):

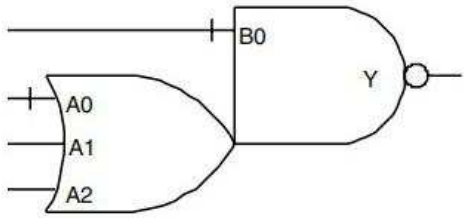
Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X2H7H	(!A0 * !A1 * !A2 * Y)	0.00037	0.00037	0.00037
	(!A0 * !A1 * !A2 * Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * !A2 * Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !A1 * !A2 * Y)	-0.00007	-0.00007	-0.00007

OAI31X3H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI31 cell provides the logical inverted AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	A2	B0	Y
0	0	0	x	1
0	x	1	0	1
0	x	1	1	0
x	1	x	0	1
x	1	x	1	0
1	x	x	0	1
1	x	x	1	0

Footprint

Cell Name	Area
OAI31X3H7H	3.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	A2	B0	Y
OAI31X3H7H	0.00181	0.00186	0.00237	0.00199	0.02797

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI31X3H7H	0.00000	0.03155	0.04401

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI31X3H7H	A0->Y (FR)	0.07925	0.25152	0.72895
	A1->Y (FR)	0.07500	0.25114	0.75119
	A2->Y (FR)	0.07167	0.24119	0.73026
	B0->Y (FR)	0.01954	0.11337	0.44677

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI31X3H7H	A0->Y (RF)	0.03708	0.15076	0.49413
	A1->Y (RF)	0.03495	0.14639	0.48907
	A2->Y (RF)	0.03378	0.14297	0.48630
	B0->Y (RF)	0.03020	0.13710	0.48622

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI31X3H7H	A0	0.00318	0.00324	0.00329
	A0	-0.00041	-0.00040	-0.00040
	A0	0.00026	0.00026	0.00026
	A0	-0.00022	-0.00017	-0.00012
	A1	0.00279	0.00284	0.00289
	A1	-0.00029	-0.00028	-0.00028
	A1	0.00026	0.00026	0.00026
	A1	-0.00013	-0.00008	-0.00004
	A2	0.00242	0.00254	0.00264
	A2	-0.00015	-0.00015	-0.00015
	A2	0.00026	0.00026	0.00026
	A2	-0.00024	-0.00016	-0.00007
	B0	0.00243	0.00251	0.00260
	B0	-0.00016	-0.00015	-0.00014
	B0	0.00006	0.00006	0.00007
	B0	-0.00027	-0.00018	-0.00009

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI31X3H7H	A0	-0.00023	-0.00020	-0.00017
	A0	0.00040	0.00040	0.00041
	A0	-0.00026	-0.00026	-0.00026
	A0	0.00318	0.00323	0.00326
	A1	-0.00023	-0.00019	-0.00016
	A1	0.00028	0.00028	0.00029
	A1	-0.00026	-0.00026	-0.00026
	A1	0.00279	0.00284	0.00287
	A2	-0.00032	-0.00021	-0.00014
	A2	0.00015	0.00015	0.00023
	A2	-0.00026	-0.00026	-0.00026
	A2	0.00257	0.00267	0.00274
	B0	-0.00030	-0.00022	-0.00015
	B0	0.00040	0.00040	0.00041
	B0	-0.00006	-0.00006	-0.00006
	B0	0.00224	0.00232	0.00240

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X3H7H	(A1 * A2 * B0 * !Y)	-0.00025	-0.00023	-0.00020
	(A1 * A2 * B0 * !Y)	-0.00005	-0.00005	-0.00005
	(A1 * A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * A2 * B0 * !Y)	0.00062	0.00063	0.00063
	(A1 * !B0 * Y)	-0.00025	-0.00023	-0.00020
	(A1 * !B0 * Y)	-0.00005	-0.00005	-0.00005
	(A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * Y)	0.00062	0.00063	0.00063
	(A1 * !A2 * B0 * !Y)	-0.00025	-0.00023	-0.00019
	(A1 * !A2 * B0 * !Y)	-0.00005	-0.00005	-0.00005
	(A1 * !A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * !Y)	0.00062	0.00062	0.00063
	(!A1 * A2 * B0 * !Y)	-0.00024	-0.00021	-0.00018
	(!A1 * A2 * B0 * !Y)	-0.00006	-0.00006	-0.00005
	(!A1 * A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * B0 * !Y)	0.00062	0.00062	0.00063
	(!A1 * A2 * !B0 * Y)	-0.00024	-0.00021	-0.00018
	(!A1 * A2 * !B0 * Y)	-0.00005	-0.00005	-0.00005
	(!A1 * A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * Y)	0.00062	0.00062	0.00063
	(!A1 * !A2 * !B0 * Y)	-0.00031	-0.00031	-0.00031
	(!A1 * !A2 * !B0 * Y)	-0.00003	-0.00002	-0.00002
	(!A1 * !A2 * !B0 * Y)	0.00004	0.00004	0.00004
	(!A1 * !A2 * !B0 * Y)	0.00051	0.00052	0.00052

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X3H7H	(A1 * A2 * B0 * !Y)	0.00025	0.00025	0.00025
	(A1 * A2 * B0 * !Y)	0.00005	0.00005	0.00005
	(A1 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B0 * !Y)	-0.00063	-0.00062	-0.00062
	(A1 * !B0 * Y)	0.00025	0.00025	0.00025
	(A1 * !B0 * Y)	0.00005	0.00005	0.00005
	(A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * Y)	-0.00063	-0.00062	-0.00062
	(A1 * !A2 * B0 * !Y)	0.00025	0.00025	0.00025
	(A1 * !A2 * B0 * !Y)	0.00005	0.00005	0.00005
	(A1 * !A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * !Y)	-0.00063	-0.00062	-0.00062
	(!A1 * A2 * B0 * !Y)	0.00024	0.00024	0.00024
	(!A1 * A2 * B0 * !Y)	0.00005	0.00006	0.00006
	(!A1 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * B0 * !Y)	-0.00063	-0.00062	-0.00062
	(!A1 * A2 * !B0 * Y)	0.00024	0.00024	0.00024
	(!A1 * A2 * !B0 * Y)	0.00005	0.00005	0.00005
	(!A1 * A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * Y)	-0.00062	-0.00062	-0.00062
	(!A1 * !A2 * !B0 * Y)	0.00031	0.00031	0.00032
	(!A1 * !A2 * !B0 * Y)	0.00002	0.00003	0.00003
	(!A1 * !A2 * !B0 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * !A2 * !B0 * Y)	-0.00052	-0.00049	-0.00043

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X3H7H	(A0 * A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B0 * !Y)	-0.00016	-0.00015	-0.00015
	(A0 * A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A2 * B0 * !Y)	0.00053	0.00053	0.00053
	(A0 * A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * !B0 * Y)	-0.00016	-0.00016	-0.00016
	(A0 * A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(A0 * A2 * !B0 * Y)	0.00053	0.00053	0.00053
	(A0 * !A2 * B0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !Y)	-0.00013	-0.00013	-0.00012
	(A0 * !A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * B0 * !Y)	0.00052	0.00053	0.00053
	(A0 * !A2 * !B0 * Y)	-0.00025	-0.00023	-0.00019
	(A0 * !A2 * !B0 * Y)	-0.00006	-0.00006	-0.00005
	(A0 * !A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B0 * Y)	0.00053	0.00053	0.00053
	(!A0 * A2 * B0 * !Y)	-0.00026	-0.00023	-0.00019
	(!A0 * A2 * B0 * !Y)	-0.00006	-0.00005	-0.00005
	(!A0 * A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * B0 * !Y)	0.00053	0.00053	0.00053
	(!A0 * A2 * !B0 * Y)	-0.00026	-0.00023	-0.00020
	(!A0 * A2 * !B0 * Y)	-0.00006	-0.00005	-0.00005
	(!A0 * A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * !B0 * Y)	0.00052	0.00052	0.00053
	(!A0 * !A2 * !B0 * Y)	-0.00032	-0.00032	-0.00032
	(!A0 * !A2 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A2 * !B0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A2 * !B0 * Y)	0.00042	0.00043	0.00043

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X3H7H	(A0 * A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * !Y)	0.00015	0.00015	0.00016
	(A0 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A2 * B0 * !Y)	-0.00053	-0.00053	-0.00053
	(A0 * A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A2 * !B0 * Y)	0.00016	0.00016	0.00016
	(A0 * A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A2 * !B0 * Y)	-0.00053	-0.00053	-0.00053
	(A0 * !A2 * B0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A2 * B0 * !Y)	0.00013	0.00013	0.00013
	(A0 * !A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * B0 * !Y)	-0.00053	-0.00053	-0.00052
	(A0 * !A2 * !B0 * Y)	0.00025	0.00025	0.00025
	(A0 * !A2 * !B0 * Y)	0.00005	0.00006	0.00006
	(A0 * !A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B0 * Y)	-0.00053	-0.00052	-0.00051
	(!A0 * A2 * B0 * !Y)	0.00026	0.00026	0.00026
	(!A0 * A2 * B0 * !Y)	0.00005	0.00005	0.00006
	(!A0 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B0 * !Y)	-0.00053	-0.00052	-0.00052
	(!A0 * A2 * !B0 * Y)	0.00025	0.00026	0.00026
	(!A0 * A2 * !B0 * Y)	0.00005	0.00005	0.00006
	(!A0 * A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * !B0 * Y)	-0.00053	-0.00052	-0.00052
	(!A0 * !A2 * !B0 * Y)	0.00032	0.00032	0.00033
	(!A0 * !A2 * !B0 * Y)	0.00002	0.00003	0.00003
	(!A0 * !A2 * !B0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A2 * !B0 * Y)	-0.00043	-0.00040	-0.00035

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X3H7H	(A1 * B0 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * !Y)	-0.00009	-0.00009	-0.00009
	(A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !Y)	0.00083	0.00083	0.00084
	(A1 * !B0 * Y)	-0.00043	-0.00041	-0.00036
	(A1 * !B0 * Y)	-0.00006	-0.00006	-0.00006
	(A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * Y)	0.00054	0.00055	0.00055
	(A0 * !A1 * B0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !Y)	-0.00009	-0.00009	-0.00008
	(A0 * !A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B0 * !Y)	0.00082	0.00083	0.00083
	(A0 * !A1 * !B0 * Y)	-0.00042	-0.00038	-0.00034
	(A0 * !A1 * !B0 * Y)	-0.00007	-0.00006	-0.00006
	(A0 * !A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B0 * Y)	0.00054	0.00055	0.00055
	(!A0 * !A1 * !B0 * Y)	-0.00051	-0.00051	-0.00050
	(!A0 * !A1 * !B0 * Y)	-0.00003	-0.00002	-0.00002
	(!A0 * !A1 * !B0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !B0 * Y)	0.00045	0.00045	0.00045

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X3H7H	(A1 * B0 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * !Y)	0.00009	0.00009	0.00009
	(A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !Y)	-0.00083	-0.00083	-0.00083
	(A1 * !B0 * Y)	0.00043	0.00043	0.00043
	(A1 * !B0 * Y)	0.00006	0.00006	0.00006
	(A1 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * Y)	-0.00055	-0.00054	-0.00054
	(A0 * !A1 * B0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !Y)	0.00008	0.00009	0.00009
	(A0 * !A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B0 * !Y)	-0.00083	-0.00083	-0.00081
	(A0 * !A1 * !B0 * Y)	0.00042	0.00042	0.00042
	(A0 * !A1 * !B0 * Y)	0.00006	0.00006	0.00007
	(A0 * !A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B0 * Y)	-0.00055	-0.00054	-0.00054
	(!A0 * !A1 * !B0 * Y)	0.00051	0.00051	0.00051
	(!A0 * !A1 * !B0 * Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * !B0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !B0 * Y)	-0.00045	-0.00042	-0.00036

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X3H7H	(!A0 * !A1 * !A2 * Y)	-0.00059	-0.00059	-0.00058
	(!A0 * !A1 * !A2 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * !A2 * Y)	0.00006	0.00006	0.00007
	(!A0 * !A1 * !A2 * Y)	0.00014	0.00015	0.00015

Passive power(pJ) for B0 falling (conditional):

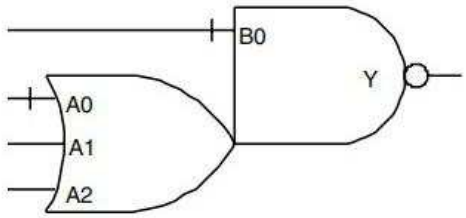
Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X3H7H	(!A0 * !A1 * !A2 * Y)	0.00059	0.00059	0.00060
	(!A0 * !A1 * !A2 * Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * !A2 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !A2 * Y)	-0.00015	-0.00015	-0.00014

OAI31X4H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI31 cell provides the logical inverted AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	A2	B0	Y
0	0	0	x	1
0	x	1	0	1
0	x	1	1	0
x	1	x	0	1
x	1	x	1	0
1	x	x	0	1
1	x	x	1	0

Footprint

Cell Name	Area
OAI31X4H7H	4.48000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	A2	B0	Y
OAI31X4H7H	0.00202	0.00224	0.00270	0.00232	0.03505

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI31X4H7H	0.00000	0.05001	0.09615

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI31X4H7H	A0->Y (FR)	0.07511	0.24968	0.73229
	A1->Y (FR)	0.07381	0.25158	0.75747
	A2->Y (FR)	0.06747	0.23882	0.73457
	B0->Y (FR)	0.01831	0.11250	0.44945

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI31X4H7H	A0->Y (RF)	0.03539	0.14950	0.49615
	A1->Y (RF)	0.03407	0.14605	0.49234
	A2->Y (RF)	0.03197	0.14136	0.48677
	B0->Y (RF)	0.02870	0.13581	0.48623

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI31X4H7H	A0	0.00392	0.00398	0.00404
	A0	-0.00054	-0.00053	-0.00053
	A0	0.00034	0.00034	0.00035
	A0	-0.00022	-0.00016	-0.00010
	A1	0.00346	0.00354	0.00361
	A1	-0.00038	-0.00038	-0.00037
	A1	0.00034	0.00034	0.00035
	A1	-0.00020	-0.00013	-0.00007
	A2	0.00296	0.00307	0.00319
	A2	-0.00021	-0.00020	-0.00018
	A2	0.00034	0.00034	0.00035
	A2	-0.00030	-0.00020	-0.00010
	B0	0.00300	0.00309	0.00320
	B0	-0.00021	-0.00020	-0.00020
	B0	0.00008	0.00008	0.00009
	B0	-0.00034	-0.00023	-0.00012

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI31X4H7H	A0	-0.00030	-0.00026	-0.00022
	A0	0.00053	0.00053	0.00054
	A0	-0.00035	-0.00034	-0.00034
	A0	0.00383	0.00388	0.00392
	A1	-0.00031	-0.00024	-0.00020
	A1	0.00037	0.00038	0.00038
	A1	-0.00035	-0.00034	-0.00034
	A1	0.00348	0.00354	0.00359
	A2	-0.00040	-0.00026	-0.00017
	A2	0.00020	0.00021	0.00022
	A2	-0.00035	-0.00034	-0.00034
	A2	0.00310	0.00322	0.00332
	B0	-0.00038	-0.00028	-0.00019
	B0	0.00053	0.00053	0.00054
	B0	-0.00008	-0.00008	-0.00006
	B0	0.00273	0.00283	0.00293

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X4H7H	(A1 * A2 * B0 * !Y)	-0.00032	-0.00030	-0.00025
	(A1 * A2 * B0 * !Y)	-0.00007	-0.00007	-0.00007
	(A1 * A2 * B0 * !Y)	0.00001	0.00001	0.00002
	(A1 * A2 * B0 * !Y)	0.00061	0.00062	0.00062
	(A1 * !B0 * Y)	-0.00034	-0.00031	-0.00026
	(A1 * !B0 * Y)	-0.00007	-0.00007	-0.00007
	(A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * Y)	0.00060	0.00060	0.00061
	(A1 * !A2 * B0 * !Y)	-0.00032	-0.00030	-0.00025
	(A1 * !A2 * B0 * !Y)	-0.00007	-0.00007	-0.00007
	(A1 * !A2 * B0 * !Y)	0.00001	0.00001	0.00002
	(A1 * !A2 * B0 * !Y)	0.00061	0.00062	0.00062
	(!A1 * A2 * B0 * !Y)	-0.00031	-0.00028	-0.00023
	(!A1 * A2 * B0 * !Y)	-0.00007	-0.00007	-0.00006
	(!A1 * A2 * B0 * !Y)	0.00001	0.00001	0.00002
	(!A1 * A2 * B0 * !Y)	0.00061	0.00062	0.00062
	(!A1 * A2 * !B0 * Y)	-0.00033	-0.00029	-0.00025
	(!A1 * A2 * !B0 * Y)	-0.00008	-0.00007	-0.00007
	(!A1 * A2 * !B0 * Y)	0.00001	0.00002	0.00002
	(!A1 * A2 * !B0 * Y)	0.00060	0.00060	0.00061
	(!A1 * !A2 * !B0 * Y)	-0.00042	-0.00042	-0.00041
	(!A1 * !A2 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !A2 * !B0 * Y)	0.00004	0.00005	0.00005
	(!A1 * !A2 * !B0 * Y)	0.00049	0.00050	0.00050

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X4H7H	(A1 * A2 * B0 * !Y)	0.00032	0.00032	0.00032
	(A1 * A2 * B0 * !Y)	0.00007	0.00007	0.00007
	(A1 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B0 * !Y)	-0.00062	-0.00061	-0.00061
	(A1 * !B0 * Y)	0.00033	0.00033	0.00034
	(A1 * !B0 * Y)	0.00007	0.00007	0.00007
	(A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * Y)	-0.00060	-0.00060	-0.00060
	(A1 * !A2 * B0 * !Y)	0.00032	0.00032	0.00032
	(A1 * !A2 * B0 * !Y)	0.00007	0.00007	0.00007
	(A1 * !A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * !Y)	-0.00062	-0.00061	-0.00061
	(!A1 * A2 * B0 * !Y)	0.00030	0.00031	0.00031
	(!A1 * A2 * B0 * !Y)	0.00006	0.00007	0.00007
	(!A1 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * B0 * !Y)	-0.00062	-0.00062	-0.00061
	(!A1 * A2 * !B0 * Y)	0.00032	0.00032	0.00033
	(!A1 * A2 * !B0 * Y)	0.00007	0.00007	0.00008
	(!A1 * A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * Y)	-0.00060	-0.00060	-0.00060
	(!A1 * !A2 * !B0 * Y)	0.00042	0.00042	0.00042
	(!A1 * !A2 * !B0 * Y)	0.00003	0.00003	0.00003
	(!A1 * !A2 * !B0 * Y)	-0.00005	-0.00005	-0.00004
	(!A1 * !A2 * !B0 * Y)	-0.00050	-0.00046	-0.00040

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X4H7H	(A0 * A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B0 * !Y)	-0.00020	-0.00020	-0.00019
	(A0 * A2 * B0 * !Y)	0.00001	0.00002	0.00002
	(A0 * A2 * B0 * !Y)	0.00066	0.00066	0.00067
	(A0 * A2 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A2 * !B0 * Y)	-0.00020	-0.00020	-0.00020
	(A0 * A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(A0 * A2 * !B0 * Y)	0.00064	0.00064	0.00064
	(A0 * !A2 * B0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !Y)	-0.00016	-0.00016	-0.00016
	(A0 * !A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * B0 * !Y)	0.00065	0.00066	0.00066
	(A0 * !A2 * !B0 * Y)	-0.00034	-0.00031	-0.00026
	(A0 * !A2 * !B0 * Y)	-0.00008	-0.00007	-0.00007
	(A0 * !A2 * !B0 * Y)	0.00001	0.00002	0.00002
	(A0 * !A2 * !B0 * Y)	0.00063	0.00064	0.00064
	(!A0 * A2 * B0 * !Y)	-0.00033	-0.00030	-0.00024
	(!A0 * A2 * B0 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0 * A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * B0 * !Y)	0.00065	0.00066	0.00066
	(!A0 * A2 * !B0 * Y)	-0.00034	-0.00031	-0.00026
	(!A0 * A2 * !B0 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * A2 * !B0 * Y)	0.00001	0.00002	0.00002
	(!A0 * A2 * !B0 * Y)	0.00063	0.00064	0.00064
	(!A0 * !A2 * !B0 * Y)	-0.00043	-0.00043	-0.00042
	(!A0 * !A2 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A2 * !B0 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * !B0 * Y)	0.00049	0.00049	0.00050

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X4H7H	(A0 * A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * !Y)	0.00019	0.00020	0.00020
	(A0 * A2 * B0 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * A2 * B0 * !Y)	-0.00066	-0.00066	-0.00066
	(A0 * A2 * !B0 * Y)	0.00002	0.00002	0.00002
	(A0 * A2 * !B0 * Y)	0.00020	0.00020	0.00020
	(A0 * A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A2 * !B0 * Y)	-0.00064	-0.00064	-0.00064
	(A0 * !A2 * B0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !Y)	0.00017	0.00017	0.00017
	(A0 * !A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * B0 * !Y)	-0.00066	-0.00066	-0.00065
	(A0 * !A2 * !B0 * Y)	0.00034	0.00034	0.00034
	(A0 * !A2 * !B0 * Y)	0.00007	0.00007	0.00008
	(A0 * !A2 * !B0 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * !A2 * !B0 * Y)	-0.00064	-0.00064	-0.00063
	(!A0 * A2 * B0 * !Y)	0.00033	0.00033	0.00033
	(!A0 * A2 * B0 * !Y)	0.00007	0.00007	0.00007
	(!A0 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B0 * !Y)	-0.00065	-0.00065	-0.00064
	(!A0 * A2 * !B0 * Y)	0.00034	0.00034	0.00034
	(!A0 * A2 * !B0 * Y)	0.00007	0.00007	0.00007
	(!A0 * A2 * !B0 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * A2 * !B0 * Y)	-0.00064	-0.00064	-0.00063
	(!A0 * !A2 * !B0 * Y)	0.00043	0.00043	0.00043
	(!A0 * !A2 * !B0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A2 * !B0 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * !B0 * Y)	-0.00050	-0.00045	-0.00038

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X4H7H	(A1 * B0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !Y)	-0.00011	-0.00011	-0.00011
	(A1 * B0 * !Y)	0.00001	0.00002	0.00002
	(A1 * B0 * !Y)	0.00094	0.00095	0.00095
	(A1 * !B0 * Y)	-0.00054	-0.00050	-0.00044
	(A1 * !B0 * Y)	-0.00008	-0.00007	-0.00007
	(A1 * !B0 * Y)	0.00001	0.00002	0.00002
	(A1 * !B0 * Y)	0.00059	0.00060	0.00060
	(A0 * !A1 * B0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !Y)	-0.00011	-0.00011	-0.00010
	(A0 * !A1 * B0 * !Y)	0.00001	0.00002	0.00002
	(A0 * !A1 * B0 * !Y)	0.00093	0.00094	0.00095
	(A0 * !A1 * !B0 * Y)	-0.00052	-0.00047	-0.00041
	(A0 * !A1 * !B0 * Y)	-0.00008	-0.00007	-0.00006
	(A0 * !A1 * !B0 * Y)	0.00001	0.00002	0.00002
	(A0 * !A1 * !B0 * Y)	0.00059	0.00060	0.00060
	(!A0 * !A1 * !B0 * Y)	-0.00063	-0.00063	-0.00063
	(!A0 * !A1 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !B0 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !B0 * Y)	0.00048	0.00048	0.00048

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X4H7H	(A1 * B0 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * !Y)	0.00012	0.00012	0.00012
	(A1 * B0 * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * B0 * !Y)	-0.00095	-0.00094	-0.00094
	(A1 * !B0 * Y)	0.00053	0.00053	0.00054
	(A1 * !B0 * Y)	0.00007	0.00008	0.00008
	(A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * Y)	-0.00060	-0.00059	-0.00059
	(A0 * !A1 * B0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !Y)	0.00011	0.00012	0.00012
	(A0 * !A1 * B0 * !Y)	-0.00002	-0.00001	-0.00001
	(A0 * !A1 * B0 * !Y)	-0.00095	-0.00094	-0.00093
	(A0 * !A1 * !B0 * Y)	0.00052	0.00052	0.00052
	(A0 * !A1 * !B0 * Y)	0.00006	0.00007	0.00008
	(A0 * !A1 * !B0 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * !A1 * !B0 * Y)	-0.00060	-0.00059	-0.00059
	(!A0 * !A1 * !B0 * Y)	0.00063	0.00063	0.00063
	(!A0 * !A1 * !B0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !B0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !B0 * Y)	-0.00048	-0.00044	-0.00038

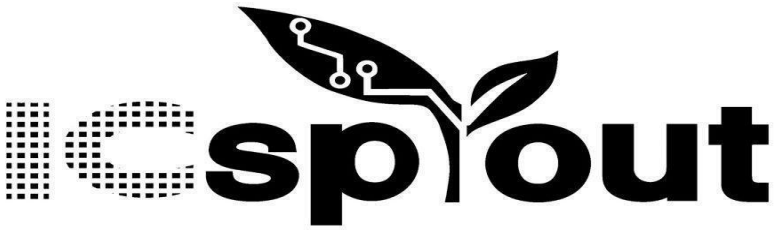
Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X4H7H	(!A0 * !A1 * !A2 * Y)	-0.00072	-0.00071	-0.00070
	(!A0 * !A1 * !A2 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * !A2 * Y)	0.00012	0.00013	0.00013

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X4H7H	(!A0 * !A1 * !A2 * Y)	0.00071	0.00072	0.00072
	(!A0 * !A1 * !A2 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * !A2 * Y)	-0.00013	-0.00013	-0.00012

OAI32X0P5H7H



tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI32 cell provides the logical inverted AND of two OR groups. The output (Y) is represented by the logic equation:

Truth Table

INPUT					OUTPUT
A0	A1	A2	B0	B1	YN
0	0	0	x	x	1
0	x	1	0	0	1
0	x	1	x	1	0
0	x	1	1	x	0
x	1	x	0	0	1
x	1	x	x	1	0
x	1	x	1	x	0
1	x	x	0	0	1
1	x	x	x	1	0
1	x	x	1	x	0

Footprint

Cell Name	Area
OAI32X0P5H7H	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	A1	A2	B0	B1	YN
OAI32X0P5H7H	0.00074	0.00076	0.00086	0.00080	0.00092	0.00924

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI32X0P5H7H	0.00000	0.01186	0.01646

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI32X0P5H7H	A0->YN (FR)	0.12083	0.28271	0.72494
	A1->YN (FR)	0.11796	0.28442	0.74780
	A2->YN (FR)	0.11200	0.27271	0.72679
	B0->YN (FR)	0.05375	0.18199	0.56915
	B1->YN (FR)	0.05208	0.17615	0.56529

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI32X0P5H7H	A0->YN (RF)	0.05358	0.16155	0.47352
	A1->YN (RF)	0.05138	0.15812	0.46988
	A2->YN (RF)	0.04883	0.15439	0.46570
	B0->YN (RF)	0.04236	0.14465	0.46676
	B1->YN (RF)	0.04061	0.14142	0.46393

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI32X0P5H7H	A0	0.00155	0.00157	0.00159
	A0	-0.00014	-0.00014	-0.00013
	A0	0.00014	0.00014	0.00014
	A0	-0.00010	-0.00008	-0.00006
	A1	0.00142	0.00144	0.00146
	A1	-0.00010	-0.00010	-0.00009
	A1	0.00014	0.00014	0.00014
	A1	-0.00004	-0.00002	-0.00000
	A2	0.00127	0.00131	0.00134
	A2	-0.00005	-0.00005	-0.00005
	A2	0.00014	0.00014	0.00014
	A2	-0.00005	-0.00003	0.00000
	B0	0.00114	0.00117	0.00120
	B0	-0.00010	-0.00010	-0.00009
	B0	0.00004	0.00005	0.00005
	B0	-0.00015	-0.00012	-0.00009
	B1	0.00102	0.00106	0.00110
	B1	-0.00005	-0.00005	-0.00005
	B1	0.00004	0.00005	0.00005
	B1	-0.00010	-0.00006	-0.00002

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI32X0P5H7H	A0	-0.00007	-0.00006	-0.00006
	A0	0.00018	0.00018	0.00018
	A0	-0.00013	-0.00013	-0.00013
	A0	0.00158	0.00159	0.00161
	A1	-0.00008	-0.00006	-0.00005
	A1	0.00013	0.00014	0.00014
	A1	-0.00013	-0.00013	-0.00013
	A1	0.00142	0.00144	0.00145
	A2	-0.00008	-0.00006	-0.00004
	A2	0.00009	0.00010	0.00010
	A2	-0.00013	-0.00013	-0.00013
	A2	0.00132	0.00135	0.00137
	B0	-0.00010	-0.00008	-0.00006
	B0	0.00018	0.00018	0.00018
	B0	-0.00005	-0.00005	-0.00004
	B0	0.00110	0.00113	0.00115
	B1	-0.00011	-0.00007	-0.00004
	B1	0.00013	0.00014	0.00014
	B1	-0.00005	-0.00005	-0.00004
	B1	0.00096	0.00100	0.00103

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI32X0P5H7H	**(A1 * A2 * B1 * !YN)**	-0.00009	-0.00008	-0.00007
	(A1 * A2 * B1 * !YN)	-0.00002	-0.00002	-0.00002
	(A1 * A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * A2 * B1 * !YN)	0.00029	0.00029	0.00029
	(A1 * A2 * B0 * !B1 * !YN)	-0.00009	-0.00008	-0.00007
	(A1 * A2 * B0 * !B1 * !YN)	-0.00002	-0.00002	-0.00002
	(A1 * A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * A2 * B0 * !B1 * !YN)	0.00029	0.00029	0.00029
	(A1 * !B0 * !B1 * YN)	-0.00009	-0.00008	-0.00007
	(A1 * !B0 * !B1 * YN)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * YN)	0.00029	0.00029	0.00029
	(A1 * !A2 * B1 * !YN)	-0.00009	-0.00008	-0.00007
	(A1 * !A2 * B1 * !YN)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B1 * !YN)	0.00029	0.00029	0.00029
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00009	-0.00008	-0.00007
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !B1 * !YN)	0.00029	0.00029	0.00029
	(!A1 * A2 * B1 * !YN)	-0.00008	-0.00007	-0.00006
	(!A1 * A2 * B1 * !YN)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(!A1 * A2 * B1 * !YN)	0.00029	0.00029	0.00029
	(!A1 * A2 * B0 * !B1 * !YN)	-0.00008	-0.00007	-0.00006
	(!A1 * A2 * B0 * !B1 * !YN)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(!A1 * A2 * B0 * !B1 * !YN)	0.00029	0.00029	0.00029
	(!A1 * A2 * !B0 * !B1 * YN)	-0.00008	-0.00007	-0.00006
	(!A1 * A2 * !B0 * !B1 * YN)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B0 * !B1 * YN)	0.00029	0.00029	0.00029
	(!A1 * !A2 * !B0 * !B1 * YN)	-0.00011	-0.00011	-0.00011
	(!A1 * !A2 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00000
	(!A1 * !A2 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B0 * !B1 * YN)	0.00025	0.00025	0.00025

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI32X0P5H7H	**(A1 * A2 * B1 * !YN)**	0.00009	0.00009	0.00009
	(A1 * A2 * B1 * !YN)	0.00002	0.00002	0.00002
	(A1 * A2 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * A2 * B1 * !YN)	-0.00029	-0.00029	-0.00029
	(A1 * A2 * B0 * !B1 * !YN)	0.00009	0.00009	0.00009
	(A1 * A2 * B0 * !B1 * !YN)	0.00002	0.00002	0.00002
	(A1 * A2 * B0 * !B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * A2 * B0 * !B1 * !YN)	-0.00029	-0.00029	-0.00029
	(A1 * !B0 * !B1 * YN)	0.00009	0.00009	0.00009
	(A1 * !B0 * !B1 * YN)	0.00002	0.00002	0.00002
	(A1 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * YN)	-0.00029	-0.00029	-0.00029
	(A1 * !A2 * B1 * !YN)	0.00009	0.00009	0.00009
	(A1 * !A2 * B1 * !YN)	0.00002	0.00002	0.00002
	(A1 * !A2 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B1 * !YN)	-0.00029	-0.00029	-0.00029
	(A1 * !A2 * B0 * !B1 * !YN)	0.00009	0.00009	0.00009
	(A1 * !A2 * B0 * !B1 * !YN)	0.00002	0.00002	0.00002
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00000	-0.00000	0.00001
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00029	-0.00029	-0.00029
	(!A1 * A2 * B1 * !YN)	0.00008	0.00008	0.00009
	(!A1 * A2 * B1 * !YN)	0.00002	0.00002	0.00002
	(!A1 * A2 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * B1 * !YN)	-0.00029	-0.00029	-0.00029
	(!A1 * A2 * B0 * !B1 * !YN)	0.00008	0.00008	0.00008
	(!A1 * A2 * B0 * !B1 * !YN)	0.00002	0.00002	0.00002
	(!A1 * A2 * B0 * !B1 * !YN)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * B0 * !B1 * !YN)	-0.00029	-0.00029	-0.00029
	(!A1 * A2 * !B0 * !B1 * YN)	0.00008	0.00009	0.00009
	(!A1 * A2 * !B0 * !B1 * YN)	0.00002	0.00002	0.00002
	(!A1 * A2 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B0 * !B1 * YN)	-0.00029	-0.00029	-0.00029
	(!A1 * !A2 * !B0 * !B1 * YN)	0.00011	0.00011	0.00011
	(!A1 * !A2 * !B0 * !B1 * YN)	0.00000	0.00001	0.00001
	(!A1 * !A2 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B0 * !B1 * YN)	-0.00025	-0.00024	-0.00022

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI32X0P5H7H	**(A0 * A2 * B1 * !YN)**	-0.00000	-0.00000	0.00000
	(A0 * A2 * B1 * !YN)	-0.00006	-0.00006	-0.00006
	(A0 * A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * A2 * B1 * !YN)	0.00024	0.00024	0.00024
	(A0 * A2 * B0 * !B1 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * A2 * B0 * !B1 * !YN)	-0.00006	-0.00006	-0.00006
	(A0 * A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * !B1 * !YN)	0.00024	0.00024	0.00024
	(A0 * A2 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * !B0 * !B1 * YN)	-0.00006	-0.00006	-0.00006
	(A0 * A2 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(A0 * A2 * !B0 * !B1 * YN)	0.00024	0.00024	0.00024
	(A0 * !A2 * B1 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A2 * B1 * !YN)	-0.00005	-0.00005	-0.00005
	(A0 * !A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B1 * !YN)	0.00024	0.00024	0.00024
	(A0 * !A2 * B0 * !B1 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !B1 * !YN)	-0.00005	-0.00005	-0.00005
	(A0 * !A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !B1 * !YN)	0.00024	0.00024	0.00024
	(A0 * !A2 * !B0 * !B1 * YN)	-0.00009	-0.00008	-0.00007
	(A0 * !A2 * !B0 * !B1 * YN)	-0.00002	-0.00002	-0.00002
	(A0 * !A2 * !B0 * !B1 * YN)	0.00000	0.00000	0.00001
	(A0 * !A2 * !B0 * !B1 * YN)	0.00024	0.00024	0.00024
	(!A0 * A2 * B1 * !YN)	-0.00010	-0.00009	-0.00007
	(!A0 * A2 * B1 * !YN)	-0.00002	-0.00002	-0.00002
	(!A0 * A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(!A0 * A2 * B1 * !YN)	0.00024	0.00024	0.00025
	(!A0 * A2 * B0 * !B1 * !YN)	-0.00010	-0.00009	-0.00007
	(!A0 * A2 * B0 * !B1 * !YN)	-0.00002	-0.00002	-0.00002
	(!A0 * A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(!A0 * A2 * B0 * !B1 * !YN)	0.00024	0.00024	0.00025
	(!A0 * A2 * !B0 * !B1 * YN)	-0.00009	-0.00009	-0.00007
	(!A0 * A2 * !B0 * !B1 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * A2 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(!A0 * A2 * !B0 * !B1 * YN)	0.00024	0.00024	0.00024
	(!A0 * !A2 * !B0 * !B1 * YN)	-0.00012	-0.00012	-0.00012
	(!A0 * !A2 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A2 * !B0 * !B1 * YN)	0.00019	0.00020	0.00020

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI32X0P5H7H	**(A0 * A2 * B1 * !YN)**	0.00000	0.00000	0.00000
	(A0 * A2 * B1 * !YN)	0.00006	0.00006	0.00006
	(A0 * A2 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B1 * !YN)	-0.00024	-0.00024	-0.00023
	(A0 * A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * !B1 * !YN)	0.00006	0.00006	0.00006
	(A0 * A2 * B0 * !B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B0 * !B1 * !YN)	-0.00024	-0.00024	-0.00024
	(A0 * A2 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(A0 * A2 * !B0 * !B1 * YN)	0.00006	0.00006	0.00006
	(A0 * A2 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * !B0 * !B1 * YN)	-0.00024	-0.00024	-0.00022
	(A0 * !A2 * B1 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A2 * B1 * !YN)	0.00005	0.00005	0.00005
	(A0 * !A2 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * B1 * !YN)	-0.00024	-0.00024	-0.00024
	(A0 * !A2 * B0 * !B1 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !B1 * !YN)	0.00005	0.00005	0.00005
	(A0 * !A2 * B0 * !B1 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * !A2 * B0 * !B1 * !YN)	-0.00024	-0.00024	-0.00024
	(A0 * !A2 * !B0 * !B1 * YN)	0.00009	0.00009	0.00009
	(A0 * !A2 * !B0 * !B1 * YN)	0.00002	0.00002	0.00002
	(A0 * !A2 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * !B0 * !B1 * YN)	-0.00024	-0.00024	-0.00024
	(!A0 * A2 * B1 * !YN)	0.00009	0.00010	0.00010
	(!A0 * A2 * B1 * !YN)	0.00002	0.00002	0.00002
	(!A0 * A2 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * B1 * !YN)	-0.00024	-0.00024	-0.00024
	(!A0 * A2 * B0 * !B1 * !YN)	0.00009	0.00010	0.00010
	(!A0 * A2 * B0 * !B1 * !YN)	0.00002	0.00002	0.00002
	(!A0 * A2 * B0 * !B1 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * B0 * !B1 * !YN)	-0.00024	-0.00024	-0.00023
	(!A0 * A2 * !B0 * !B1 * YN)	0.00009	0.00009	0.00009
	(!A0 * A2 * !B0 * !B1 * YN)	0.00002	0.00002	0.00002
	(!A0 * A2 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * !B0 * !B1 * YN)	-0.00024	-0.00024	-0.00024
	(!A0 * !A2 * !B0 * !B1 * YN)	0.00012	0.00012	0.00012
	(!A0 * !A2 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A2 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * !B0 * !B1 * YN)	-0.00020	-0.00018	-0.00016

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X0P5H7H	(A1 * B1 * !YN)	-0.00000	0.00000	0.00000
	(A1 * B1 * !YN)	-0.00003	-0.00003	-0.00003
	(A1 * B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * B1 * !YN)	0.00030	0.00030	0.00031
	(A1 * B0 * !B1 * !YN)	-0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * !YN)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * !YN)	0.00030	0.00030	0.00031
	(A1 * !B0 * !B1 * YN)	-0.00011	-0.00010	-0.00009
	(A1 * !B0 * !B1 * YN)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * YN)	0.00024	0.00024	0.00025
	(A0 * !A1 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * !YN)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * !YN)	0.00030	0.00030	0.00031
	(A0 * !A1 * B0 * !B1 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * !YN)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * !YN)	0.00030	0.00030	0.00031
	(A0 * !A1 * !B0 * !B1 * YN)	-0.00011	-0.00009	-0.00008
	(A0 * !A1 * !B0 * !B1 * YN)	-0.00003	-0.00002	-0.00002
	(A0 * !A1 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B0 * !B1 * YN)	0.00024	0.00024	0.00025
	(!A0 * !A1 * !B0 * !B1 * YN)	-0.00014	-0.00014	-0.00013
	(!A0 * !A1 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * !B1 * YN)	0.00001	0.00002	0.00002
	(!A0 * !A1 * !B0 * !B1 * YN)	0.00020	0.00020	0.00020

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X0P5H7H	(A1 * B1 * !YN)	-0.00000	-0.00000	0.00000
	(A1 * B1 * !YN)	0.00003	0.00003	0.00003
	(A1 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * !YN)	-0.00031	-0.00030	-0.00030
	(A1 * B0 * !B1 * !YN)	-0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * !YN)	0.00003	0.00003	0.00003
	(A1 * B0 * !B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * !YN)	-0.00031	-0.00030	-0.00030
	(A1 * !B0 * !B1 * YN)	0.00011	0.00011	0.00011
	(A1 * !B0 * !B1 * YN)	0.00002	0.00002	0.00002
	(A1 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * YN)	-0.00025	-0.00024	-0.00024
	(A0 * !A1 * B1 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * !YN)	0.00003	0.00003	0.00003
	(A0 * !A1 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * !YN)	-0.00031	-0.00030	-0.00030
	(A0 * !A1 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * !YN)	0.00003	0.00003	0.00003
	(A0 * !A1 * B0 * !B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * !B1 * !YN)	-0.00031	-0.00030	-0.00030
	(A0 * !A1 * !B0 * !B1 * YN)	0.00010	0.00011	0.00011
	(A0 * !A1 * !B0 * !B1 * YN)	0.00002	0.00002	0.00003
	(A0 * !A1 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !B0 * !B1 * YN)	-0.00025	-0.00024	-0.00024
	(!A0 * !A1 * !B0 * !B1 * YN)	0.00013	0.00014	0.00014
	(!A0 * !A1 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * !B1 * YN)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * !B0 * !B1 * YN)	-0.00020	-0.00018	-0.00016

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X0P5H7H	(A2 * B1 * !YN)	-0.00009	-0.00008	-0.00007
	(A2 * B1 * !YN)	-0.00002	-0.00002	-0.00002
	(A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A2 * B1 * !YN)	0.00031	0.00032	0.00032
	(A1 * !A2 * B1 * !YN)	-0.00009	-0.00008	-0.00007
	(A1 * !A2 * B1 * !YN)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B1 * !YN)	0.00031	0.00032	0.00032
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00009	-0.00008	-0.00007
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * !A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B1 * !YN)	0.00031	0.00032	0.00032
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00019	-0.00018	-0.00017
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * B1 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * B1 * YN)	0.00010	0.00011	0.00011
	(!A0 * !A1 * !A2 * !B1 * YN)	-0.00021	-0.00021	-0.00020
	(!A0 * !A1 * !A2 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !A2 * !B1 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * !B1 * YN)	0.00010	0.00011	0.00011

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X0P5H7H	(A2 * B1 * !YN)	0.00009	0.00009	0.00009
	(A2 * B1 * !YN)	0.00002	0.00002	0.00002
	(A2 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A2 * B1 * !YN)	-0.00032	-0.00032	-0.00031
	(A1 * !A2 * B1 * !YN)	0.00009	0.00009	0.00009
	(A1 * !A2 * B1 * !YN)	0.00002	0.00002	0.00002
	(A1 * !A2 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B1 * !YN)	-0.00031	-0.00031	-0.00031
	(A0 * !A1 * !A2 * B1 * !YN)	0.00009	0.00009	0.00009
	(A0 * !A1 * !A2 * B1 * !YN)	0.00002	0.00002	0.00002
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00031	-0.00031	-0.00031
	(!A0 * !A1 * !A2 * B1 * YN)	0.00019	0.00019	0.00019
	(!A0 * !A1 * !A2 * B1 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00011	-0.00010	-0.00010
	(!A0 * !A1 * !A2 * !B1 * YN)	0.00021	0.00021	0.00021
	(!A0 * !A1 * !A2 * !B1 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !A2 * !B1 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * !B1 * YN)	-0.00010	-0.00010	-0.00010

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X0P5H7H	(A2 * B0 * !YN)	-0.00000	0.00000	0.00000
	(A2 * B0 * !YN)	-0.00003	-0.00003	-0.00003
	(A2 * B0 * !YN)	0.00000	0.00000	0.00000
	(A2 * B0 * !YN)	0.00033	0.00033	0.00033
	(A1 * !A2 * B0 * !YN)	-0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !YN)	-0.00003	-0.00003	-0.00003
	(A1 * !A2 * B0 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !YN)	0.00033	0.00033	0.00033
	(A0 * !A1 * !A2 * B0 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * !YN)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * !A2 * B0 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * !YN)	0.00033	0.00033	0.00033
	(!A0 * !A1 * !A2 * B0 * YN)	-0.00024	-0.00022	-0.00021
	(!A0 * !A1 * !A2 * B0 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * B0 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * B0 * YN)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !A2 * !B0 * YN)	-0.00026	-0.00025	-0.00025
	(!A0 * !A1 * !A2 * !B0 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !A2 * !B0 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * !B0 * YN)	0.00004	0.00004	0.00004

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X0P5H7H	(A2 * B0 * !YN)	-0.00000	-0.00000	0.00000
	(A2 * B0 * !YN)	0.00003	0.00003	0.00003
	(A2 * B0 * !YN)	-0.00000	-0.00000	-0.00000
	(A2 * B0 * !YN)	-0.00033	-0.00033	-0.00033
	(A1 * !A2 * B0 * !YN)	-0.00000	-0.00000	0.00000
	(A1 * !A2 * B0 * !YN)	0.00003	0.00003	0.00003
	(A1 * !A2 * B0 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * !YN)	-0.00033	-0.00033	-0.00033
	(A0 * !A1 * !A2 * B0 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * !YN)	0.00003	0.00003	0.00003
	(A0 * !A1 * !A2 * B0 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !A2 * B0 * !YN)	-0.00033	-0.00033	-0.00033
	(!A0 * !A1 * !A2 * B0 * YN)	0.00023	0.00023	0.00024
	(!A0 * !A1 * !A2 * B0 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * B0 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * B0 * YN)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !A2 * !B0 * YN)	0.00025	0.00026	0.00026
	(!A0 * !A1 * !A2 * !B0 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !A2 * !B0 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * !B0 * YN)	-0.00004	-0.00004	-0.00004

OAI32X0P7H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI32 cell provides the logical inverted AND of two OR groups. The output (Y) is represented by the logic equation:

Truth Table

INPUT					OUTPUT
A0	A1	A2	B0	B1	YN
0	0	0	x	x	1
0	x	1	0	0	1
0	x	1	x	1	0
0	x	1	1	x	0
x	1	x	0	0	1
x	1	x	x	1	0
x	1	x	1	x	0
1	x	x	0	0	1
1	x	x	x	1	0
1	x	x	1	x	0

Footprint

Cell Name	Area
OAI32X0P7H7H	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	A1	A2	B0	B1	YN
OAI32X0P7H7H	0.00078	0.00084	0.00092	0.00085	0.00096	0.01059

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI32X0P7H7H	0.00000	0.01344	0.01570

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI32X0P7H7H	A0->YN (FR)	0.11284	0.27668	0.72448
	A1->YN (FR)	0.11058	0.27878	0.74812
	A2->YN (FR)	0.10354	0.26606	0.72576
	B0->YN (FR)	0.05043	0.17984	0.57209
	B1->YN (FR)	0.04839	0.17343	0.56757

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI32X0P7H7H	A0->YN (RF)	0.05154	0.16182	0.48255
	A1->YN (RF)	0.04962	0.15853	0.47859
	A2->YN (RF)	0.04662	0.15429	0.47411
	B0->YN (RF)	0.04069	0.14444	0.47205
	B1->YN (RF)	0.03861	0.14085	0.46845

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI32X0P7H7H	A0	0.00169	0.00171	0.00174
	A0	-0.00016	-0.00016	-0.00015
	A0	0.00016	0.00016	0.00016
	A0	-0.00011	-0.00008	-0.00006
	A1	0.00154	0.00157	0.00160
	A1	-0.00011	-0.00011	-0.00011
	A1	0.00016	0.00016	0.00016
	A1	-0.00007	-0.00004	-0.00002
	A2	0.00138	0.00142	0.00145
	A2	-0.00006	-0.00006	-0.00006
	A2	0.00016	0.00016	0.00016
	A2	-0.00006	-0.00003	-0.00001
	B0	0.00125	0.00129	0.00132
	B0	-0.00011	-0.00011	-0.00011
	B0	0.00005	0.00005	0.00006
	B0	-0.00016	-0.00012	-0.00009
	B1	0.00112	0.00115	0.00120
	B1	-0.00006	-0.00006	-0.00005
	B1	0.00005	0.00005	0.00006
	B1	-0.00011	-0.00007	-0.00003

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI32X0P7H7H	A0	-0.00009	-0.00007	-0.00006
	A0	0.00021	0.00021	0.00021
	A0	-0.00015	-0.00015	-0.00015
	A0	0.00172	0.00173	0.00175
	A1	-0.00009	-0.00007	-0.00006
	A1	0.00016	0.00016	0.00018
	A1	-0.00015	-0.00015	-0.00015
	A1	0.00157	0.00159	0.00161
	A2	-0.00010	-0.00007	-0.00005
	A2	0.00011	0.00011	0.00011
	A2	-0.00015	-0.00015	-0.00015
	A2	0.00143	0.00146	0.00148
	B0	-0.00011	-0.00009	-0.00007
	B0	0.00021	0.00021	0.00021
	B0	-0.00005	-0.00005	-0.00005
	B0	0.00120	0.00123	0.00126
	B1	-0.00012	-0.00008	-0.00004
	B1	0.00015	0.00016	0.00016
	B1	-0.00005	-0.00005	-0.00004
	B1	0.00105	0.00108	0.00112

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI32X0P7H7H	**(A1 * A2 * B1 * !YN)**	-0.00010	-0.00009	-0.00008
	(A1 * A2 * B1 * !YN)	-0.00002	-0.00002	-0.00002
	(A1 * A2 * B1 * !YN)	0.00000	0.00000	0.00001
	(A1 * A2 * B1 * !YN)	0.00030	0.00030	0.00030
	(A1 * A2 * B0 * !B1 * !YN)	-0.00010	-0.00009	-0.00008
	(A1 * A2 * B0 * !B1 * !YN)	-0.00002	-0.00002	-0.00002
	(A1 * A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * A2 * B0 * !B1 * !YN)	0.00030	0.00030	0.00030
	(A1 * !B0 * !B1 * YN)	-0.00010	-0.00009	-0.00008
	(A1 * !B0 * !B1 * YN)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * YN)	0.00030	0.00030	0.00030
	(A1 * !A2 * B1 * !YN)	-0.00010	-0.00009	-0.00008
	(A1 * !A2 * B1 * !YN)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * B1 * !YN)	0.00000	0.00001	0.00001
	(A1 * !A2 * B1 * !YN)	0.00030	0.00030	0.00030
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00010	-0.00009	-0.00008
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00001
	(A1 * !A2 * B0 * !B1 * !YN)	0.00030	0.00030	0.00030
	(!A1 * A2 * B1 * !YN)	-0.00010	-0.00009	-0.00007
	(!A1 * A2 * B1 * !YN)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(!A1 * A2 * B1 * !YN)	0.00030	0.00030	0.00030
	(!A1 * A2 * B0 * !B1 * !YN)	-0.00010	-0.00009	-0.00007
	(!A1 * A2 * B0 * !B1 * !YN)	-0.00003	-0.00002	-0.00002
	(!A1 * A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(!A1 * A2 * B0 * !B1 * !YN)	0.00030	0.00030	0.00030
	(!A1 * A2 * !B0 * !B1 * YN)	-0.00010	-0.00009	-0.00007
	(!A1 * A2 * !B0 * !B1 * YN)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B0 * !B1 * YN)	0.00030	0.00030	0.00030
	(!A1 * !A2 * !B0 * !B1 * YN)	-0.00012	-0.00012	-0.00012
	(!A1 * !A2 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00000
	(!A1 * !A2 * !B0 * !B1 * YN)	0.00001	0.00002	0.00001
	(!A1 * !A2 * !B0 * !B1 * YN)	0.00025	0.00026	0.00026

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI32X0P7H7H	**(A1 * A2 * B1 * !YN)**	0.00010	0.00010	0.00010
	(A1 * A2 * B1 * !YN)	0.00002	0.00002	0.00002
	(A1 * A2 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * A2 * B1 * !YN)	-0.00030	-0.00030	-0.00030
	(A1 * A2 * B0 * !B1 * !YN)	0.00010	0.00010	0.00010
	(A1 * A2 * B0 * !B1 * !YN)	0.00002	0.00002	0.00002
	(A1 * A2 * B0 * !B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * A2 * B0 * !B1 * !YN)	-0.00030	-0.00030	-0.00030
	(A1 * !B0 * !B1 * YN)	0.00010	0.00010	0.00010
	(A1 * !B0 * !B1 * YN)	0.00002	0.00002	0.00002
	(A1 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * YN)	-0.00030	-0.00030	-0.00030
	(A1 * !A2 * B1 * !YN)	0.00010	0.00010	0.00010
	(A1 * !A2 * B1 * !YN)	0.00002	0.00002	0.00002
	(A1 * !A2 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B1 * !YN)	-0.00030	-0.00030	-0.00030
	(A1 * !A2 * B0 * !B1 * !YN)	0.00010	0.00010	0.00010
	(A1 * !A2 * B0 * !B1 * !YN)	0.00002	0.00002	0.00002
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00030	-0.00030	-0.00030
	(!A1 * A2 * B1 * !YN)	0.00009	0.00010	0.00010
	(!A1 * A2 * B1 * !YN)	0.00002	0.00002	0.00002
	(!A1 * A2 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * B1 * !YN)	-0.00030	-0.00030	-0.00030
	(!A1 * A2 * B0 * !B1 * !YN)	0.00009	0.00009	0.00010
	(!A1 * A2 * B0 * !B1 * !YN)	0.00002	0.00002	0.00003
	(!A1 * A2 * B0 * !B1 * !YN)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * B0 * !B1 * !YN)	-0.00030	-0.00030	-0.00029
	(!A1 * A2 * !B0 * !B1 * YN)	0.00009	0.00010	0.00010
	(!A1 * A2 * !B0 * !B1 * YN)	0.00002	0.00002	0.00002
	(!A1 * A2 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B0 * !B1 * YN)	-0.00030	-0.00030	-0.00030
	(!A1 * !A2 * !B0 * !B1 * YN)	0.00012	0.00013	0.00013
	(!A1 * !A2 * !B0 * !B1 * YN)	0.00000	0.00001	0.00001
	(!A1 * !A2 * !B0 * !B1 * YN)	-0.00001	-0.00002	-0.00001
	(!A1 * !A2 * !B0 * !B1 * YN)	-0.00026	-0.00024	-0.00022

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI32X0P7H7H	**(A0 * A2 * B1 * !YN)**	-0.00000	-0.00000	0.00000
	(A0 * A2 * B1 * !YN)	-0.00006	-0.00006	-0.00006
	(A0 * A2 * B1 * !YN)	0.00000	0.00000	0.00001
	(A0 * A2 * B1 * !YN)	0.00027	0.00027	0.00027
	(A0 * A2 * B0 * !B1 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * A2 * B0 * !B1 * !YN)	-0.00006	-0.00006	-0.00006
	(A0 * A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * !B1 * !YN)	0.00027	0.00027	0.00027
	(A0 * A2 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * A2 * !B0 * !B1 * YN)	-0.00006	-0.00006	-0.00006
	(A0 * A2 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(A0 * A2 * !B0 * !B1 * YN)	0.00026	0.00026	0.00027
	(A0 * !A2 * B1 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A2 * B1 * !YN)	-0.00005	-0.00005	-0.00005
	(A0 * !A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B1 * !YN)	0.00027	0.00027	0.00027
	(A0 * !A2 * B0 * !B1 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !B1 * !YN)	-0.00005	-0.00005	-0.00005
	(A0 * !A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !B1 * !YN)	0.00027	0.00027	0.00027
	(A0 * !A2 * !B0 * !B1 * YN)	-0.00011	-0.00010	-0.00009
	(A0 * !A2 * !B0 * !B1 * YN)	-0.00003	-0.00002	-0.00002
	(A0 * !A2 * !B0 * !B1 * YN)	0.00000	0.00001	0.00001
	(A0 * !A2 * !B0 * !B1 * YN)	0.00026	0.00026	0.00026
	(!A0 * A2 * B1 * !YN)	-0.00011	-0.00010	-0.00008
	(!A0 * A2 * B1 * !YN)	-0.00002	-0.00002	-0.00002
	(!A0 * A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(!A0 * A2 * B1 * !YN)	0.00027	0.00027	0.00028
	(!A0 * A2 * B0 * !B1 * !YN)	-0.00011	-0.00010	-0.00008
	(!A0 * A2 * B0 * !B1 * !YN)	-0.00002	-0.00002	-0.00002
	(!A0 * A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(!A0 * A2 * B0 * !B1 * !YN)	0.00027	0.00027	0.00028
	(!A0 * A2 * !B0 * !B1 * YN)	-0.00011	-0.00010	-0.00009
	(!A0 * A2 * !B0 * !B1 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * A2 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(!A0 * A2 * !B0 * !B1 * YN)	0.00026	0.00026	0.00026
	(!A0 * !A2 * !B0 * !B1 * YN)	-0.00014	-0.00014	-0.00014
	(!A0 * !A2 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * !B0 * !B1 * YN)	0.00001	0.00002	0.00002
	(!A0 * !A2 * !B0 * !B1 * YN)	0.00021	0.00022	0.00022

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI32X0P7H7H	**(A0 * A2 * B1 * !YN)**	0.00000	0.00000	0.00000
	(A0 * A2 * B1 * !YN)	0.00006	0.00006	0.00006
	(A0 * A2 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B1 * !YN)	-0.00027	-0.00027	-0.00027
	(A0 * A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * !B1 * !YN)	0.00006	0.00006	0.00006
	(A0 * A2 * B0 * !B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B0 * !B1 * !YN)	-0.00027	-0.00027	-0.00027
	(A0 * A2 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(A0 * A2 * !B0 * !B1 * YN)	0.00006	0.00006	0.00006
	(A0 * A2 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * !B0 * !B1 * YN)	-0.00027	-0.00026	-0.00026
	(A0 * !A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B1 * !YN)	0.00005	0.00005	0.00005
	(A0 * !A2 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * B1 * !YN)	-0.00027	-0.00027	-0.00027
	(A0 * !A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !B1 * !YN)	0.00005	0.00005	0.00005
	(A0 * !A2 * B0 * !B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * B0 * !B1 * !YN)	-0.00027	-0.00027	-0.00027
	(A0 * !A2 * !B0 * !B1 * YN)	0.00011	0.00011	0.00011
	(A0 * !A2 * !B0 * !B1 * YN)	0.00002	0.00002	0.00003
	(A0 * !A2 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * !B0 * !B1 * YN)	-0.00026	-0.00026	-0.00026
	(!A0 * A2 * B1 * !YN)	0.00010	0.00011	0.00011
	(!A0 * A2 * B1 * !YN)	0.00002	0.00002	0.00002
	(!A0 * A2 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * B1 * !YN)	-0.00027	-0.00027	-0.00027
	(!A0 * A2 * B0 * !B1 * !YN)	0.00010	0.00011	0.00011
	(!A0 * A2 * B0 * !B1 * !YN)	0.00002	0.00002	0.00002
	(!A0 * A2 * B0 * !B1 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * B0 * !B1 * !YN)	-0.00027	-0.00027	-0.00027
	(!A0 * A2 * !B0 * !B1 * YN)	0.00011	0.00011	0.00011
	(!A0 * A2 * !B0 * !B1 * YN)	0.00002	0.00002	0.00002
	(!A0 * A2 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * !B0 * !B1 * YN)	-0.00026	-0.00026	-0.00026
	(!A0 * !A2 * !B0 * !B1 * YN)	0.00014	0.00014	0.00014
	(!A0 * !A2 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A2 * !B0 * !B1 * YN)	-0.00002	-0.00002	-0.00001
	(!A0 * !A2 * !B0 * !B1 * YN)	-0.00022	-0.00020	-0.00018

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X0P7H7H	(A1 * B1 * !YN)	-0.00000	-0.00000	0.00000
	(A1 * B1 * !YN)	-0.00004	-0.00003	-0.00003
	(A1 * B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * B1 * !YN)	0.00032	0.00032	0.00032
	(A1 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * !YN)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * !YN)	0.00032	0.00032	0.00032
	(A1 * !B0 * !B1 * YN)	-0.00012	-0.00011	-0.00010
	(A1 * !B0 * !B1 * YN)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !B1 * YN)	0.00000	0.00000	0.00001
	(A1 * !B0 * !B1 * YN)	0.00025	0.00026	0.00026
	(A0 * !A1 * B1 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * !YN)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * !YN)	0.00032	0.00032	0.00032
	(A0 * !A1 * B0 * !B1 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * !YN)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * !YN)	0.00032	0.00032	0.00032
	(A0 * !A1 * !B0 * !B1 * YN)	-0.00012	-0.00010	-0.00009
	(A0 * !A1 * !B0 * !B1 * YN)	-0.00003	-0.00002	-0.00002
	(A0 * !A1 * !B0 * !B1 * YN)	0.00000	0.00000	0.00001
	(A0 * !A1 * !B0 * !B1 * YN)	0.00025	0.00026	0.00026
	(!A0 * !A1 * !B0 * !B1 * YN)	-0.00015	-0.00015	-0.00015
	(!A0 * !A1 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * !B1 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !B0 * !B1 * YN)	0.00020	0.00020	0.00021

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X0P7H7H	(A1 * B1 * !YN)	-0.00000	0.00000	0.00000
	(A1 * B1 * !YN)	0.00004	0.00004	0.00004
	(A1 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * !YN)	-0.00032	-0.00032	-0.00031
	(A1 * B0 * !B1 * !YN)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !B1 * !YN)	0.00004	0.00004	0.00004
	(A1 * B0 * !B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * !YN)	-0.00032	-0.00032	-0.00031
	(A1 * !B0 * !B1 * YN)	0.00012	0.00012	0.00012
	(A1 * !B0 * !B1 * YN)	0.00002	0.00002	0.00002
	(A1 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * YN)	-0.00026	-0.00025	-0.00025
	(A0 * !A1 * B1 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * !YN)	0.00003	0.00003	0.00004
	(A0 * !A1 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * !YN)	-0.00032	-0.00032	-0.00031
	(A0 * !A1 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * !YN)	0.00003	0.00003	0.00004
	(A0 * !A1 * B0 * !B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * !B1 * !YN)	-0.00032	-0.00032	-0.00032
	(A0 * !A1 * !B0 * !B1 * YN)	0.00012	0.00012	0.00012
	(A0 * !A1 * !B0 * !B1 * YN)	0.00002	0.00002	0.00003
	(A0 * !A1 * !B0 * !B1 * YN)	-0.00001	-0.00000	-0.00000
	(A0 * !A1 * !B0 * !B1 * YN)	-0.00026	-0.00026	-0.00025
	(!A0 * !A1 * !B0 * !B1 * YN)	0.00015	0.00015	0.00015
	(!A0 * !A1 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * !B1 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !B0 * !B1 * YN)	-0.00020	-0.00019	-0.00016

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X0P7H7H	(A2 * B1 * !YN)	-0.00010	-0.00009	-0.00008
	(A2 * B1 * !YN)	-0.00002	-0.00002	-0.00002
	(A2 * B1 * !YN)	0.00000	0.00000	0.00001
	(A2 * B1 * !YN)	0.00033	0.00033	0.00033
	(A1 * !A2 * B1 * !YN)	-0.00010	-0.00009	-0.00008
	(A1 * !A2 * B1 * !YN)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * B1 * !YN)	0.00000	0.00000	0.00001
	(A1 * !A2 * B1 * !YN)	0.00032	0.00033	0.00033
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00010	-0.00009	-0.00008
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * !A2 * B1 * !YN)	0.00000	0.00000	0.00001
	(A0 * !A1 * !A2 * B1 * !YN)	0.00032	0.00033	0.00033
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00021	-0.00020	-0.00019
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * B1 * YN)	0.00002	0.00003	0.00003
	(!A0 * !A1 * !A2 * B1 * YN)	0.00010	0.00010	0.00010
	(!A0 * !A1 * !A2 * !B1 * YN)	-0.00023	-0.00022	-0.00022
	(!A0 * !A1 * !A2 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !A2 * !B1 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * !B1 * YN)	0.00010	0.00010	0.00010

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X0P7H7H	(A2 * B1 * !YN)	0.00010	0.00010	0.00010
	(A2 * B1 * !YN)	0.00002	0.00002	0.00002
	(A2 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A2 * B1 * !YN)	-0.00033	-0.00032	-0.00032
	(A1 * !A2 * B1 * !YN)	0.00010	0.00010	0.00010
	(A1 * !A2 * B1 * !YN)	0.00002	0.00002	0.00002
	(A1 * !A2 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B1 * !YN)	-0.00033	-0.00032	-0.00032
	(A0 * !A1 * !A2 * B1 * !YN)	0.00010	0.00010	0.00010
	(A0 * !A1 * !A2 * B1 * !YN)	0.00002	0.00002	0.00002
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00033	-0.00032	-0.00032
	(!A0 * !A1 * !A2 * B1 * YN)	0.00021	0.00021	0.00021
	(!A0 * !A1 * !A2 * B1 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00010	-0.00010	-0.00010
	(!A0 * !A1 * !A2 * !B1 * YN)	0.00023	0.00023	0.00023
	(!A0 * !A1 * !A2 * !B1 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !A2 * !B1 * YN)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * !A2 * !B1 * YN)	-0.00010	-0.00010	-0.00010

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X0P7H7H	(A2 * B0 * !YN)	-0.00000	-0.00000	0.00000
	(A2 * B0 * !YN)	-0.00003	-0.00003	-0.00003
	(A2 * B0 * !YN)	0.00000	0.00001	0.00001
	(A2 * B0 * !YN)	0.00035	0.00035	0.00035
	(A1 * !A2 * B0 * !YN)	-0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !YN)	-0.00003	-0.00003	-0.00003
	(A1 * !A2 * B0 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !YN)	0.00034	0.00035	0.00035
	(A0 * !A1 * !A2 * B0 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * !YN)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * !A2 * B0 * !YN)	0.00000	0.00000	0.00001
	(A0 * !A1 * !A2 * B0 * !YN)	0.00034	0.00035	0.00035
	(!A0 * !A1 * !A2 * B0 * YN)	-0.00025	-0.00024	-0.00022
	(!A0 * !A1 * !A2 * B0 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * B0 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * B0 * YN)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !A2 * !B0 * YN)	-0.00027	-0.00027	-0.00027
	(!A0 * !A1 * !A2 * !B0 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !A2 * !B0 * YN)	0.00002	0.00003	0.00003
	(!A0 * !A1 * !A2 * !B0 * YN)	0.00004	0.00004	0.00005

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X0P7H7H	(A2 * B0 * !YN)	-0.00000	0.00000	0.00000
	(A2 * B0 * !YN)	0.00003	0.00003	0.00004
	(A2 * B0 * !YN)	-0.00000	-0.00000	-0.00000
	(A2 * B0 * !YN)	-0.00035	-0.00035	-0.00034
	(A1 * !A2 * B0 * !YN)	-0.00000	-0.00000	0.00000
	(A1 * !A2 * B0 * !YN)	0.00003	0.00003	0.00003
	(A1 * !A2 * B0 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * !YN)	-0.00035	-0.00035	-0.00034
	(A0 * !A1 * !A2 * B0 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * !YN)	0.00003	0.00003	0.00003
	(A0 * !A1 * !A2 * B0 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !A2 * B0 * !YN)	-0.00035	-0.00035	-0.00034
	(!A0 * !A1 * !A2 * B0 * YN)	0.00025	0.00025	0.00025
	(!A0 * !A1 * !A2 * B0 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * B0 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * B0 * YN)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !A2 * !B0 * YN)	0.00027	0.00027	0.00028
	(!A0 * !A1 * !A2 * !B0 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !A2 * !B0 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * !B0 * YN)	-0.00004	-0.00004	-0.00004

OAI32X1H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI32 cell provides the logical inverted AND of two OR groups. The output (Y) is represented by the logic equation:

Truth Table

INPUT					OUTPUT
A0	A1	A2	B0	B1	YN
0	0	0	x	x	1
0	x	1	0	0	1
0	x	1	x	1	0
0	x	1	1	x	0
x	1	x	0	0	1
x	1	x	x	1	0
x	1	x	1	x	0
1	x	x	0	0	1
1	x	x	x	1	0
1	x	x	1	x	0

Footprint

Cell Name	Area
OAI32X1H7H	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	A1	A2	B0	B1	YN
OAI32X1H7H	0.00085	0.00089	0.00098	0.00092	0.00102	0.01278

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI32X1H7H	0.00000	0.01693	0.02507

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI32X1H7H	A0->YN (FR)	0.10186	0.26832	0.72452
	A1->YN (FR)	0.09974	0.27034	0.74896
	A2->YN (FR)	0.09158	0.25650	0.72410
	B0->YN (FR)	0.04601	0.17676	0.57502
	B1->YN (FR)	0.04268	0.16905	0.57023

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI32X1H7H	A0->YN (RF)	0.04929	0.16314	0.49601
	A1->YN (RF)	0.04724	0.15965	0.49199
	A2->YN (RF)	0.04404	0.15492	0.48723
	B0->YN (RF)	0.03929	0.14619	0.48460
	B1->YN (RF)	0.03634	0.14163	0.47968

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI32X1H7H	A0	0.00189	0.00192	0.00194
	A0	-0.00019	-0.00019	-0.00019
	A0	0.00018	0.00019	0.00019
	A0	-0.00012	-0.00010	-0.00008
	A1	0.00172	0.00175	0.00177
	A1	-0.00014	-0.00014	-0.00013
	A1	0.00018	0.00019	0.00019
	A1	-0.00007	-0.00004	-0.00002
	A2	0.00150	0.00155	0.00159
	A2	-0.00007	-0.00007	-0.00007
	A2	0.00018	0.00019	0.00019
	A2	-0.00008	-0.00005	-0.00002
	B0	0.00143	0.00146	0.00150
	B0	-0.00014	-0.00013	-0.00013
	B0	0.00006	0.00006	0.00007
	B0	-0.00016	-0.00012	-0.00008
	B1	0.00124	0.00128	0.00133
	B1	-0.00007	-0.00007	-0.00007
	B1	0.00006	0.00006	0.00007
	B1	-0.00013	-0.00009	-0.00005

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI32X1H7H	A0	-0.00010	-0.00009	-0.00008
	A0	0.00025	0.00026	0.00026
	A0	-0.00018	-0.00018	-0.00018
	A0	0.00190	0.00193	0.00194
	A1	-0.00011	-0.00008	-0.00007
	A1	0.00020	0.00020	0.00020
	A1	-0.00018	-0.00018	-0.00018
	A1	0.00173	0.00175	0.00176
	A2	-0.00012	-0.00008	-0.00006
	A2	0.00013	0.00014	0.00014
	A2	-0.00018	-0.00018	-0.00018
	A2	0.00157	0.00160	0.00163
	B0	-0.00013	-0.00010	-0.00008
	B0	0.00025	0.00025	0.00026
	B0	-0.00006	-0.00006	-0.00005
	B0	0.00131	0.00137	0.00140
	B1	-0.00013	-0.00009	-0.00006
	B1	0.00019	0.00019	0.00019
	B1	-0.00006	-0.00006	-0.00006
	B1	0.00117	0.00120	0.00124

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI32X1H7H	**(A1 * A2 * B1 * !YN)**	-0.00012	-0.00011	-0.00009
	(A1 * A2 * B1 * !YN)	-0.00003	-0.00003	-0.00003
	(A1 * A2 * B1 * !YN)	0.00000	0.00001	0.00001
	(A1 * A2 * B1 * !YN)	0.00031	0.00031	0.00031
	(A1 * A2 * B0 * !B1 * !YN)	-0.00012	-0.00011	-0.00009
	(A1 * A2 * B0 * !B1 * !YN)	-0.00003	-0.00003	-0.00003
	(A1 * A2 * B0 * !B1 * !YN)	0.00000	0.00001	0.00001
	(A1 * A2 * B0 * !B1 * !YN)	0.00031	0.00031	0.00031
	(A1 * !B0 * !B1 * YN)	-0.00012	-0.00011	-0.00009
	(A1 * !B0 * !B1 * YN)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * !B1 * YN)	0.00000	0.00001	0.00001
	(A1 * !B0 * !B1 * YN)	0.00031	0.00031	0.00031
	(A1 * !A2 * B1 * !YN)	-0.00012	-0.00011	-0.00009
	(A1 * !A2 * B1 * !YN)	-0.00003	-0.00003	-0.00003
	(A1 * !A2 * B1 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B1 * !YN)	0.00031	0.00031	0.00031
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00012	-0.00011	-0.00009
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00003	-0.00003	-0.00002
	(A1 * !A2 * B0 * !B1 * !YN)	0.00000	0.00001	0.00001
	(A1 * !A2 * B0 * !B1 * !YN)	0.00031	0.00031	0.00031
	(!A1 * A2 * B1 * !YN)	-0.00011	-0.00010	-0.00008
	(!A1 * A2 * B1 * !YN)	-0.00003	-0.00003	-0.00002
	(!A1 * A2 * B1 * !YN)	0.00001	0.00001	0.00001
	(!A1 * A2 * B1 * !YN)	0.00031	0.00031	0.00031
	(!A1 * A2 * B0 * !B1 * !YN)	-0.00011	-0.00010	-0.00008
	(!A1 * A2 * B0 * !B1 * !YN)	-0.00003	-0.00003	-0.00002
	(!A1 * A2 * B0 * !B1 * !YN)	0.00000	0.00001	0.00001
	(!A1 * A2 * B0 * !B1 * !YN)	0.00031	0.00031	0.00031
	(!A1 * A2 * !B0 * !B1 * YN)	-0.00011	-0.00010	-0.00008
	(!A1 * A2 * !B0 * !B1 * YN)	-0.00003	-0.00003	-0.00002
	(!A1 * A2 * !B0 * !B1 * YN)	0.00000	0.00001	0.00001
	(!A1 * A2 * !B0 * !B1 * YN)	0.00031	0.00031	0.00031
	(!A1 * !A2 * !B0 * !B1 * YN)	-0.00015	-0.00015	-0.00015
	(!A1 * !A2 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B0 * !B1 * YN)	0.00002	0.00002	0.00002
	(!A1 * !A2 * !B0 * !B1 * YN)	0.00026	0.00027	0.00027

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI32X1H7H	**(A1 * A2 * B1 * !YN)**	0.00012	0.00012	0.00012
	(A1 * A2 * B1 * !YN)	0.00003	0.00003	0.00003
	(A1 * A2 * B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * A2 * B1 * !YN)	-0.00031	-0.00031	-0.00031
	(A1 * A2 * B0 * !B1 * !YN)	0.00012	0.00012	0.00012
	(A1 * A2 * B0 * !B1 * !YN)	0.00003	0.00003	0.00003
	(A1 * A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * A2 * B0 * !B1 * !YN)	-0.00031	-0.00031	-0.00031
	(A1 * !B0 * !B1 * YN)	0.00012	0.00012	0.00012
	(A1 * !B0 * !B1 * YN)	0.00003	0.00003	0.00003
	(A1 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * !B1 * YN)	-0.00031	-0.00031	-0.00031
	(A1 * !A2 * B1 * !YN)	0.00012	0.00012	0.00012
	(A1 * !A2 * B1 * !YN)	0.00003	0.00003	0.00003
	(A1 * !A2 * B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * B1 * !YN)	-0.00031	-0.00031	-0.00031
	(A1 * !A2 * B0 * !B1 * !YN)	0.00012	0.00012	0.00012
	(A1 * !A2 * B0 * !B1 * !YN)	0.00002	0.00003	0.00003
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00031	-0.00031	-0.00031
	(!A1 * A2 * B1 * !YN)	0.00011	0.00011	0.00011
	(!A1 * A2 * B1 * !YN)	0.00003	0.00003	0.00003
	(!A1 * A2 * B1 * !YN)	-0.00001	-0.00001	-0.00000
	(!A1 * A2 * B1 * !YN)	-0.00031	-0.00031	-0.00031
	(!A1 * A2 * B0 * !B1 * !YN)	0.00011	0.00011	0.00011
	(!A1 * A2 * B0 * !B1 * !YN)	0.00003	0.00003	0.00003
	(!A1 * A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00000
	(!A1 * A2 * B0 * !B1 * !YN)	-0.00031	-0.00031	-0.00031
	(!A1 * A2 * !B0 * !B1 * YN)	0.00011	0.00011	0.00012
	(!A1 * A2 * !B0 * !B1 * YN)	0.00003	0.00003	0.00003
	(!A1 * A2 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00000
	(!A1 * A2 * !B0 * !B1 * YN)	-0.00031	-0.00031	-0.00031
	(!A1 * !A2 * !B0 * !B1 * YN)	0.00015	0.00015	0.00015
	(!A1 * !A2 * !B0 * !B1 * YN)	0.00001	0.00001	0.00002
	(!A1 * !A2 * !B0 * !B1 * YN)	-0.00002	-0.00002	-0.00002
	(!A1 * !A2 * !B0 * !B1 * YN)	-0.00027	-0.00025	-0.00023

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI32X1H7H	**(A0 * A2 * B1 * !YN)**	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B1 * !YN)	-0.00007	-0.00007	-0.00007
	(A0 * A2 * B1 * !YN)	0.00000	0.00001	0.00001
	(A0 * A2 * B1 * !YN)	0.00027	0.00027	0.00027
	(A0 * A2 * B0 * !B1 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * A2 * B0 * !B1 * !YN)	-0.00007	-0.00007	-0.00007
	(A0 * A2 * B0 * !B1 * !YN)	0.00000	0.00001	0.00001
	(A0 * A2 * B0 * !B1 * !YN)	0.00027	0.00027	0.00027
	(A0 * A2 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * !B0 * !B1 * YN)	-0.00008	-0.00007	-0.00007
	(A0 * A2 * !B0 * !B1 * YN)	0.00000	0.00001	0.00001
	(A0 * A2 * !B0 * !B1 * YN)	0.00027	0.00027	0.00027
	(A0 * !A2 * B1 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A2 * B1 * !YN)	-0.00006	-0.00006	-0.00006
	(A0 * !A2 * B1 * !YN)	0.00000	0.00001	0.00001
	(A0 * !A2 * B1 * !YN)	0.00027	0.00027	0.00027
	(A0 * !A2 * B0 * !B1 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !B1 * !YN)	-0.00006	-0.00006	-0.00006
	(A0 * !A2 * B0 * !B1 * !YN)	0.00000	0.00001	0.00001
	(A0 * !A2 * B0 * !B1 * !YN)	0.00027	0.00027	0.00027
	(A0 * !A2 * !B0 * !B1 * YN)	-0.00012	-0.00011	-0.00009
	(A0 * !A2 * !B0 * !B1 * YN)	-0.00003	-0.00003	-0.00003
	(A0 * !A2 * !B0 * !B1 * YN)	0.00000	0.00001	0.00001
	(A0 * !A2 * !B0 * !B1 * YN)	0.00026	0.00027	0.00027
	(!A0 * A2 * B1 * !YN)	-0.00012	-0.00011	-0.00009
	(!A0 * A2 * B1 * !YN)	-0.00003	-0.00003	-0.00002
	(!A0 * A2 * B1 * !YN)	0.00000	0.00001	0.00001
	(!A0 * A2 * B1 * !YN)	0.00027	0.00027	0.00028
	(!A0 * A2 * B0 * !B1 * !YN)	-0.00012	-0.00011	-0.00009
	(!A0 * A2 * B0 * !B1 * !YN)	-0.00003	-0.00003	-0.00002
	(!A0 * A2 * B0 * !B1 * !YN)	0.00000	0.00001	0.00001
	(!A0 * A2 * B0 * !B1 * !YN)	0.00027	0.00027	0.00027
	(!A0 * A2 * !B0 * !B1 * YN)	-0.00012	-0.00011	-0.00009
	(!A0 * A2 * !B0 * !B1 * YN)	-0.00003	-0.00003	-0.00002
	(!A0 * A2 * !B0 * !B1 * YN)	0.00000	0.00001	0.00001
	(!A0 * A2 * !B0 * !B1 * YN)	0.00027	0.00027	0.00027
	(!A0 * !A2 * !B0 * !B1 * YN)	-0.00015	-0.00015	-0.00015
	(!A0 * !A2 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * !B0 * !B1 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A2 * !B0 * !B1 * YN)	0.00021	0.00021	0.00022

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI32X1H7H	**(A0 * A2 * B1 * !YN)**	0.00000	0.00000	0.00000
	(A0 * A2 * B1 * !YN)	0.00007	0.00007	0.00007
	(A0 * A2 * B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * A2 * B1 * !YN)	-0.00027	-0.00027	-0.00027
	(A0 * A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * !B1 * !YN)	0.00007	0.00007	0.00007
	(A0 * A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * A2 * B0 * !B1 * !YN)	-0.00027	-0.00027	-0.00027
	(A0 * A2 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(A0 * A2 * !B0 * !B1 * YN)	0.00007	0.00007	0.00008
	(A0 * A2 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00000
	(A0 * A2 * !B0 * !B1 * YN)	-0.00027	-0.00027	-0.00027
	(A0 * !A2 * B1 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * !A2 * B1 * !YN)	0.00006	0.00006	0.00006
	(A0 * !A2 * B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A2 * B1 * !YN)	-0.00027	-0.00027	-0.00027
	(A0 * !A2 * B0 * !B1 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !B1 * !YN)	0.00006	0.00006	0.00006
	(A0 * !A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A2 * B0 * !B1 * !YN)	-0.00027	-0.00027	-0.00027
	(A0 * !A2 * !B0 * !B1 * YN)	0.00012	0.00012	0.00012
	(A0 * !A2 * !B0 * !B1 * YN)	0.00003	0.00003	0.00003
	(A0 * !A2 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A2 * !B0 * !B1 * YN)	-0.00027	-0.00027	-0.00026
	(!A0 * A2 * B1 * !YN)	0.00012	0.00012	0.00012
	(!A0 * A2 * B1 * !YN)	0.00002	0.00003	0.00003
	(!A0 * A2 * B1 * !YN)	-0.00001	-0.00001	-0.00000
	(!A0 * A2 * B1 * !YN)	-0.00027	-0.00027	-0.00026
	(!A0 * A2 * B0 * !B1 * !YN)	0.00012	0.00012	0.00012
	(!A0 * A2 * B0 * !B1 * !YN)	0.00002	0.00003	0.00003
	(!A0 * A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00000
	(!A0 * A2 * B0 * !B1 * !YN)	-0.00027	-0.00027	-0.00026
	(!A0 * A2 * !B0 * !B1 * YN)	0.00012	0.00012	0.00012
	(!A0 * A2 * !B0 * !B1 * YN)	0.00003	0.00003	0.00003
	(!A0 * A2 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00000
	(!A0 * A2 * !B0 * !B1 * YN)	-0.00027	-0.00027	-0.00027
	(!A0 * !A2 * !B0 * !B1 * YN)	0.00015	0.00015	0.00016
	(!A0 * !A2 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A2 * !B0 * !B1 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A2 * !B0 * !B1 * YN)	-0.00021	-0.00020	-0.00017

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X1H7H	(A1 * B1 * !YN)	-0.00000	-0.00000	0.00000
	(A1 * B1 * !YN)	-0.00004	-0.00004	-0.00004
	(A1 * B1 * !YN)	0.00000	0.00001	0.00001
	(A1 * B1 * !YN)	0.00033	0.00034	0.00034
	(A1 * B0 * !B1 * !YN)	-0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * !YN)	-0.00004	-0.00004	-0.00004
	(A1 * B0 * !B1 * !YN)	0.00000	0.00001	0.00001
	(A1 * B0 * !B1 * !YN)	0.00033	0.00034	0.00034
	(A1 * !B0 * !B1 * YN)	-0.00015	-0.00014	-0.00012
	(A1 * !B0 * !B1 * YN)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * !B1 * YN)	0.00000	0.00001	0.00001
	(A1 * !B0 * !B1 * YN)	0.00025	0.00025	0.00026
	(A0 * !A1 * B1 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * !YN)	-0.00004	-0.00004	-0.00004
	(A0 * !A1 * B1 * !YN)	0.00000	0.00001	0.00001
	(A0 * !A1 * B1 * !YN)	0.00033	0.00034	0.00034
	(A0 * !A1 * B0 * !B1 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * !YN)	-0.00004	-0.00004	-0.00004
	(A0 * !A1 * B0 * !B1 * !YN)	0.00000	0.00001	0.00001
	(A0 * !A1 * B0 * !B1 * !YN)	0.00034	0.00034	0.00034
	(A0 * !A1 * !B0 * !B1 * YN)	-0.00014	-0.00013	-0.00011
	(A0 * !A1 * !B0 * !B1 * YN)	-0.00004	-0.00003	-0.00002
	(A0 * !A1 * !B0 * !B1 * YN)	0.00000	0.00001	0.00001
	(A0 * !A1 * !B0 * !B1 * YN)	0.00025	0.00025	0.00026
	(!A0 * !A1 * !B0 * !B1 * YN)	-0.00019	-0.00018	-0.00018
	(!A0 * !A1 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * !B1 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !B0 * !B1 * YN)	0.00021	0.00021	0.00021

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X1H7H	(A1 * B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * B1 * !YN)	0.00004	0.00004	0.00004
	(A1 * B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * B1 * !YN)	-0.00034	-0.00034	-0.00033
	(A1 * B0 * !B1 * !YN)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !B1 * !YN)	0.00004	0.00004	0.00004
	(A1 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !B1 * !YN)	-0.00034	-0.00033	-0.00033
	(A1 * !B0 * !B1 * YN)	0.00015	0.00015	0.00015
	(A1 * !B0 * !B1 * YN)	0.00003	0.00003	0.00003
	(A1 * !B0 * !B1 * YN)	-0.00001	-0.00000	-0.00000
	(A1 * !B0 * !B1 * YN)	-0.00025	-0.00025	-0.00025
	(A0 * !A1 * B1 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * !YN)	0.00004	0.00004	0.00004
	(A0 * !A1 * B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B1 * !YN)	-0.00034	-0.00034	-0.00033
	(A0 * !A1 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * !YN)	0.00004	0.00004	0.00004
	(A0 * !A1 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B0 * !B1 * !YN)	-0.00034	-0.00034	-0.00033
	(A0 * !A1 * !B0 * !B1 * YN)	0.00014	0.00014	0.00014
	(A0 * !A1 * !B0 * !B1 * YN)	0.00002	0.00003	0.00004
	(A0 * !A1 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !B0 * !B1 * YN)	-0.00026	-0.00025	-0.00025
	(!A0 * !A1 * !B0 * !B1 * YN)	0.00018	0.00018	0.00019
	(!A0 * !A1 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * !B1 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !B0 * !B1 * YN)	-0.00021	-0.00019	-0.00017

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X1H7H	(A2 * B1 * !YN)	-0.00012	-0.00011	-0.00009
	(A2 * B1 * !YN)	-0.00003	-0.00003	-0.00002
	(A2 * B1 * !YN)	0.00000	0.00001	0.00001
	(A2 * B1 * !YN)	0.00033	0.00033	0.00033
	(A1 * !A2 * B1 * !YN)	-0.00012	-0.00011	-0.00009
	(A1 * !A2 * B1 * !YN)	-0.00003	-0.00003	-0.00002
	(A1 * !A2 * B1 * !YN)	0.00000	0.00001	0.00001
	(A1 * !A2 * B1 * !YN)	0.00033	0.00033	0.00033
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00012	-0.00011	-0.00009
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00003	-0.00003	-0.00002
	(A0 * !A1 * !A2 * B1 * !YN)	0.00000	0.00001	0.00001
	(A0 * !A1 * !A2 * B1 * !YN)	0.00033	0.00033	0.00033
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00024	-0.00023	-0.00021
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * !A2 * B1 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * B1 * YN)	0.00009	0.00009	0.00009
	(!A0 * !A1 * !A2 * !B1 * YN)	-0.00026	-0.00026	-0.00026
	(!A0 * !A1 * !A2 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !A2 * !B1 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * !B1 * YN)	0.00009	0.00009	0.00009

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X1H7H	(A2 * B1 * !YN)	0.00012	0.00012	0.00012
	(A2 * B1 * !YN)	0.00002	0.00003	0.00003
	(A2 * B1 * !YN)	-0.00001	-0.00000	-0.00000
	(A2 * B1 * !YN)	-0.00033	-0.00033	-0.00033
	(A1 * !A2 * B1 * !YN)	0.00012	0.00012	0.00012
	(A1 * !A2 * B1 * !YN)	0.00003	0.00003	0.00003
	(A1 * !A2 * B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * B1 * !YN)	-0.00033	-0.00033	-0.00033
	(A0 * !A1 * !A2 * B1 * !YN)	0.00012	0.00012	0.00012
	(A0 * !A1 * !A2 * B1 * !YN)	0.00003	0.00003	0.00003
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00033	-0.00033	-0.00033
	(!A0 * !A1 * !A2 * B1 * YN)	0.00024	0.00024	0.00024
	(!A0 * !A1 * !A2 * B1 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * !A2 * !B1 * YN)	0.00026	0.00026	0.00027
	(!A0 * !A1 * !A2 * !B1 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !A2 * !B1 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * !B1 * YN)	-0.00009	-0.00009	-0.00009

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X1H7H	(A2 * B0 * !YN)	-0.00000	-0.00000	0.00000
	(A2 * B0 * !YN)	-0.00004	-0.00004	-0.00004
	(A2 * B0 * !YN)	0.00000	0.00001	0.00001
	(A2 * B0 * !YN)	0.00036	0.00037	0.00037
	(A1 * !A2 * B0 * !YN)	-0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !YN)	-0.00004	-0.00004	-0.00004
	(A1 * !A2 * B0 * !YN)	0.00000	0.00001	0.00001
	(A1 * !A2 * B0 * !YN)	0.00036	0.00036	0.00037
	(A0 * !A1 * !A2 * B0 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * !YN)	-0.00004	-0.00004	-0.00004
	(A0 * !A1 * !A2 * B0 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !A2 * B0 * !YN)	0.00036	0.00036	0.00037
	(!A0 * !A1 * !A2 * B0 * YN)	-0.00026	-0.00025	-0.00023
	(!A0 * !A1 * !A2 * B0 * YN)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * !A2 * B0 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * B0 * YN)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !A2 * !B0 * YN)	-0.00029	-0.00029	-0.00029
	(!A0 * !A1 * !A2 * !B0 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !A2 * !B0 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * !B0 * YN)	0.00004	0.00004	0.00004

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X1H7H	(A2 * B0 * !YN)	-0.00000	0.00000	0.00000
	(A2 * B0 * !YN)	0.00004	0.00004	0.00004
	(A2 * B0 * !YN)	-0.00001	-0.00001	-0.00000
	(A2 * B0 * !YN)	-0.00037	-0.00036	-0.00036
	(A1 * !A2 * B0 * !YN)	-0.00000	-0.00000	0.00000
	(A1 * !A2 * B0 * !YN)	0.00004	0.00004	0.00004
	(A1 * !A2 * B0 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * B0 * !YN)	-0.00037	-0.00036	-0.00036
	(A0 * !A1 * !A2 * B0 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * !YN)	0.00004	0.00004	0.00004
	(A0 * !A1 * !A2 * B0 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !A2 * B0 * !YN)	-0.00037	-0.00036	-0.00036
	(!A0 * !A1 * !A2 * B0 * YN)	0.00026	0.00026	0.00026
	(!A0 * !A1 * !A2 * B0 * YN)	0.00002	0.00003	0.00003
	(!A0 * !A1 * !A2 * B0 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * B0 * YN)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !A2 * !B0 * YN)	0.00029	0.00029	0.00029
	(!A0 * !A1 * !A2 * !B0 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !A2 * !B0 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * !B0 * YN)	-0.00004	-0.00004	-0.00004

OAI32X1P4H7H

Cell Description

The OAI32 cell provides the logical inverted AND of two OR groups. The output (Y) is represented by the logic equation:

Truth Table

INPUT					OUTPUT
A0	A1	A2	B0	B1	YN
0	0	0	x	x	1
0	x	1	0	0	1
0	x	1	x	1	0
0	x	1	1	x	0
x	1	x	0	0	1
x	1	x	x	1	0
x	1	x	1	x	0
1	x	x	0	0	1
1	x	x	x	1	0
1	x	x	1	x	0

Footprint

Cell Name	Area
OAI32X1P4H7H	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	A1	A2	B0	B1	YN
OAI32X1P4H7H	0.00090	0.00095	0.00105	0.00100	0.00109	0.01460

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI32X1P4H7H	0.00000	0.02135	0.03668

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI32X1P4H7H	A0->YN (FR)	0.09574	0.26381	0.72499
	A1->YN (FR)	0.09354	0.26563	0.74872
	A2->YN (FR)	0.08511	0.25148	0.72530
	B0->YN (FR)	0.04305	0.17457	0.57641
	B1->YN (FR)	0.03990	0.16709	0.57252

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI32X1P4H7H	A0->YN (RF)	0.04725	0.16220	0.49960
	A1->YN (RF)	0.04517	0.15862	0.49604
	A2->YN (RF)	0.04187	0.15368	0.49069
	B0->YN (RF)	0.03785	0.14584	0.48759
	B1->YN (RF)	0.03466	0.14098	0.48314

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI32X1P4H7H	A0	0.00207	0.00210	0.00213
	A0	-0.00022	-0.00022	-0.00022
	A0	0.00021	0.00021	0.00022
	A0	-0.00014	-0.00011	-0.00009
	A1	0.00187	0.00191	0.00193
	A1	-0.00016	-0.00016	-0.00016
	A1	0.00021	0.00021	0.00022
	A1	-0.00009	-0.00006	-0.00003
	A2	0.00164	0.00168	0.00172
	A2	-0.00009	-0.00009	-0.00008
	A2	0.00021	0.00021	0.00022
	A2	-0.00010	-0.00007	-0.00004
	B0	0.00158	0.00162	0.00166
	B0	-0.00016	-0.00016	-0.00015
	B0	0.00007	0.00007	0.00008
	B0	-0.00018	-0.00013	-0.00010
	B1	0.00137	0.00141	0.00146
	B1	-0.00009	-0.00008	-0.00007
	B1	0.00007	0.00007	0.00008
	B1	-0.00015	-0.00010	-0.00006

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI32X1P4H7H	A0	-0.00012	-0.00010	-0.00009
	A0	0.00029	0.00030	0.00030
	A0	-0.00021	-0.00021	-0.00020
	A0	0.00206	0.00210	0.00212
	A1	-0.00012	-0.00010	-0.00008
	A1	0.00022	0.00023	0.00023
	A1	-0.00021	-0.00021	-0.00020
	A1	0.00188	0.00191	0.00193
	A2	-0.00014	-0.00009	-0.00007
	A2	0.00016	0.00016	0.00016
	A2	-0.00021	-0.00020	-0.00020
	A2	0.00170	0.00174	0.00176
	B0	-0.00015	-0.00012	-0.00009
	B0	0.00029	0.00030	0.00030
	B0	-0.00007	-0.00007	-0.00007
	B0	0.00147	0.00151	0.00155
	B1	-0.00015	-0.00010	-0.00007
	B1	0.00022	0.00022	0.00025
	B1	-0.00007	-0.00007	-0.00007
	B1	0.00127	0.00132	0.00136

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI32X1P4H7H	**(A1 * A2 * B1 * !YN)**	-0.00014	-0.00012	-0.00011
	(A1 * A2 * B1 * !YN)	-0.00003	-0.00003	-0.00003
	(A1 * A2 * B1 * !YN)	0.00000	0.00001	0.00001
	(A1 * A2 * B1 * !YN)	0.00032	0.00032	0.00032
	(A1 * A2 * B0 * !B1 * !YN)	-0.00014	-0.00012	-0.00011
	(A1 * A2 * B0 * !B1 * !YN)	-0.00003	-0.00003	-0.00003
	(A1 * A2 * B0 * !B1 * !YN)	0.00000	0.00001	0.00001
	(A1 * A2 * B0 * !B1 * !YN)	0.00032	0.00032	0.00033
	(A1 * !B0 * !B1 * YN)	-0.00014	-0.00012	-0.00011
	(A1 * !B0 * !B1 * YN)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * YN)	0.00032	0.00032	0.00032
	(A1 * !A2 * B1 * !YN)	-0.00014	-0.00013	-0.00011
	(A1 * !A2 * B1 * !YN)	-0.00003	-0.00003	-0.00003
	(A1 * !A2 * B1 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B1 * !YN)	0.00032	0.00032	0.00032
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00014	-0.00013	-0.00011
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00003	-0.00003	-0.00003
	(A1 * !A2 * B0 * !B1 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * !B1 * !YN)	0.00032	0.00032	0.00032
	(!A1 * A2 * B1 * !YN)	-0.00013	-0.00012	-0.00010
	(!A1 * A2 * B1 * !YN)	-0.00004	-0.00003	-0.00003
	(!A1 * A2 * B1 * !YN)	0.00000	0.00001	0.00001
	(!A1 * A2 * B1 * !YN)	0.00032	0.00032	0.00032
	(!A1 * A2 * B0 * !B1 * !YN)	-0.00013	-0.00012	-0.00010
	(!A1 * A2 * B0 * !B1 * !YN)	-0.00004	-0.00003	-0.00003
	(!A1 * A2 * B0 * !B1 * !YN)	0.00000	0.00001	0.00001
	(!A1 * A2 * B0 * !B1 * !YN)	0.00032	0.00032	0.00032
	(!A1 * A2 * !B0 * !B1 * YN)	-0.00013	-0.00012	-0.00010
	(!A1 * A2 * !B0 * !B1 * YN)	-0.00004	-0.00003	-0.00003
	(!A1 * A2 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * !B1 * YN)	0.00032	0.00032	0.00032
	(!A1 * !A2 * !B0 * !B1 * YN)	-0.00017	-0.00017	-0.00017
	(!A1 * !A2 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B0 * !B1 * YN)	0.00002	0.00002	0.00002
	(!A1 * !A2 * !B0 * !B1 * YN)	0.00027	0.00028	0.00028

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI32X1P4H7H	**(A1 * A2 * B1 * !YN)**	0.00013	0.00014	0.00014
	(A1 * A2 * B1 * !YN)	0.00003	0.00003	0.00003
	(A1 * A2 * B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * A2 * B1 * !YN)	-0.00032	-0.00032	-0.00032
	(A1 * A2 * B0 * !B1 * !YN)	0.00013	0.00013	0.00014
	(A1 * A2 * B0 * !B1 * !YN)	0.00003	0.00003	0.00003
	(A1 * A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * A2 * B0 * !B1 * !YN)	-0.00032	-0.00032	-0.00032
	(A1 * !B0 * !B1 * YN)	0.00013	0.00014	0.00014
	(A1 * !B0 * !B1 * YN)	0.00003	0.00003	0.00003
	(A1 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * !B1 * YN)	-0.00032	-0.00032	-0.00032
	(A1 * !A2 * B1 * !YN)	0.00013	0.00014	0.00014
	(A1 * !A2 * B1 * !YN)	0.00003	0.00003	0.00003
	(A1 * !A2 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B1 * !YN)	-0.00032	-0.00032	-0.00032
	(A1 * !A2 * B0 * !B1 * !YN)	0.00013	0.00014	0.00014
	(A1 * !A2 * B0 * !B1 * !YN)	0.00003	0.00003	0.00003
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00032	-0.00032	-0.00032
	(!A1 * A2 * B1 * !YN)	0.00013	0.00013	0.00013
	(!A1 * A2 * B1 * !YN)	0.00003	0.00003	0.00004
	(!A1 * A2 * B1 * !YN)	-0.00001	-0.00001	-0.00000
	(!A1 * A2 * B1 * !YN)	-0.00032	-0.00032	-0.00032
	(!A1 * A2 * B0 * !B1 * !YN)	0.00013	0.00013	0.00013
	(!A1 * A2 * B0 * !B1 * !YN)	0.00003	0.00003	0.00004
	(!A1 * A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00000
	(!A1 * A2 * B0 * !B1 * !YN)	-0.00032	-0.00032	-0.00032
	(!A1 * A2 * !B0 * !B1 * YN)	0.00013	0.00013	0.00013
	(!A1 * A2 * !B0 * !B1 * YN)	0.00003	0.00003	0.00004
	(!A1 * A2 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * !B1 * YN)	-0.00032	-0.00032	-0.00032
	(!A1 * !A2 * !B0 * !B1 * YN)	0.00017	0.00017	0.00017
	(!A1 * !A2 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B0 * !B1 * YN)	-0.00002	-0.00002	-0.00002
	(!A1 * !A2 * !B0 * !B1 * YN)	-0.00028	-0.00026	-0.00023

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI32X1P4H7H	**(A0 * A2 * B1 * !YN)**	-0.00000	-0.00000	0.00000
	(A0 * A2 * B1 * !YN)	-0.00008	-0.00008	-0.00008
	(A0 * A2 * B1 * !YN)	0.00000	0.00001	0.00001
	(A0 * A2 * B1 * !YN)	0.00029	0.00029	0.00029
	(A0 * A2 * B0 * !B1 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * A2 * B0 * !B1 * !YN)	-0.00009	-0.00008	-0.00008
	(A0 * A2 * B0 * !B1 * !YN)	0.00000	0.00001	0.00001
	(A0 * A2 * B0 * !B1 * !YN)	0.00029	0.00029	0.00029
	(A0 * A2 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * !B0 * !B1 * YN)	-0.00009	-0.00009	-0.00009
	(A0 * A2 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(A0 * A2 * !B0 * !B1 * YN)	0.00028	0.00028	0.00029
	(A0 * !A2 * B1 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * !A2 * B1 * !YN)	-0.00007	-0.00007	-0.00007
	(A0 * !A2 * B1 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A2 * B1 * !YN)	0.00028	0.00029	0.00029
	(A0 * !A2 * B0 * !B1 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !B1 * !YN)	-0.00007	-0.00007	-0.00007
	(A0 * !A2 * B0 * !B1 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A2 * B0 * !B1 * !YN)	0.00028	0.00028	0.00029
	(A0 * !A2 * !B0 * !B1 * YN)	-0.00014	-0.00012	-0.00010
	(A0 * !A2 * !B0 * !B1 * YN)	-0.00003	-0.00003	-0.00003
	(A0 * !A2 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B0 * !B1 * YN)	0.00028	0.00028	0.00029
	(!A0 * A2 * B1 * !YN)	-0.00014	-0.00013	-0.00010
	(!A0 * A2 * B1 * !YN)	-0.00003	-0.00003	-0.00003
	(!A0 * A2 * B1 * !YN)	0.00001	0.00001	0.00001
	(!A0 * A2 * B1 * !YN)	0.00028	0.00028	0.00029
	(!A0 * A2 * B0 * !B1 * !YN)	-0.00014	-0.00013	-0.00010
	(!A0 * A2 * B0 * !B1 * !YN)	-0.00003	-0.00003	-0.00003
	(!A0 * A2 * B0 * !B1 * !YN)	0.00000	0.00001	0.00001
	(!A0 * A2 * B0 * !B1 * !YN)	0.00028	0.00028	0.00029
	(!A0 * A2 * !B0 * !B1 * YN)	-0.00014	-0.00013	-0.00011
	(!A0 * A2 * !B0 * !B1 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * A2 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(!A0 * A2 * !B0 * !B1 * YN)	0.00028	0.00028	0.00028
	(!A0 * !A2 * !B0 * !B1 * YN)	-0.00018	-0.00017	-0.00017
	(!A0 * !A2 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * !B0 * !B1 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A2 * !B0 * !B1 * YN)	0.00022	0.00023	0.00023

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI32X1P4H7H	**(A0 * A2 * B1 * !YN)**	0.00000	0.00000	0.00000
	(A0 * A2 * B1 * !YN)	0.00008	0.00008	0.00008
	(A0 * A2 * B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * A2 * B1 * !YN)	-0.00029	-0.00028	-0.00028
	(A0 * A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * !B1 * !YN)	0.00008	0.00008	0.00009
	(A0 * A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * A2 * B0 * !B1 * !YN)	-0.00029	-0.00028	-0.00028
	(A0 * A2 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(A0 * A2 * !B0 * !B1 * YN)	0.00009	0.00009	0.00009
	(A0 * A2 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * A2 * !B0 * !B1 * YN)	-0.00029	-0.00028	-0.00028
	(A0 * !A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B1 * !YN)	0.00007	0.00007	0.00007
	(A0 * !A2 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * B1 * !YN)	-0.00029	-0.00028	-0.00028
	(A0 * !A2 * B0 * !B1 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * !A2 * B0 * !B1 * !YN)	0.00007	0.00007	0.00007
	(A0 * !A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * B0 * !B1 * !YN)	-0.00029	-0.00028	-0.00028
	(A0 * !A2 * !B0 * !B1 * YN)	0.00014	0.00014	0.00014
	(A0 * !A2 * !B0 * !B1 * YN)	0.00003	0.00003	0.00003
	(A0 * !A2 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B0 * !B1 * YN)	-0.00029	-0.00028	-0.00028
	(!A0 * A2 * B1 * !YN)	0.00014	0.00014	0.00014
	(!A0 * A2 * B1 * !YN)	0.00003	0.00003	0.00003
	(!A0 * A2 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B1 * !YN)	-0.00028	-0.00028	-0.00028
	(!A0 * A2 * B0 * !B1 * !YN)	0.00014	0.00014	0.00014
	(!A0 * A2 * B0 * !B1 * !YN)	0.00003	0.00003	0.00003
	(!A0 * A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00000
	(!A0 * A2 * B0 * !B1 * !YN)	-0.00028	-0.00028	-0.00028
	(!A0 * A2 * !B0 * !B1 * YN)	0.00014	0.00014	0.00014
	(!A0 * A2 * !B0 * !B1 * YN)	0.00003	0.00003	0.00003
	(!A0 * A2 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * !B0 * !B1 * YN)	-0.00028	-0.00028	-0.00028
	(!A0 * !A2 * !B0 * !B1 * YN)	0.00018	0.00018	0.00018
	(!A0 * !A2 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A2 * !B0 * !B1 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A2 * !B0 * !B1 * YN)	-0.00023	-0.00021	-0.00018

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X1P4H7H	(A1 * B1 * !YN)	-0.00000	-0.00000	0.00000
	(A1 * B1 * !YN)	-0.00005	-0.00005	-0.00005
	(A1 * B1 * !YN)	0.00000	0.00001	0.00001
	(A1 * B1 * !YN)	0.00036	0.00036	0.00036
	(A1 * B0 * !B1 * !YN)	-0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * !YN)	-0.00005	-0.00005	-0.00005
	(A1 * B0 * !B1 * !YN)	0.00001	0.00001	0.00001
	(A1 * B0 * !B1 * !YN)	0.00035	0.00036	0.00036
	(A1 * !B0 * !B1 * YN)	-0.00017	-0.00015	-0.00013
	(A1 * !B0 * !B1 * YN)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * !B1 * YN)	0.00000	0.00001	0.00001
	(A1 * !B0 * !B1 * YN)	0.00027	0.00027	0.00027
	(A0 * !A1 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * !YN)	-0.00005	-0.00005	-0.00004
	(A0 * !A1 * B1 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * B1 * !YN)	0.00035	0.00036	0.00036
	(A0 * !A1 * B0 * !B1 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * !YN)	-0.00005	-0.00005	-0.00005
	(A0 * !A1 * B0 * !B1 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * B0 * !B1 * !YN)	0.00035	0.00036	0.00036
	(A0 * !A1 * !B0 * !B1 * YN)	-0.00016	-0.00014	-0.00012
	(A0 * !A1 * !B0 * !B1 * YN)	-0.00004	-0.00003	-0.00003
	(A0 * !A1 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B0 * !B1 * YN)	0.00027	0.00027	0.00027
	(!A0 * !A1 * !B0 * !B1 * YN)	-0.00021	-0.00020	-0.00020
	(!A0 * !A1 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * !B1 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !B0 * !B1 * YN)	0.00022	0.00022	0.00022

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X1P4H7H	(A1 * B1 * !YN)	-0.00000	0.00000	0.00000
	(A1 * B1 * !YN)	0.00005	0.00005	0.00005
	(A1 * B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * B1 * !YN)	-0.00036	-0.00036	-0.00035
	(A1 * B0 * !B1 * !YN)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !B1 * !YN)	0.00005	0.00005	0.00005
	(A1 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !B1 * !YN)	-0.00036	-0.00036	-0.00035
	(A1 * !B0 * !B1 * YN)	0.00017	0.00017	0.00017
	(A1 * !B0 * !B1 * YN)	0.00003	0.00003	0.00003
	(A1 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * !B1 * YN)	-0.00027	-0.00027	-0.00026
	(A0 * !A1 * B1 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * B1 * !YN)	0.00005	0.00005	0.00005
	(A0 * !A1 * B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B1 * !YN)	-0.00036	-0.00036	-0.00035
	(A0 * !A1 * B0 * !B1 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * !YN)	0.00005	0.00005	0.00005
	(A0 * !A1 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B0 * !B1 * !YN)	-0.00036	-0.00036	-0.00035
	(A0 * !A1 * !B0 * !B1 * YN)	0.00016	0.00016	0.00016
	(A0 * !A1 * !B0 * !B1 * YN)	0.00003	0.00003	0.00004
	(A0 * !A1 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B0 * !B1 * YN)	-0.00027	-0.00027	-0.00027
	(!A0 * !A1 * !B0 * !B1 * YN)	0.00021	0.00020	0.00021
	(!A0 * !A1 * !B0 * !B1 * YN)	0.00001	0.00001	0.00002
	(!A0 * !A1 * !B0 * !B1 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !B0 * !B1 * YN)	-0.00022	-0.00020	-0.00018

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X1P4H7H	(A2 * B1 * !YN)	-0.00014	-0.00012	-0.00010
	(A2 * B1 * !YN)	-0.00003	-0.00003	-0.00003
	(A2 * B1 * !YN)	0.00001	0.00001	0.00001
	(A2 * B1 * !YN)	0.00035	0.00035	0.00035
	(A1 * !A2 * B1 * !YN)	-0.00014	-0.00012	-0.00011
	(A1 * !A2 * B1 * !YN)	-0.00003	-0.00003	-0.00003
	(A1 * !A2 * B1 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B1 * !YN)	0.00035	0.00035	0.00035
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00014	-0.00012	-0.00010
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * !A2 * B1 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !A2 * B1 * !YN)	0.00035	0.00035	0.00035
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00026	-0.00025	-0.00023
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * B1 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * B1 * YN)	0.00009	0.00009	0.00009
	(!A0 * !A1 * !A2 * !B1 * YN)	-0.00029	-0.00029	-0.00028
	(!A0 * !A1 * !A2 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !A2 * !B1 * YN)	0.00003	0.00004	0.00004
	(!A0 * !A1 * !A2 * !B1 * YN)	0.00009	0.00009	0.00009

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X1P4H7H	(A2 * B1 * !YN)	0.00013	0.00014	0.00014
	(A2 * B1 * !YN)	0.00003	0.00003	0.00003
	(A2 * B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A2 * B1 * !YN)	-0.00035	-0.00035	-0.00034
	(A1 * !A2 * B1 * !YN)	0.00014	0.00014	0.00014
	(A1 * !A2 * B1 * !YN)	0.00003	0.00003	0.00003
	(A1 * !A2 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B1 * !YN)	-0.00035	-0.00035	-0.00035
	(A0 * !A1 * !A2 * B1 * !YN)	0.00014	0.00014	0.00014
	(A0 * !A1 * !A2 * B1 * !YN)	0.00003	0.00003	0.00003
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00035	-0.00035	-0.00035
	(!A0 * !A1 * !A2 * B1 * YN)	0.00026	0.00026	0.00026
	(!A0 * !A1 * !A2 * B1 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * !A2 * !B1 * YN)	0.00029	0.00029	0.00029
	(!A0 * !A1 * !A2 * !B1 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !A2 * !B1 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * !B1 * YN)	-0.00009	-0.00009	-0.00009

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X1P4H7H	(A2 * B0 * !YN)	-0.00000	-0.00000	0.00000
	(A2 * B0 * !YN)	-0.00005	-0.00005	-0.00005
	(A2 * B0 * !YN)	0.00001	0.00001	0.00001
	(A2 * B0 * !YN)	0.00039	0.00039	0.00039
	(A1 * !A2 * B0 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !YN)	-0.00005	-0.00005	-0.00004
	(A1 * !A2 * B0 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * !YN)	0.00038	0.00039	0.00039
	(A0 * !A1 * !A2 * B0 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * !YN)	-0.00005	-0.00005	-0.00004
	(A0 * !A1 * !A2 * B0 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !A2 * B0 * !YN)	0.00038	0.00039	0.00039
	(!A0 * !A1 * !A2 * B0 * YN)	-0.00029	-0.00027	-0.00025
	(!A0 * !A1 * !A2 * B0 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * B0 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * B0 * YN)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !A2 * !B0 * YN)	-0.00032	-0.00031	-0.00031
	(!A0 * !A1 * !A2 * !B0 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !A2 * !B0 * YN)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !A2 * !B0 * YN)	0.00004	0.00004	0.00005

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X1P4H7H	(A2 * B0 * !YN)	-0.00000	0.00000	0.00000
	(A2 * B0 * !YN)	0.00005	0.00005	0.00005
	(A2 * B0 * !YN)	-0.00001	-0.00001	-0.00001
	(A2 * B0 * !YN)	-0.00039	-0.00039	-0.00039
	(A1 * !A2 * B0 * !YN)	-0.00000	-0.00000	0.00000
	(A1 * !A2 * B0 * !YN)	0.00005	0.00005	0.00005
	(A1 * !A2 * B0 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * !YN)	-0.00039	-0.00039	-0.00038
	(A0 * !A1 * !A2 * B0 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * !YN)	0.00005	0.00005	0.00005
	(A0 * !A1 * !A2 * B0 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !A2 * B0 * !YN)	-0.00039	-0.00039	-0.00038
	(!A0 * !A1 * !A2 * B0 * YN)	0.00028	0.00028	0.00029
	(!A0 * !A1 * !A2 * B0 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * B0 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * B0 * YN)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !A2 * !B0 * YN)	0.00031	0.00032	0.00032
	(!A0 * !A1 * !A2 * !B0 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !A2 * !B0 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * !B0 * YN)	-0.00004	-0.00004	-0.00004

OAI32X2H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI32 cell provides the logical inverted AND of two OR groups. The output (Y) is represented by the logic equation:

Truth Table

INPUT					OUTPUT
A0	A1	A2	B0	B1	YN
0	0	0	x	x	1
0	x	1	0	0	1
0	x	1	x	1	0
0	x	1	1	x	0
x	1	x	0	0	1
x	1	x	x	1	0
x	1	x	1	x	0
1	x	x	0	0	1
1	x	x	x	1	0
1	x	x	1	x	0

Footprint

Cell Name	Area
OAI32X2H7H	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	A1	A2	B0	B1	YN
OAI32X2H7H	0.00099	0.00106	0.00117	0.00108	0.00121	0.01688

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI32X2H7H	0.00000	0.02933	0.05702

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI32X2H7H	A0->YN (FR)	0.09190	0.26173	0.72763
	A1->YN (FR)	0.08978	0.26338	0.75143
	A2->YN (FR)	0.08111	0.24879	0.72694
	B0->YN (FR)	0.04067	0.17319	0.57859
	B1->YN (FR)	0.03753	0.16545	0.57489

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI32X2H7H	A0->YN (RF)	0.04479	0.15911	0.49700
	A1->YN (RF)	0.04281	0.15553	0.49277
	A2->YN (RF)	0.03945	0.15048	0.48781
	B0->YN (RF)	0.03559	0.14277	0.48419
	B1->YN (RF)	0.03265	0.13804	0.47858

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI32X2H7H	A0	0.00237	0.00240	0.00243
	A0	-0.00027	-0.00027	-0.00026
	A0	0.00026	0.00026	0.00026
	A0	-0.00016	-0.00013	-0.00011
	A1	0.00214	0.00217	0.00220
	A1	-0.00019	-0.00019	-0.00019
	A1	0.00026	0.00026	0.00026
	A1	-0.00011	-0.00007	-0.00005
	A2	0.00183	0.00190	0.00194
	A2	-0.00010	-0.00010	-0.00010
	A2	0.00026	0.00026	0.00026
	A2	-0.00013	-0.00009	-0.00005
	B0	0.00181	0.00185	0.00189
	B0	-0.00019	-0.00019	-0.00019
	B0	0.00009	0.00009	0.00009
	B0	-0.00020	-0.00015	-0.00011
	B1	0.00156	0.00161	0.00166
	B1	-0.00010	-0.00010	-0.00010
	B1	0.00009	0.00009	0.00009
	B1	-0.00017	-0.00012	-0.00006

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI32X2H7H	A0	-0.00014	-0.00012	-0.00011
	A0	0.00035	0.00035	0.00036
	A0	-0.00025	-0.00025	-0.00025
	A0	0.00235	0.00239	0.00241
	A1	-0.00015	-0.00012	-0.00010
	A1	0.00027	0.00028	0.00028
	A1	-0.00025	-0.00025	-0.00025
	A1	0.00213	0.00216	0.00218
	A2	-0.00016	-0.00011	-0.00008
	A2	0.00019	0.00019	0.00019
	A2	-0.00025	-0.00025	-0.00025
	A2	0.00192	0.00197	0.00200
	B0	-0.00017	-0.00014	-0.00011
	B0	0.00035	0.00035	0.00036
	B0	-0.00009	-0.00009	-0.00009
	B0	0.00165	0.00171	0.00175
	B1	-0.00017	-0.00012	-0.00007
	B1	0.00019	0.00019	0.00033
	B1	-0.00009	-0.00009	-0.00007
	B1	0.00143	0.00150	0.00154

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI32X2H7H	**(A1 * A2 * B1 * !YN)**	-0.00016	-0.00015	-0.00012
	(A1 * A2 * B1 * !YN)	-0.00004	-0.00003	-0.00003
	(A1 * A2 * B1 * !YN)	0.00000	0.00001	0.00001
	(A1 * A2 * B1 * !YN)	0.00034	0.00035	0.00035
	(A1 * A2 * B0 * !B1 * !YN)	-0.00016	-0.00015	-0.00012
	(A1 * A2 * B0 * !B1 * !YN)	-0.00004	-0.00003	-0.00003
	(A1 * A2 * B0 * !B1 * !YN)	0.00001	0.00001	0.00001
	(A1 * A2 * B0 * !B1 * !YN)	0.00034	0.00035	0.00035
	(A1 * !B0 * !B1 * YN)	-0.00016	-0.00015	-0.00013
	(A1 * !B0 * !B1 * YN)	-0.00004	-0.00003	-0.00003
	(A1 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * YN)	0.00034	0.00035	0.00035
	(A1 * !A2 * B1 * !YN)	-0.00016	-0.00015	-0.00013
	(A1 * !A2 * B1 * !YN)	-0.00003	-0.00003	-0.00003
	(A1 * !A2 * B1 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B1 * !YN)	0.00034	0.00035	0.00035
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00016	-0.00015	-0.00013
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00004	-0.00003	-0.00003
	(A1 * !A2 * B0 * !B1 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * !B1 * !YN)	0.00034	0.00035	0.00035
	(!A1 * A2 * B1 * !YN)	-0.00015	-0.00014	-0.00011
	(!A1 * A2 * B1 * !YN)	-0.00004	-0.00004	-0.00003
	(!A1 * A2 * B1 * !YN)	0.00001	0.00001	0.00001
	(!A1 * A2 * B1 * !YN)	0.00034	0.00035	0.00035
	(!A1 * A2 * B0 * !B1 * !YN)	-0.00015	-0.00014	-0.00011
	(!A1 * A2 * B0 * !B1 * !YN)	-0.00004	-0.00003	-0.00003
	(!A1 * A2 * B0 * !B1 * !YN)	0.00001	0.00001	0.00001
	(!A1 * A2 * B0 * !B1 * !YN)	0.00034	0.00034	0.00035
	(!A1 * A2 * !B0 * !B1 * YN)	-0.00015	-0.00014	-0.00011
	(!A1 * A2 * !B0 * !B1 * YN)	-0.00004	-0.00003	-0.00003
	(!A1 * A2 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * !B1 * YN)	0.00034	0.00034	0.00035
	(!A1 * !A2 * !B0 * !B1 * YN)	-0.00020	-0.00020	-0.00020
	(!A1 * !A2 * !B0 * !B1 * YN)	-0.00002	-0.00001	-0.00001
	(!A1 * !A2 * !B0 * !B1 * YN)	0.00002	0.00002	0.00002
	(!A1 * !A2 * !B0 * !B1 * YN)	0.00029	0.00030	0.00030

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI32X2H7H	**(A1 * A2 * B1 * !YN)**	0.00016	0.00016	0.00016
	(A1 * A2 * B1 * !YN)	0.00003	0.00003	0.00004
	(A1 * A2 * B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * A2 * B1 * !YN)	-0.00035	-0.00034	-0.00034
	(A1 * A2 * B0 * !B1 * !YN)	0.00016	0.00016	0.00016
	(A1 * A2 * B0 * !B1 * !YN)	0.00003	0.00003	0.00004
	(A1 * A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B0 * !B1 * !YN)	-0.00035	-0.00034	-0.00034
	(A1 * !B0 * !B1 * YN)	0.00016	0.00016	0.00016
	(A1 * !B0 * !B1 * YN)	0.00003	0.00003	0.00004
	(A1 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * YN)	-0.00035	-0.00034	-0.00034
	(A1 * !A2 * B1 * !YN)	0.00016	0.00016	0.00016
	(A1 * !A2 * B1 * !YN)	0.00003	0.00003	0.00003
	(A1 * !A2 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B1 * !YN)	-0.00035	-0.00034	-0.00034
	(A1 * !A2 * B0 * !B1 * !YN)	0.00016	0.00016	0.00016
	(A1 * !A2 * B0 * !B1 * !YN)	0.00003	0.00003	0.00004
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00035	-0.00034	-0.00034
	(!A1 * A2 * B1 * !YN)	0.00015	0.00015	0.00015
	(!A1 * A2 * B1 * !YN)	0.00003	0.00004	0.00004
	(!A1 * A2 * B1 * !YN)	-0.00001	-0.00001	-0.00000
	(!A1 * A2 * B1 * !YN)	-0.00035	-0.00034	-0.00034
	(!A1 * A2 * B0 * !B1 * !YN)	0.00015	0.00015	0.00015
	(!A1 * A2 * B0 * !B1 * !YN)	0.00003	0.00003	0.00004
	(!A1 * A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * B0 * !B1 * !YN)	-0.00035	-0.00034	-0.00034
	(!A1 * A2 * !B0 * !B1 * YN)	0.00015	0.00015	0.00015
	(!A1 * A2 * !B0 * !B1 * YN)	0.00003	0.00003	0.00004
	(!A1 * A2 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * !B1 * YN)	-0.00035	-0.00034	-0.00034
	(!A1 * !A2 * !B0 * !B1 * YN)	0.00020	0.00020	0.00020
	(!A1 * !A2 * !B0 * !B1 * YN)	0.00001	0.00002	0.00002
	(!A1 * !A2 * !B0 * !B1 * YN)	-0.00002	-0.00002	-0.00002
	(!A1 * !A2 * !B0 * !B1 * YN)	-0.00030	-0.00028	-0.00025

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI32X2H7H	**(A0 * A2 * B1 * !YN)**	-0.00000	-0.00000	0.00000
	(A0 * A2 * B1 * !YN)	-0.00010	-0.00010	-0.00010
	(A0 * A2 * B1 * !YN)	0.00001	0.00001	0.00001
	(A0 * A2 * B1 * !YN)	0.00031	0.00031	0.00031
	(A0 * A2 * B0 * !B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B0 * !B1 * !YN)	-0.00010	-0.00010	-0.00010
	(A0 * A2 * B0 * !B1 * !YN)	0.00001	0.00001	0.00001
	(A0 * A2 * B0 * !B1 * !YN)	0.00031	0.00031	0.00031
	(A0 * A2 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * !B0 * !B1 * YN)	-0.00010	-0.00010	-0.00010
	(A0 * A2 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(A0 * A2 * !B0 * !B1 * YN)	0.00031	0.00031	0.00031
	(A0 * !A2 * B1 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * !A2 * B1 * !YN)	-0.00008	-0.00008	-0.00008
	(A0 * !A2 * B1 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A2 * B1 * !YN)	0.00031	0.00031	0.00031
	(A0 * !A2 * B0 * !B1 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !B1 * !YN)	-0.00008	-0.00008	-0.00008
	(A0 * !A2 * B0 * !B1 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A2 * B0 * !B1 * !YN)	0.00031	0.00031	0.00031
	(A0 * !A2 * !B0 * !B1 * YN)	-0.00016	-0.00015	-0.00012
	(A0 * !A2 * !B0 * !B1 * YN)	-0.00004	-0.00004	-0.00003
	(A0 * !A2 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B0 * !B1 * YN)	0.00031	0.00031	0.00031
	(!A0 * A2 * B1 * !YN)	-0.00017	-0.00015	-0.00013
	(!A0 * A2 * B1 * !YN)	-0.00004	-0.00003	-0.00003
	(!A0 * A2 * B1 * !YN)	0.00000	0.00001	0.00001
	(!A0 * A2 * B1 * !YN)	0.00031	0.00031	0.00032
	(!A0 * A2 * B0 * !B1 * !YN)	-0.00017	-0.00015	-0.00012
	(!A0 * A2 * B0 * !B1 * !YN)	-0.00004	-0.00003	-0.00003
	(!A0 * A2 * B0 * !B1 * !YN)	0.00001	0.00001	0.00001
	(!A0 * A2 * B0 * !B1 * !YN)	0.00031	0.00031	0.00031
	(!A0 * A2 * !B0 * !B1 * YN)	-0.00017	-0.00015	-0.00013
	(!A0 * A2 * !B0 * !B1 * YN)	-0.00004	-0.00003	-0.00003
	(!A0 * A2 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(!A0 * A2 * !B0 * !B1 * YN)	0.00030	0.00031	0.00031
	(!A0 * !A2 * !B0 * !B1 * YN)	-0.00021	-0.00021	-0.00020
	(!A0 * !A2 * !B0 * !B1 * YN)	-0.00002	-0.00001	-0.00001
	(!A0 * !A2 * !B0 * !B1 * YN)	0.00002	0.00003	0.00003
	(!A0 * !A2 * !B0 * !B1 * YN)	0.00024	0.00024	0.00025

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI32X2H7H	**(A0 * A2 * B1 * !YN)**	0.00000	0.00000	0.00000
	(A0 * A2 * B1 * !YN)	0.00010	0.00010	0.00010
	(A0 * A2 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * A2 * B1 * !YN)	-0.00031	-0.00031	-0.00031
	(A0 * A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * !B1 * !YN)	0.00010	0.00010	0.00010
	(A0 * A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * A2 * B0 * !B1 * !YN)	-0.00031	-0.00031	-0.00031
	(A0 * A2 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(A0 * A2 * !B0 * !B1 * YN)	0.00010	0.00010	0.00010
	(A0 * A2 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * A2 * !B0 * !B1 * YN)	-0.00031	-0.00031	-0.00031
	(A0 * !A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B1 * !YN)	0.00008	0.00009	0.00009
	(A0 * !A2 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * B1 * !YN)	-0.00031	-0.00031	-0.00031
	(A0 * !A2 * B0 * !B1 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * !A2 * B0 * !B1 * !YN)	0.00008	0.00009	0.00009
	(A0 * !A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * B0 * !B1 * !YN)	-0.00031	-0.00031	-0.00031
	(A0 * !A2 * !B0 * !B1 * YN)	0.00016	0.00016	0.00016
	(A0 * !A2 * !B0 * !B1 * YN)	0.00004	0.00004	0.00004
	(A0 * !A2 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B0 * !B1 * YN)	-0.00031	-0.00031	-0.00031
	(!A0 * A2 * B1 * !YN)	0.00017	0.00017	0.00017
	(!A0 * A2 * B1 * !YN)	0.00003	0.00003	0.00004
	(!A0 * A2 * B1 * !YN)	-0.00001	-0.00001	-0.00000
	(!A0 * A2 * B1 * !YN)	-0.00031	-0.00031	-0.00030
	(!A0 * A2 * B0 * !B1 * !YN)	0.00017	0.00017	0.00017
	(!A0 * A2 * B0 * !B1 * !YN)	0.00003	0.00003	0.00004
	(!A0 * A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B0 * !B1 * !YN)	-0.00031	-0.00031	-0.00030
	(!A0 * A2 * !B0 * !B1 * YN)	0.00017	0.00017	0.00017
	(!A0 * A2 * !B0 * !B1 * YN)	0.00003	0.00003	0.00004
	(!A0 * A2 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * !B0 * !B1 * YN)	-0.00031	-0.00031	-0.00030
	(!A0 * !A2 * !B0 * !B1 * YN)	0.00021	0.00021	0.00021
	(!A0 * !A2 * !B0 * !B1 * YN)	0.00001	0.00002	0.00002
	(!A0 * !A2 * !B0 * !B1 * YN)	-0.00003	-0.00003	-0.00002
	(!A0 * !A2 * !B0 * !B1 * YN)	-0.00025	-0.00022	-0.00019

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X2H7H	(A1 * B1 * !YN)	-0.00000	-0.00000	0.00000
	(A1 * B1 * !YN)	-0.00006	-0.00006	-0.00006
	(A1 * B1 * !YN)	0.00001	0.00001	0.00001
	(A1 * B1 * !YN)	0.00040	0.00040	0.00040
	(A1 * B0 * !B1 * !YN)	-0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * !YN)	-0.00006	-0.00006	-0.00005
	(A1 * B0 * !B1 * !YN)	0.00001	0.00001	0.00001
	(A1 * B0 * !B1 * !YN)	0.00039	0.00040	0.00040
	(A1 * !B0 * !B1 * YN)	-0.00019	-0.00017	-0.00015
	(A1 * !B0 * !B1 * YN)	-0.00004	-0.00004	-0.00003
	(A1 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * YN)	0.00030	0.00030	0.00030
	(A0 * !A1 * B1 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * !YN)	-0.00005	-0.00005	-0.00005
	(A0 * !A1 * B1 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * B1 * !YN)	0.00039	0.00040	0.00040
	(A0 * !A1 * B0 * !B1 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * !YN)	-0.00005	-0.00005	-0.00005
	(A0 * !A1 * B0 * !B1 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * B0 * !B1 * !YN)	0.00040	0.00040	0.00040
	(A0 * !A1 * !B0 * !B1 * YN)	-0.00018	-0.00016	-0.00013
	(A0 * !A1 * !B0 * !B1 * YN)	-0.00005	-0.00004	-0.00003
	(A0 * !A1 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B0 * !B1 * YN)	0.00030	0.00030	0.00030
	(!A0 * !A1 * !B0 * !B1 * YN)	-0.00024	-0.00024	-0.00024
	(!A0 * !A1 * !B0 * !B1 * YN)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * !B0 * !B1 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !B0 * !B1 * YN)	0.00024	0.00024	0.00024

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X2H7H	(A1 * B1 * !YN)	-0.00000	0.00000	0.00000
	(A1 * B1 * !YN)	0.00006	0.00006	0.00006
	(A1 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * !YN)	-0.00040	-0.00040	-0.00040
	(A1 * B0 * !B1 * !YN)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !B1 * !YN)	0.00006	0.00006	0.00006
	(A1 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !B1 * !YN)	-0.00040	-0.00040	-0.00039
	(A1 * !B0 * !B1 * YN)	0.00019	0.00019	0.00019
	(A1 * !B0 * !B1 * YN)	0.00003	0.00004	0.00004
	(A1 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * YN)	-0.00030	-0.00030	-0.00029
	(A0 * !A1 * B1 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * B1 * !YN)	0.00005	0.00006	0.00006
	(A0 * !A1 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B1 * !YN)	-0.00040	-0.00040	-0.00039
	(A0 * !A1 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * !YN)	0.00005	0.00006	0.00006
	(A0 * !A1 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B0 * !B1 * !YN)	-0.00040	-0.00040	-0.00039
	(A0 * !A1 * !B0 * !B1 * YN)	0.00018	0.00018	0.00018
	(A0 * !A1 * !B0 * !B1 * YN)	0.00003	0.00004	0.00005
	(A0 * !A1 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B0 * !B1 * YN)	-0.00030	-0.00030	-0.00030
	(!A0 * !A1 * !B0 * !B1 * YN)	0.00024	0.00024	0.00024
	(!A0 * !A1 * !B0 * !B1 * YN)	0.00001	0.00002	0.00002
	(!A0 * !A1 * !B0 * !B1 * YN)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * !B0 * !B1 * YN)	-0.00024	-0.00022	-0.00019

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X2H7H	(A2 * B1 * !YN)	-0.00016	-0.00015	-0.00012
	(A2 * B1 * !YN)	-0.00004	-0.00003	-0.00003
	(A2 * B1 * !YN)	0.00001	0.00001	0.00001
	(A2 * B1 * !YN)	0.00037	0.00037	0.00037
	(A1 * !A2 * B1 * !YN)	-0.00016	-0.00015	-0.00012
	(A1 * !A2 * B1 * !YN)	-0.00004	-0.00003	-0.00003
	(A1 * !A2 * B1 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B1 * !YN)	0.00037	0.00037	0.00037
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00016	-0.00015	-0.00012
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00004	-0.00003	-0.00003
	(A0 * !A1 * !A2 * B1 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !A2 * B1 * !YN)	0.00037	0.00037	0.00037
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00029	-0.00027	-0.00025
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * B1 * YN)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !A2 * B1 * YN)	0.00009	0.00010	0.00010
	(!A0 * !A1 * !A2 * !B1 * YN)	-0.00032	-0.00032	-0.00031
	(!A0 * !A1 * !A2 * !B1 * YN)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * !A2 * !B1 * YN)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !A2 * !B1 * YN)	0.00009	0.00010	0.00010

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X2H7H	(A2 * B1 * !YN)	0.00016	0.00016	0.00016
	(A2 * B1 * !YN)	0.00003	0.00003	0.00004
	(A2 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A2 * B1 * !YN)	-0.00037	-0.00037	-0.00037
	(A1 * !A2 * B1 * !YN)	0.00016	0.00016	0.00016
	(A1 * !A2 * B1 * !YN)	0.00003	0.00003	0.00004
	(A1 * !A2 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B1 * !YN)	-0.00037	-0.00037	-0.00037
	(A0 * !A1 * !A2 * B1 * !YN)	0.00016	0.00016	0.00016
	(A0 * !A1 * !A2 * B1 * !YN)	0.00003	0.00003	0.00004
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00037	-0.00037	-0.00037
	(!A0 * !A1 * !A2 * B1 * YN)	0.00028	0.00028	0.00029
	(!A0 * !A1 * !A2 * B1 * YN)	0.00003	0.00003	0.00004
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00010	-0.00010	-0.00009
	(!A0 * !A1 * !A2 * !B1 * YN)	0.00032	0.00032	0.00032
	(!A0 * !A1 * !A2 * !B1 * YN)	0.00001	0.00002	0.00002
	(!A0 * !A1 * !A2 * !B1 * YN)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !A2 * !B1 * YN)	-0.00010	-0.00010	-0.00009

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X2H7H	(A2 * B0 * !YN)	-0.00000	0.00000	0.00000
	(A2 * B0 * !YN)	-0.00005	-0.00005	-0.00005
	(A2 * B0 * !YN)	0.00001	0.00001	0.00001
	(A2 * B0 * !YN)	0.00042	0.00043	0.00043
	(A1 * !A2 * B0 * !YN)	-0.00000	-0.00000	0.00000
	(A1 * !A2 * B0 * !YN)	-0.00005	-0.00005	-0.00005
	(A1 * !A2 * B0 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * !YN)	0.00042	0.00043	0.00043
	(A0 * !A1 * !A2 * B0 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * !YN)	-0.00005	-0.00005	-0.00005
	(A0 * !A1 * !A2 * B0 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !A2 * B0 * !YN)	0.00042	0.00043	0.00043
	(!A0 * !A1 * !A2 * B0 * YN)	-0.00032	-0.00030	-0.00028
	(!A0 * !A1 * !A2 * B0 * YN)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * B0 * YN)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !A2 * B0 * YN)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !A2 * !B0 * YN)	-0.00036	-0.00036	-0.00035
	(!A0 * !A1 * !A2 * !B0 * YN)	-0.00002	-0.00001	-0.00001
	(!A0 * !A1 * !A2 * !B0 * YN)	0.00004	0.00005	0.00005
	(!A0 * !A1 * !A2 * !B0 * YN)	0.00004	0.00004	0.00004

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X2H7H	(A2 * B0 * !YN)	-0.00000	-0.00000	0.00000
	(A2 * B0 * !YN)	0.00005	0.00006	0.00006
	(A2 * B0 * !YN)	-0.00001	-0.00001	-0.00001
	(A2 * B0 * !YN)	-0.00043	-0.00043	-0.00042
	(A1 * !A2 * B0 * !YN)	-0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !YN)	0.00005	0.00006	0.00006
	(A1 * !A2 * B0 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * !YN)	-0.00043	-0.00043	-0.00042
	(A0 * !A1 * !A2 * B0 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * !YN)	0.00005	0.00006	0.00006
	(A0 * !A1 * !A2 * B0 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !A2 * B0 * !YN)	-0.00043	-0.00043	-0.00042
	(!A0 * !A1 * !A2 * B0 * YN)	0.00032	0.00032	0.00032
	(!A0 * !A1 * !A2 * B0 * YN)	0.00003	0.00004	0.00004
	(!A0 * !A1 * !A2 * B0 * YN)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !A2 * B0 * YN)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !A2 * !B0 * YN)	0.00036	0.00036	0.00036
	(!A0 * !A1 * !A2 * !B0 * YN)	0.00001	0.00002	0.00002
	(!A0 * !A1 * !A2 * !B0 * YN)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !A2 * !B0 * YN)	-0.00004	-0.00004	-0.00004

OAI32X3H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI32 cell provides the logical inverted AND of two OR groups. The output (Y) is represented by the logic equation:

Truth Table

INPUT					OUTPUT
A0	A1	A2	B0	B1	YN
0	0	0	x	x	1
0	x	1	0	0	1
0	x	1	x	1	0
0	x	1	1	x	0
x	1	x	0	0	1
x	1	x	x	1	0
x	1	x	1	x	0
1	x	x	0	0	1
1	x	x	x	1	0
1	x	x	1	x	0

Footprint

Cell Name	Area
OAI32X3H7H	4.20000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	A1	A2	B0	B1	YN
OAI32X3H7H	0.00182	0.00188	0.00239	0.00191	0.00218	0.02653

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI32X3H7H	0.00000	0.03771	0.05967

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI32X3H7H	A0->YN (FR)	0.09680	0.26419	0.72449
	A1->YN (FR)	0.09263	0.26432	0.74692
	A2->YN (FR)	0.08992	0.25507	0.72707
	B0->YN (FR)	0.04370	0.17509	0.57581
	B1->YN (FR)	0.04120	0.16813	0.57289

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI32X3H7H	A0->YN (RF)	0.04680	0.16076	0.49596
	A1->YN (RF)	0.04429	0.15655	0.49114
	A2->YN (RF)	0.04336	0.15399	0.48863
	B0->YN (RF)	0.03750	0.14477	0.48543
	B1->YN (RF)	0.03483	0.14021	0.47970

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI32X3H7H	A0	0.00414	0.00420	0.00425
	A0	-0.00041	-0.00040	-0.00040
	A0	0.00039	0.00040	0.00040
	A0	-0.00018	-0.00012	-0.00007
	A1	0.00374	0.00380	0.00385
	A1	-0.00029	-0.00029	-0.00026
	A1	0.00039	0.00040	0.00040
	A1	-0.00008	-0.00003	0.00001
	A2	0.00339	0.00351	0.00361
	A2	-0.00016	-0.00015	0.00000
	A2	0.00039	0.00040	0.00040
	A2	-0.00021	-0.00012	0.00000
	B0	0.00323	0.00332	0.00340
	B0	-0.00030	-0.00028	-0.00028
	B0	0.00013	0.00014	0.00014
	B0	-0.00014	-0.00007	0.00001
	B1	0.00289	0.00297	0.00308
	B1	-0.00015	-0.00015	-0.00015
	B1	0.00013	0.00013	0.00014
	B1	-0.00015	-0.00006	0.00004

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI32X3H7H	A0	-0.00022	-0.00019	-0.00017
	A0	0.00053	0.00054	0.00054
	A0	-0.00038	-0.00038	-0.00038
	A0	0.00408	0.00412	0.00415
	A1	-0.00023	-0.00018	-0.00015
	A1	0.00041	0.00042	0.00043
	A1	-0.00038	-0.00038	-0.00038
	A1	0.00368	0.00373	0.00376
	A2	-0.00031	-0.00019	0.00039
	A2	0.00028	0.00028	0.00029
	A2	-0.00038	-0.00038	-0.00038
	A2	0.00348	0.00359	0.00366
	B0	-0.00027	-0.00021	-0.00016
	B0	0.00053	0.00054	0.00054
	B0	-0.00013	-0.00013	-0.00012
	B0	0.00289	0.00294	0.00300
	B1	-0.00030	-0.00021	-0.00013
	B1	0.00040	0.00040	0.00041
	B1	-0.00014	-0.00013	-0.00013
	B1	0.00258	0.00266	0.00274

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI32X3H7H	**(A1 * A2 * B1 * !YN)**	-0.00025	-0.00023	-0.00020
	(A1 * A2 * B1 * !YN)	-0.00006	-0.00005	-0.00005
	(A1 * A2 * B1 * !YN)	0.00001	0.00001	0.00001
	(A1 * A2 * B1 * !YN)	0.00064	0.00064	0.00064
	(A1 * A2 * B0 * !B1 * !YN)	-0.00025	-0.00023	-0.00020
	(A1 * A2 * B0 * !B1 * !YN)	-0.00006	-0.00005	-0.00005
	(A1 * A2 * B0 * !B1 * !YN)	0.00001	0.00001	0.00001
	(A1 * A2 * B0 * !B1 * !YN)	0.00063	0.00064	0.00064
	(A1 * !B0 * !B1 * YN)	-0.00025	-0.00023	-0.00020
	(A1 * !B0 * !B1 * YN)	-0.00005	-0.00005	-0.00005
	(A1 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * YN)	0.00063	0.00064	0.00064
	(A1 * !A2 * B1 * !YN)	-0.00025	-0.00023	-0.00019
	(A1 * !A2 * B1 * !YN)	-0.00005	-0.00005	-0.00005
	(A1 * !A2 * B1 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B1 * !YN)	0.00063	0.00064	0.00064
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00025	-0.00023	-0.00019
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00005	-0.00005	-0.00005
	(A1 * !A2 * B0 * !B1 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * !B1 * !YN)	0.00063	0.00064	0.00064
	(!A1 * A2 * B1 * !YN)	-0.00024	-0.00021	-0.00018
	(!A1 * A2 * B1 * !YN)	-0.00006	-0.00005	-0.00005
	(!A1 * A2 * B1 * !YN)	0.00001	0.00001	0.00001
	(!A1 * A2 * B1 * !YN)	0.00063	0.00064	0.00064
	(!A1 * A2 * B0 * !B1 * !YN)	-0.00024	-0.00021	-0.00018
	(!A1 * A2 * B0 * !B1 * !YN)	-0.00006	-0.00006	-0.00005
	(!A1 * A2 * B0 * !B1 * !YN)	0.00001	0.00001	0.00001
	(!A1 * A2 * B0 * !B1 * !YN)	0.00063	0.00064	0.00064
	(!A1 * A2 * !B0 * !B1 * YN)	-0.00024	-0.00021	-0.00018
	(!A1 * A2 * !B0 * !B1 * YN)	-0.00005	-0.00005	-0.00004
	(!A1 * A2 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * !B1 * YN)	0.00063	0.00064	0.00064
	(!A1 * !A2 * !B0 * !B1 * YN)	-0.00031	-0.00031	-0.00031
	(!A1 * !A2 * !B0 * !B1 * YN)	-0.00002	-0.00002	-0.00001
	(!A1 * !A2 * !B0 * !B1 * YN)	0.00004	0.00004	0.00004
	(!A1 * !A2 * !B0 * !B1 * YN)	0.00052	0.00053	0.00053

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI32X3H7H	**(A1 * A2 * B1 * !YN)**	0.00024	0.00025	0.00025
	(A1 * A2 * B1 * !YN)	0.00005	0.00006	0.00006
	(A1 * A2 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B1 * !YN)	-0.00064	-0.00064	-0.00063
	(A1 * A2 * B0 * !B1 * !YN)	0.00025	0.00025	0.00025
	(A1 * A2 * B0 * !B1 * !YN)	0.00005	0.00005	0.00006
	(A1 * A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B0 * !B1 * !YN)	-0.00064	-0.00064	-0.00063
	(A1 * !B0 * !B1 * YN)	0.00025	0.00025	0.00025
	(A1 * !B0 * !B1 * YN)	0.00005	0.00005	0.00005
	(A1 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * YN)	-0.00064	-0.00064	-0.00063
	(A1 * !A2 * B1 * !YN)	0.00025	0.00025	0.00025
	(A1 * !A2 * B1 * !YN)	0.00005	0.00005	0.00005
	(A1 * !A2 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B1 * !YN)	-0.00064	-0.00064	-0.00063
	(A1 * !A2 * B0 * !B1 * !YN)	0.00025	0.00025	0.00025
	(A1 * !A2 * B0 * !B1 * !YN)	0.00005	0.00005	0.00005
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00064	-0.00064	-0.00063
	(!A1 * A2 * B1 * !YN)	0.00024	0.00024	0.00024
	(!A1 * A2 * B1 * !YN)	0.00005	0.00005	0.00006
	(!A1 * A2 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * B1 * !YN)	-0.00064	-0.00064	-0.00063
	(!A1 * A2 * B0 * !B1 * !YN)	0.00023	0.00024	0.00024
	(!A1 * A2 * B0 * !B1 * !YN)	0.00005	0.00006	0.00006
	(!A1 * A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * B0 * !B1 * !YN)	-0.00064	-0.00064	-0.00063
	(!A1 * A2 * !B0 * !B1 * YN)	0.00024	0.00024	0.00024
	(!A1 * A2 * !B0 * !B1 * YN)	0.00004	0.00005	0.00005
	(!A1 * A2 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * !B1 * YN)	-0.00064	-0.00064	-0.00063
	(!A1 * !A2 * !B0 * !B1 * YN)	0.00031	0.00032	0.00032
	(!A1 * !A2 * !B0 * !B1 * YN)	0.00001	0.00002	0.00003
	(!A1 * !A2 * !B0 * !B1 * YN)	-0.00004	-0.00004	-0.00004
	(!A1 * !A2 * !B0 * !B1 * YN)	-0.00053	-0.00049	-0.00043

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI32X3H7H	**(A0 * A2 * B1 * !YN)**	-0.00000	-0.00000	0.00000
	(A0 * A2 * B1 * !YN)	-0.00016	-0.00015	-0.00015
	(A0 * A2 * B1 * !YN)	0.00001	0.00001	0.00001
	(A0 * A2 * B1 * !YN)	0.00054	0.00054	0.00054
	(A0 * A2 * B0 * !B1 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * A2 * B0 * !B1 * !YN)	-0.00016	-0.00015	-0.00015
	(A0 * A2 * B0 * !B1 * !YN)	0.00001	0.00001	0.00001
	(A0 * A2 * B0 * !B1 * !YN)	0.00054	0.00054	0.00054
	(A0 * A2 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * !B0 * !B1 * YN)	-0.00016	-0.00016	-0.00016
	(A0 * A2 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(A0 * A2 * !B0 * !B1 * YN)	0.00053	0.00053	0.00054
	(A0 * !A2 * B1 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A2 * B1 * !YN)	-0.00013	-0.00013	-0.00012
	(A0 * !A2 * B1 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A2 * B1 * !YN)	0.00053	0.00054	0.00054
	(A0 * !A2 * B0 * !B1 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !B1 * !YN)	-0.00013	-0.00013	-0.00012
	(A0 * !A2 * B0 * !B1 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A2 * B0 * !B1 * !YN)	0.00053	0.00054	0.00054
	(A0 * !A2 * !B0 * !B1 * YN)	-0.00025	-0.00023	-0.00019
	(A0 * !A2 * !B0 * !B1 * YN)	-0.00006	-0.00006	-0.00005
	(A0 * !A2 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B0 * !B1 * YN)	0.00053	0.00053	0.00054
	(!A0 * A2 * B1 * !YN)	-0.00026	-0.00023	-0.00019
	(!A0 * A2 * B1 * !YN)	-0.00006	-0.00005	-0.00005
	(!A0 * A2 * B1 * !YN)	0.00001	0.00001	0.00001
	(!A0 * A2 * B1 * !YN)	0.00053	0.00053	0.00054
	(!A0 * A2 * B0 * !B1 * !YN)	-0.00026	-0.00023	-0.00019
	(!A0 * A2 * B0 * !B1 * !YN)	-0.00006	-0.00005	-0.00005
	(!A0 * A2 * B0 * !B1 * !YN)	0.00001	0.00001	0.00001
	(!A0 * A2 * B0 * !B1 * !YN)	0.00053	0.00053	0.00054
	(!A0 * A2 * !B0 * !B1 * YN)	-0.00026	-0.00024	-0.00020
	(!A0 * A2 * !B0 * !B1 * YN)	-0.00006	-0.00005	-0.00005
	(!A0 * A2 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(!A0 * A2 * !B0 * !B1 * YN)	0.00052	0.00053	0.00053
	(!A0 * !A2 * !B0 * !B1 * YN)	-0.00032	-0.00032	-0.00032
	(!A0 * !A2 * !B0 * !B1 * YN)	-0.00003	-0.00002	-0.00002
	(!A0 * !A2 * !B0 * !B1 * YN)	0.00004	0.00004	0.00004
	(!A0 * !A2 * !B0 * !B1 * YN)	0.00042	0.00043	0.00043

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI32X3H7H	**(A0 * A2 * B1 * !YN)**	0.00000	0.00000	0.00000
	(A0 * A2 * B1 * !YN)	0.00015	0.00015	0.00016
	(A0 * A2 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * A2 * B1 * !YN)	-0.00054	-0.00053	-0.00053
	(A0 * A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * !B1 * !YN)	0.00015	0.00015	0.00016
	(A0 * A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * A2 * B0 * !B1 * !YN)	-0.00054	-0.00053	-0.00053
	(A0 * A2 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(A0 * A2 * !B0 * !B1 * YN)	0.00016	0.00016	0.00016
	(A0 * A2 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * A2 * !B0 * !B1 * YN)	-0.00054	-0.00053	-0.00053
	(A0 * !A2 * B1 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * !A2 * B1 * !YN)	0.00013	0.00013	0.00013
	(A0 * !A2 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * B1 * !YN)	-0.00054	-0.00053	-0.00053
	(A0 * !A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !B1 * !YN)	0.00013	0.00013	0.00013
	(A0 * !A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * B0 * !B1 * !YN)	-0.00054	-0.00053	-0.00053
	(A0 * !A2 * !B0 * !B1 * YN)	0.00025	0.00025	0.00025
	(A0 * !A2 * !B0 * !B1 * YN)	0.00006	0.00006	0.00006
	(A0 * !A2 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B0 * !B1 * YN)	-0.00054	-0.00053	-0.00053
	(!A0 * A2 * B1 * !YN)	0.00026	0.00026	0.00026
	(!A0 * A2 * B1 * !YN)	0.00005	0.00005	0.00006
	(!A0 * A2 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B1 * !YN)	-0.00053	-0.00053	-0.00052
	(!A0 * A2 * B0 * !B1 * !YN)	0.00026	0.00026	0.00026
	(!A0 * A2 * B0 * !B1 * !YN)	0.00005	0.00005	0.00006
	(!A0 * A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B0 * !B1 * !YN)	-0.00053	-0.00053	-0.00052
	(!A0 * A2 * !B0 * !B1 * YN)	0.00026	0.00026	0.00026
	(!A0 * A2 * !B0 * !B1 * YN)	0.00005	0.00006	0.00006
	(!A0 * A2 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * !B0 * !B1 * YN)	-0.00053	-0.00053	-0.00052
	(!A0 * !A2 * !B0 * !B1 * YN)	0.00032	0.00033	0.00033
	(!A0 * !A2 * !B0 * !B1 * YN)	0.00002	0.00003	0.00003
	(!A0 * !A2 * !B0 * !B1 * YN)	-0.00004	-0.00004	-0.00004
	(!A0 * !A2 * !B0 * !B1 * YN)	-0.00043	-0.00040	-0.00035

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X3H7H	(A1 * B1 * !YN)	-0.00000	0.00000	0.00000
	(A1 * B1 * !YN)	-0.00009	-0.00009	-0.00009
	(A1 * B1 * !YN)	0.00001	0.00001	0.00001
	(A1 * B1 * !YN)	0.00085	0.00086	0.00086
	(A1 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * !YN)	-0.00009	-0.00009	-0.00008
	(A1 * B0 * !B1 * !YN)	0.00001	0.00001	0.00001
	(A1 * B0 * !B1 * !YN)	0.00085	0.00086	0.00086
	(A1 * !B0 * !B1 * YN)	-0.00044	-0.00041	-0.00037
	(A1 * !B0 * !B1 * YN)	-0.00006	-0.00006	-0.00005
	(A1 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * YN)	0.00056	0.00056	0.00056
	(A0 * !A1 * B1 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * !YN)	-0.00009	-0.00008	-0.00008
	(A0 * !A1 * B1 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * B1 * !YN)	0.00085	0.00086	0.00086
	(A0 * !A1 * B0 * !B1 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * !YN)	-0.00008	-0.00008	-0.00008
	(A0 * !A1 * B0 * !B1 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * B0 * !B1 * !YN)	0.00085	0.00086	0.00086
	(A0 * !A1 * !B0 * !B1 * YN)	-0.00043	-0.00039	-0.00034
	(A0 * !A1 * !B0 * !B1 * YN)	-0.00007	-0.00006	-0.00006
	(A0 * !A1 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B0 * !B1 * YN)	0.00055	0.00056	0.00056
	(!A0 * !A1 * !B0 * !B1 * YN)	-0.00052	-0.00051	-0.00051
	(!A0 * !A1 * !B0 * !B1 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !B0 * !B1 * YN)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !B0 * !B1 * YN)	0.00045	0.00046	0.00046

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X3H7H	(A1 * B1 * !YN)	-0.00000	-0.00000	0.00000
	(A1 * B1 * !YN)	0.00009	0.00009	0.00009
	(A1 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * !YN)	-0.00086	-0.00086	-0.00085
	(A1 * B0 * !B1 * !YN)	-0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * !YN)	0.00009	0.00009	0.00009
	(A1 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !B1 * !YN)	-0.00086	-0.00086	-0.00085
	(A1 * !B0 * !B1 * YN)	0.00044	0.00044	0.00044
	(A1 * !B0 * !B1 * YN)	0.00006	0.00006	0.00006
	(A1 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * YN)	-0.00056	-0.00056	-0.00056
	(A0 * !A1 * B1 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * !YN)	0.00009	0.00009	0.00009
	(A0 * !A1 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B1 * !YN)	-0.00086	-0.00086	-0.00085
	(A0 * !A1 * B0 * !B1 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * !YN)	0.00009	0.00009	0.00009
	(A0 * !A1 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B0 * !B1 * !YN)	-0.00086	-0.00086	-0.00085
	(A0 * !A1 * !B0 * !B1 * YN)	0.00042	0.00043	0.00043
	(A0 * !A1 * !B0 * !B1 * YN)	0.00006	0.00006	0.00007
	(A0 * !A1 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B0 * !B1 * YN)	-0.00056	-0.00056	-0.00055
	(!A0 * !A1 * !B0 * !B1 * YN)	0.00051	0.00051	0.00052
	(!A0 * !A1 * !B0 * !B1 * YN)	0.00002	0.00003	0.00003
	(!A0 * !A1 * !B0 * !B1 * YN)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !B0 * !B1 * YN)	-0.00046	-0.00043	-0.00038

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X3H7H	(A2 * B1 * !YN)	-0.00025	-0.00023	-0.00019
	(A2 * B1 * !YN)	-0.00005	-0.00005	-0.00005
	(A2 * B1 * !YN)	0.00001	0.00001	0.00001
	(A2 * B1 * !YN)	0.00061	0.00061	0.00061
	(A1 * !A2 * B1 * !YN)	-0.00025	-0.00023	-0.00020
	(A1 * !A2 * B1 * !YN)	-0.00005	-0.00005	-0.00005
	(A1 * !A2 * B1 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B1 * !YN)	0.00061	0.00061	0.00062
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00025	-0.00023	-0.00019
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00005	-0.00005	-0.00005
	(A0 * !A1 * !A2 * B1 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !A2 * B1 * !YN)	0.00061	0.00061	0.00061
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00049	-0.00047	-0.00043
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00006	-0.00006	-0.00005
	(!A0 * !A1 * !A2 * B1 * YN)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !A2 * B1 * YN)	0.00013	0.00013	0.00014
	(!A0 * !A1 * !A2 * !B1 * YN)	-0.00054	-0.00054	-0.00053
	(!A0 * !A1 * !A2 * !B1 * YN)	-0.00003	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * !B1 * YN)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !A2 * !B1 * YN)	0.00013	0.00013	0.00014

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X3H7H	(A2 * B1 * !YN)	0.00025	0.00025	0.00025
	(A2 * B1 * !YN)	0.00005	0.00005	0.00005
	(A2 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A2 * B1 * !YN)	-0.00061	-0.00061	-0.00060
	(A1 * !A2 * B1 * !YN)	0.00025	0.00025	0.00025
	(A1 * !A2 * B1 * !YN)	0.00005	0.00005	0.00005
	(A1 * !A2 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B1 * !YN)	-0.00061	-0.00060	-0.00060
	(A0 * !A1 * !A2 * B1 * !YN)	0.00025	0.00025	0.00025
	(A0 * !A1 * !A2 * B1 * !YN)	0.00005	0.00005	0.00005
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00061	-0.00061	-0.00060
	(!A0 * !A1 * !A2 * B1 * YN)	0.00049	0.00049	0.00049
	(!A0 * !A1 * !A2 * B1 * YN)	0.00005	0.00006	0.00006
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00013	-0.00013	-0.00013
	(!A0 * !A1 * !A2 * !B1 * YN)	0.00054	0.00054	0.00055
	(!A0 * !A1 * !A2 * !B1 * YN)	0.00002	0.00003	0.00003
	(!A0 * !A1 * !A2 * !B1 * YN)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !A2 * !B1 * YN)	-0.00013	-0.00013	-0.00013

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X3H7H	(A2 * B0 * !YN)	-0.00000	-0.00000	0.00000
	(A2 * B0 * !YN)	-0.00009	-0.00009	-0.00009
	(A2 * B0 * !YN)	0.00001	0.00001	0.00001
	(A2 * B0 * !YN)	0.00076	0.00076	0.00077
	(A1 * !A2 * B0 * !YN)	-0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !YN)	-0.00009	-0.00009	-0.00008
	(A1 * !A2 * B0 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * !YN)	0.00076	0.00076	0.00077
	(A0 * !A1 * !A2 * B0 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * !YN)	-0.00009	-0.00009	-0.00008
	(A0 * !A1 * !A2 * B0 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !A2 * B0 * !YN)	0.00076	0.00076	0.00077
	(!A0 * !A1 * !A2 * B0 * YN)	-0.00058	-0.00055	-0.00052
	(!A0 * !A1 * !A2 * B0 * YN)	-0.00006	-0.00006	-0.00005
	(!A0 * !A1 * !A2 * B0 * YN)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !A2 * B0 * YN)	0.00009	0.00009	0.00009
	(!A0 * !A1 * !A2 * !B0 * YN)	-0.00065	-0.00064	-0.00064
	(!A0 * !A1 * !A2 * !B0 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * !B0 * YN)	0.00006	0.00006	0.00007
	(!A0 * !A1 * !A2 * !B0 * YN)	0.00009	0.00009	0.00010

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X3H7H	(A2 * B0 * !YN)	-0.00000	0.00000	0.00000
	(A2 * B0 * !YN)	0.00009	0.00009	0.00009
	(A2 * B0 * !YN)	-0.00001	-0.00001	-0.00001
	(A2 * B0 * !YN)	-0.00077	-0.00076	-0.00076
	(A1 * !A2 * B0 * !YN)	-0.00000	-0.00000	0.00000
	(A1 * !A2 * B0 * !YN)	0.00009	0.00009	0.00009
	(A1 * !A2 * B0 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * !YN)	-0.00077	-0.00076	-0.00075
	(A0 * !A1 * !A2 * B0 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * !YN)	0.00009	0.00009	0.00009
	(A0 * !A1 * !A2 * B0 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !A2 * B0 * !YN)	-0.00077	-0.00076	-0.00075
	(!A0 * !A1 * !A2 * B0 * YN)	0.00058	0.00058	0.00058
	(!A0 * !A1 * !A2 * B0 * YN)	0.00005	0.00006	0.00006
	(!A0 * !A1 * !A2 * B0 * YN)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !A2 * B0 * YN)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * !A2 * !B0 * YN)	0.00064	0.00064	0.00065
	(!A0 * !A1 * !A2 * !B0 * YN)	0.00002	0.00003	0.00003
	(!A0 * !A1 * !A2 * !B0 * YN)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !A2 * !B0 * YN)	-0.00009	-0.00009	-0.00009

OAI32X4H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI32 cell provides the logical inverted AND of two OR groups. The output (Y) is represented by the logic equation:

Truth Table

INPUT					OUTPUT
A0	A1	A2	B0	B1	YN
0	0	0	x	x	1
0	x	1	0	0	1
0	x	1	x	1	0
0	x	1	1	x	0
x	1	x	0	0	1
x	1	x	x	1	0
x	1	x	1	x	0
1	x	x	0	0	1
1	x	x	x	1	0
1	x	x	1	x	0

Footprint

Cell Name	Area
OAI32X4H7H	8.12000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	A1	A2	B0	B1	YN
OAI32X4H7H	0.00298	0.00295	0.00316	0.00324	0.00361	0.03609

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI32X4H7H	0.00000	0.04702	0.06585

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI32X4H7H	A0->YN (FR)	0.11017	0.27664	0.72813
	A1->YN (FR)	0.10596	0.27494	0.74768
	A2->YN (FR)	0.09404	0.25648	0.71889
	B0->YN (FR)	0.04555	0.17440	0.56727
	B1->YN (FR)	0.04081	0.16387	0.56052

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI32X4H7H	A0->YN (RF)	0.04996	0.15918	0.47508
	A1->YN (RF)	0.04723	0.15457	0.46940
	A2->YN (RF)	0.04321	0.14860	0.46295
	B0->YN (RF)	0.03820	0.14217	0.46981
	B1->YN (RF)	0.03392	0.13586	0.46383

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI32X4H7H	A0	0.00701	0.00712	0.00721
	A0	-0.00059	-0.00054	-0.00048
	A0	0.00055	0.00055	0.00055
	A0	-0.00014	-0.00004	0.00004
	A1	0.00625	0.00636	0.00645
	A1	-0.00039	-0.00038	-0.00032
	A1	0.00054	0.00055	0.00055
	A1	-0.00012	-0.00003	0.00005
	A2	0.00532	0.00546	0.00559
	A2	-0.00020	-0.00020	-0.00019
	A2	0.00054	0.00055	0.00055
	A2	-0.00031	-0.00020	-0.00008
	B0	0.00538	0.00549	0.00562
	B0	-0.00038	-0.00038	-0.00037
	B0	0.00012	0.00019	0.00028
	B0	-0.00024	-0.00011	0.00001
	B1	0.00467	0.00481	0.00497
	B1	-0.00021	-0.00020	-0.00017
	B1	0.00018	0.00019	0.00021
	B1	-0.00031	-0.00015	0.00000

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI32X4H7H	A0	-0.00031	-0.00023	-0.00014
	A0	0.00070	0.00072	0.00072
	A0	-0.00053	-0.00052	-0.00052
	A0	0.00659	0.00670	0.00677
	A1	-0.00033	-0.00023	-0.00014
	A1	0.00052	0.00055	0.00056
	A1	-0.00053	-0.00052	-0.00052
	A1	0.00601	0.00612	0.00618
	A2	-0.00025	-0.00011	-0.00002
	A2	0.00037	0.00038	0.00044
	A2	-0.00052	-0.00052	-0.00052
	A2	0.00553	0.00566	0.00576
	B0	-0.00029	-0.00019	-0.00011
	B0	0.00067	0.00071	0.00072
	B0	-0.00019	-0.00018	-0.00012
	B0	0.00464	0.00478	0.00489
	B1	-0.00041	-0.00026	-0.00014
	B1	0.00053	0.00054	0.00054
	B1	-0.00019	-0.00018	-0.00013
	B1	0.00409	0.00424	0.00436

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI32X4H7H	**(A1 * A2 * B1 * !YN)**	-0.00043	-0.00037	-0.00029
	(A1 * A2 * B1 * !YN)	-0.00009	-0.00009	-0.00009
	(A1 * A2 * B1 * !YN)	0.00001	0.00002	0.00002
	(A1 * A2 * B1 * !YN)	0.00106	0.00107	0.00108
	(A1 * A2 * B0 * !B1 * !YN)	-0.00043	-0.00037	-0.00029
	(A1 * A2 * B0 * !B1 * !YN)	-0.00009	-0.00009	-0.00009
	(A1 * A2 * B0 * !B1 * !YN)	0.00001	0.00001	0.00002
	(A1 * A2 * B0 * !B1 * !YN)	0.00106	0.00107	0.00107
	(A1 * !B0 * !B1 * YN)	-0.00043	-0.00038	-0.00030
	(A1 * !B0 * !B1 * YN)	-0.00009	-0.00009	-0.00009
	(A1 * !B0 * !B1 * YN)	0.00001	0.00002	0.00002
	(A1 * !B0 * !B1 * YN)	0.00106	0.00106	0.00107
	(A1 * !A2 * B1 * !YN)	-0.00043	-0.00037	-0.00029
	(A1 * !A2 * B1 * !YN)	-0.00009	-0.00009	-0.00008
	(A1 * !A2 * B1 * !YN)	0.00001	0.00001	0.00002
	(A1 * !A2 * B1 * !YN)	0.00106	0.00107	0.00108
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00043	-0.00037	-0.00029
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00009	-0.00009	-0.00008
	(A1 * !A2 * B0 * !B1 * !YN)	0.00001	0.00001	0.00002
	(A1 * !A2 * B0 * !B1 * !YN)	0.00106	0.00107	0.00108
	(!A1 * A2 * B1 * !YN)	-0.00040	-0.00034	-0.00026
	(!A1 * A2 * B1 * !YN)	-0.00009	-0.00009	-0.00008
	(!A1 * A2 * B1 * !YN)	0.00001	0.00001	0.00002
	(!A1 * A2 * B1 * !YN)	0.00107	0.00108	0.00109
	(!A1 * A2 * B0 * !B1 * !YN)	-0.00040	-0.00034	-0.00026
	(!A1 * A2 * B0 * !B1 * !YN)	-0.00009	-0.00009	-0.00008
	(!A1 * A2 * B0 * !B1 * !YN)	0.00001	0.00002	0.00002
	(!A1 * A2 * B0 * !B1 * !YN)	0.00107	0.00108	0.00109
	(!A1 * A2 * !B0 * !B1 * YN)	-0.00041	-0.00036	-0.00027
	(!A1 * A2 * !B0 * !B1 * YN)	-0.00010	-0.00009	-0.00009
	(!A1 * A2 * !B0 * !B1 * YN)	0.00001	0.00001	0.00002
	(!A1 * A2 * !B0 * !B1 * YN)	0.00106	0.00106	0.00107
	(!A1 * !A2 * !B0 * !B1 * YN)	-0.00060	-0.00060	-0.00060
	(!A1 * !A2 * !B0 * !B1 * YN)	-0.00004	-0.00004	-0.00003
	(!A1 * !A2 * !B0 * !B1 * YN)	0.00006	0.00006	0.00006
	(!A1 * !A2 * !B0 * !B1 * YN)	0.00086	0.00086	0.00087

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI32X4H7H	**(A1 * A2 * B1 * !YN)**	0.00042	0.00042	0.00043
	(A1 * A2 * B1 * !YN)	0.00009	0.00009	0.00009
	(A1 * A2 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B1 * !YN)	-0.00106	-0.00106	-0.00105
	(A1 * A2 * B0 * !B1 * !YN)	0.00042	0.00042	0.00043
	(A1 * A2 * B0 * !B1 * !YN)	0.00009	0.00009	0.00009
	(A1 * A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B0 * !B1 * !YN)	-0.00107	-0.00106	-0.00106
	(A1 * !B0 * !B1 * YN)	0.00042	0.00043	0.00043
	(A1 * !B0 * !B1 * YN)	0.00009	0.00009	0.00009
	(A1 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * YN)	-0.00106	-0.00106	-0.00105
	(A1 * !A2 * B1 * !YN)	0.00042	0.00043	0.00043
	(A1 * !A2 * B1 * !YN)	0.00009	0.00009	0.00009
	(A1 * !A2 * B1 * !YN)	-0.00002	-0.00001	-0.00001
	(A1 * !A2 * B1 * !YN)	-0.00106	-0.00106	-0.00105
	(A1 * !A2 * B0 * !B1 * !YN)	0.00042	0.00043	0.00043
	(A1 * !A2 * B0 * !B1 * !YN)	0.00008	0.00009	0.00009
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00002	-0.00001	-0.00001
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00106	-0.00106	-0.00105
	(!A1 * A2 * B1 * !YN)	0.00040	0.00040	0.00040
	(!A1 * A2 * B1 * !YN)	0.00008	0.00009	0.00009
	(!A1 * A2 * B1 * !YN)	-0.00002	-0.00001	-0.00001
	(!A1 * A2 * B1 * !YN)	-0.00107	-0.00107	-0.00106
	(!A1 * A2 * B0 * !B1 * !YN)	0.00040	0.00040	0.00040
	(!A1 * A2 * B0 * !B1 * !YN)	0.00008	0.00009	0.00009
	(!A1 * A2 * B0 * !B1 * !YN)	-0.00002	-0.00001	-0.00001
	(!A1 * A2 * B0 * !B1 * !YN)	-0.00107	-0.00106	-0.00106
	(!A1 * A2 * !B0 * !B1 * YN)	0.00040	0.00041	0.00041
	(!A1 * A2 * !B0 * !B1 * YN)	0.00009	0.00009	0.00010
	(!A1 * A2 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * !B1 * YN)	-0.00106	-0.00106	-0.00105
	(!A1 * !A2 * !B0 * !B1 * YN)	0.00060	0.00060	0.00061
	(!A1 * !A2 * !B0 * !B1 * YN)	0.00003	0.00004	0.00005
	(!A1 * !A2 * !B0 * !B1 * YN)	-0.00006	-0.00006	-0.00005
	(!A1 * !A2 * !B0 * !B1 * YN)	-0.00086	-0.00081	-0.00072

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI32X4H7H	**(A0 * A2 * B1 * !YN)**	-0.00000	-0.00000	0.00000
	(A0 * A2 * B1 * !YN)	-0.00022	-0.00021	-0.00021
	(A0 * A2 * B1 * !YN)	0.00001	0.00001	0.00002
	(A0 * A2 * B1 * !YN)	0.00106	0.00107	0.00107
	(A0 * A2 * B0 * !B1 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * A2 * B0 * !B1 * !YN)	-0.00022	-0.00021	-0.00021
	(A0 * A2 * B0 * !B1 * !YN)	0.00001	0.00001	0.00001
	(A0 * A2 * B0 * !B1 * !YN)	0.00106	0.00107	0.00107
	(A0 * A2 * !B0 * !B1 * YN)	-0.00004	-0.00004	-0.00004
	(A0 * A2 * !B0 * !B1 * YN)	-0.00022	-0.00022	-0.00022
	(A0 * A2 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(A0 * A2 * !B0 * !B1 * YN)	0.00100	0.00102	0.00103
	(A0 * !A2 * B1 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A2 * B1 * !YN)	-0.00018	-0.00018	-0.00017
	(A0 * !A2 * B1 * !YN)	0.00001	0.00001	0.00002
	(A0 * !A2 * B1 * !YN)	0.00105	0.00106	0.00106
	(A0 * !A2 * B0 * !B1 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * !A2 * B0 * !B1 * !YN)	-0.00018	-0.00018	-0.00018
	(A0 * !A2 * B0 * !B1 * !YN)	0.00001	0.00002	0.00002
	(A0 * !A2 * B0 * !B1 * !YN)	0.00106	0.00106	0.00107
	(A0 * !A2 * !B0 * !B1 * YN)	-0.00054	-0.00048	-0.00041
	(A0 * !A2 * !B0 * !B1 * YN)	-0.00009	-0.00009	-0.00008
	(A0 * !A2 * !B0 * !B1 * YN)	0.00001	0.00001	0.00002
	(A0 * !A2 * !B0 * !B1 * YN)	0.00095	0.00096	0.00097
	(!A0 * A2 * B1 * !YN)	-0.00058	-0.00052	-0.00043
	(!A0 * A2 * B1 * !YN)	-0.00008	-0.00008	-0.00008
	(!A0 * A2 * B1 * !YN)	0.00001	0.00001	0.00001
	(!A0 * A2 * B1 * !YN)	0.00097	0.00098	0.00100
	(!A0 * A2 * B0 * !B1 * !YN)	-0.00057	-0.00052	-0.00043
	(!A0 * A2 * B0 * !B1 * !YN)	-0.00008	-0.00008	-0.00008
	(!A0 * A2 * B0 * !B1 * !YN)	0.00001	0.00002	0.00002
	(!A0 * A2 * B0 * !B1 * !YN)	0.00097	0.00098	0.00102
	(!A0 * A2 * !B0 * !B1 * YN)	-0.00058	-0.00053	-0.00046
	(!A0 * A2 * !B0 * !B1 * YN)	-0.00008	-0.00008	-0.00008
	(!A0 * A2 * !B0 * !B1 * YN)	0.00001	0.00002	0.00002
	(!A0 * A2 * !B0 * !B1 * YN)	0.00096	0.00096	0.00097
	(!A0 * !A2 * !B0 * !B1 * YN)	-0.00071	-0.00071	-0.00070
	(!A0 * !A2 * !B0 * !B1 * YN)	-0.00004	-0.00004	-0.00003
	(!A0 * !A2 * !B0 * !B1 * YN)	0.00005	0.00006	0.00006
	(!A0 * !A2 * !B0 * !B1 * YN)	0.00075	0.00076	0.00077

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI32X4H7H	**(A0 * A2 * B1 * !YN)**	0.00000	0.00000	0.00000
	(A0 * A2 * B1 * !YN)	0.00021	0.00021	0.00022
	(A0 * A2 * B1 * !YN)	-0.00002	-0.00001	-0.00001
	(A0 * A2 * B1 * !YN)	-0.00106	-0.00106	-0.00105
	(A0 * A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * !B1 * !YN)	0.00021	0.00021	0.00022
	(A0 * A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * A2 * B0 * !B1 * !YN)	-0.00107	-0.00106	-0.00104
	(A0 * A2 * !B0 * !B1 * YN)	0.00004	0.00004	0.00004
	(A0 * A2 * !B0 * !B1 * YN)	0.00022	0.00022	0.00022
	(A0 * A2 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * A2 * !B0 * !B1 * YN)	-0.00103	-0.00102	-0.00100
	(A0 * !A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B1 * !YN)	0.00018	0.00018	0.00019
	(A0 * !A2 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * B1 * !YN)	-0.00106	-0.00106	-0.00105
	(A0 * !A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !B1 * !YN)	0.00018	0.00018	0.00018
	(A0 * !A2 * B0 * !B1 * !YN)	-0.00002	-0.00001	-0.00001
	(A0 * !A2 * B0 * !B1 * !YN)	-0.00106	-0.00106	-0.00105
	(A0 * !A2 * !B0 * !B1 * YN)	0.00053	0.00054	0.00054
	(A0 * !A2 * !B0 * !B1 * YN)	0.00008	0.00009	0.00009
	(A0 * !A2 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B0 * !B1 * YN)	-0.00096	-0.00095	-0.00093
	(!A0 * A2 * B1 * !YN)	0.00057	0.00057	0.00058
	(!A0 * A2 * B1 * !YN)	0.00008	0.00008	0.00008
	(!A0 * A2 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B1 * !YN)	-0.00097	-0.00097	-0.00095
	(!A0 * A2 * B0 * !B1 * !YN)	0.00057	0.00057	0.00057
	(!A0 * A2 * B0 * !B1 * !YN)	0.00008	0.00008	0.00008
	(!A0 * A2 * B0 * !B1 * !YN)	-0.00002	-0.00001	-0.00001
	(!A0 * A2 * B0 * !B1 * !YN)	-0.00097	-0.00097	-0.00096
	(!A0 * A2 * !B0 * !B1 * YN)	0.00057	0.00057	0.00058
	(!A0 * A2 * !B0 * !B1 * YN)	0.00008	0.00008	0.00008
	(!A0 * A2 * !B0 * !B1 * YN)	-0.00002	-0.00001	-0.00001
	(!A0 * A2 * !B0 * !B1 * YN)	-0.00096	-0.00095	-0.00095
	(!A0 * !A2 * !B0 * !B1 * YN)	0.00071	0.00071	0.00071
	(!A0 * !A2 * !B0 * !B1 * YN)	0.00003	0.00004	0.00004
	(!A0 * !A2 * !B0 * !B1 * YN)	-0.00006	-0.00006	-0.00005
	(!A0 * !A2 * !B0 * !B1 * YN)	-0.00076	-0.00070	-0.00061

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X4H7H	(A1 * B1 * !YN)	-0.00000	0.00000	0.00000
	(A1 * B1 * !YN)	-0.00011	-0.00011	-0.00011
	(A1 * B1 * !YN)	0.00001	0.00001	0.00001
	(A1 * B1 * !YN)	0.00130	0.00132	0.00132
	(A1 * B0 * !B1 * !YN)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !B1 * !YN)	-0.00011	-0.00011	-0.00011
	(A1 * B0 * !B1 * !YN)	0.00001	0.00001	0.00002
	(A1 * B0 * !B1 * !YN)	0.00132	0.00132	0.00133
	(A1 * !B0 * !B1 * YN)	-0.00056	-0.00051	-0.00044
	(A1 * !B0 * !B1 * YN)	-0.00009	-0.00008	-0.00008
	(A1 * !B0 * !B1 * YN)	0.00001	0.00002	0.00002
	(A1 * !B0 * !B1 * YN)	0.00096	0.00096	0.00098
	(A0 * !A1 * B1 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * !YN)	-0.00011	-0.00011	-0.00011
	(A0 * !A1 * B1 * !YN)	0.00001	0.00002	0.00002
	(A0 * !A1 * B1 * !YN)	0.00131	0.00132	0.00132
	(A0 * !A1 * B0 * !B1 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * !YN)	-0.00011	-0.00011	-0.00011
	(A0 * !A1 * B0 * !B1 * !YN)	0.00001	0.00001	0.00002
	(A0 * !A1 * B0 * !B1 * !YN)	0.00130	0.00131	0.00132
	(A0 * !A1 * !B0 * !B1 * YN)	-0.00054	-0.00047	-0.00041
	(A0 * !A1 * !B0 * !B1 * YN)	-0.00010	-0.00009	-0.00008
	(A0 * !A1 * !B0 * !B1 * YN)	0.00001	0.00002	0.00002
	(A0 * !A1 * !B0 * !B1 * YN)	0.00096	0.00097	0.00098
	(!A0 * !A1 * !B0 * !B1 * YN)	-0.00071	-0.00070	-0.00070
	(!A0 * !A1 * !B0 * !B1 * YN)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !B0 * !B1 * YN)	0.00005	0.00006	0.00006
	(!A0 * !A1 * !B0 * !B1 * YN)	0.00076	0.00076	0.00077

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X4H7H	(A1 * B1 * !YN)	-0.00000	-0.00000	0.00000
	(A1 * B1 * !YN)	0.00012	0.00012	0.00012
	(A1 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * !YN)	-0.00132	-0.00131	-0.00130
	(A1 * B0 * !B1 * !YN)	-0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * !YN)	0.00012	0.00012	0.00012
	(A1 * B0 * !B1 * !YN)	-0.00002	-0.00001	-0.00001
	(A1 * B0 * !B1 * !YN)	-0.00132	-0.00131	-0.00130
	(A1 * !B0 * !B1 * YN)	0.00056	0.00056	0.00056
	(A1 * !B0 * !B1 * YN)	0.00008	0.00008	0.00009
	(A1 * !B0 * !B1 * YN)	-0.00002	-0.00001	-0.00001
	(A1 * !B0 * !B1 * YN)	-0.00097	-0.00096	-0.00095
	(A0 * !A1 * B1 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * !YN)	0.00011	0.00011	0.00011
	(A0 * !A1 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B1 * !YN)	-0.00131	-0.00131	-0.00129
	(A0 * !A1 * B0 * !B1 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * !YN)	0.00011	0.00011	0.00012
	(A0 * !A1 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B0 * !B1 * !YN)	-0.00131	-0.00131	-0.00129
	(A0 * !A1 * !B0 * !B1 * YN)	0.00053	0.00053	0.00054
	(A0 * !A1 * !B0 * !B1 * YN)	0.00008	0.00009	0.00010
	(A0 * !A1 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B0 * !B1 * YN)	-0.00096	-0.00095	-0.00093
	(!A0 * !A1 * !B0 * !B1 * YN)	0.00070	0.00071	0.00071
	(!A0 * !A1 * !B0 * !B1 * YN)	0.00004	0.00004	0.00005
	(!A0 * !A1 * !B0 * !B1 * YN)	-0.00006	-0.00006	-0.00005
	(!A0 * !A1 * !B0 * !B1 * YN)	-0.00077	-0.00071	-0.00063

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X4H7H	(A2 * B1 * !YN)	-0.00040	-0.00035	-0.00028
	(A2 * B1 * !YN)	-0.00008	-0.00008	-0.00008
	(A2 * B1 * !YN)	0.00001	0.00001	0.00002
	(A2 * B1 * !YN)	0.00106	0.00107	0.00108
	(A1 * !A2 * B1 * !YN)	-0.00040	-0.00035	-0.00028
	(A1 * !A2 * B1 * !YN)	-0.00008	-0.00008	-0.00008
	(A1 * !A2 * B1 * !YN)	0.00001	0.00002	0.00002
	(A1 * !A2 * B1 * !YN)	0.00106	0.00107	0.00109
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00040	-0.00035	-0.00028
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00008	-0.00008	-0.00007
	(A0 * !A1 * !A2 * B1 * !YN)	0.00001	0.00002	0.00002
	(A0 * !A1 * !A2 * B1 * !YN)	0.00106	0.00107	0.00110
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00079	-0.00074	-0.00068
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00009	-0.00008	-0.00008
	(!A0 * !A1 * !A2 * B1 * YN)	0.00008	0.00008	0.00008
	(!A0 * !A1 * !A2 * B1 * YN)	0.00028	0.00028	0.00030
	(!A0 * !A1 * !A2 * !B1 * YN)	-0.00091	-0.00089	-0.00089
	(!A0 * !A1 * !A2 * !B1 * YN)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !A2 * !B1 * YN)	0.00009	0.00009	0.00009
	(!A0 * !A1 * !A2 * !B1 * YN)	0.00026	0.00027	0.00028

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X4H7H	(A2 * B1 * !YN)	0.00040	0.00040	0.00040
	(A2 * B1 * !YN)	0.00008	0.00008	0.00008
	(A2 * B1 * !YN)	-0.00002	-0.00001	-0.00001
	(A2 * B1 * !YN)	-0.00106	-0.00106	-0.00106
	(A1 * !A2 * B1 * !YN)	0.00039	0.00040	0.00040
	(A1 * !A2 * B1 * !YN)	0.00008	0.00008	0.00008
	(A1 * !A2 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B1 * !YN)	-0.00106	-0.00106	-0.00105
	(A0 * !A1 * !A2 * B1 * !YN)	0.00039	0.00040	0.00040
	(A0 * !A1 * !A2 * B1 * !YN)	0.00007	0.00008	0.00008
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00106	-0.00106	-0.00105
	(!A0 * !A1 * !A2 * B1 * YN)	0.00078	0.00078	0.00079
	(!A0 * !A1 * !A2 * B1 * YN)	0.00008	0.00008	0.00009
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00028	-0.00028	-0.00028
	(!A0 * !A1 * !A2 * !B1 * YN)	0.00089	0.00090	0.00091
	(!A0 * !A1 * !A2 * !B1 * YN)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !A2 * !B1 * YN)	-0.00009	-0.00009	-0.00008
	(!A0 * !A1 * !A2 * !B1 * YN)	-0.00027	-0.00026	-0.00026

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X4H7H	(A2 * B0 * !YN)	-0.00000	0.00000	0.00000
	(A2 * B0 * !YN)	-0.00013	-0.00013	-0.00013
	(A2 * B0 * !YN)	0.00001	0.00002	0.00002
	(A2 * B0 * !YN)	0.00131	0.00132	0.00133
	(A1 * !A2 * B0 * !YN)	-0.00000	-0.00000	0.00000
	(A1 * !A2 * B0 * !YN)	-0.00013	-0.00013	-0.00013
	(A1 * !A2 * B0 * !YN)	0.00001	0.00002	0.00002
	(A1 * !A2 * B0 * !YN)	0.00132	0.00132	0.00133
	(A0 * !A1 * !A2 * B0 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * !YN)	-0.00013	-0.00013	-0.00013
	(A0 * !A1 * !A2 * B0 * !YN)	0.00001	0.00002	0.00002
	(A0 * !A1 * !A2 * B0 * !YN)	0.00131	0.00132	0.00133
	(!A0 * !A1 * !A2 * B0 * YN)	-0.00099	-0.00093	-0.00086
	(!A0 * !A1 * !A2 * B0 * YN)	-0.00010	-0.00010	-0.00009
	(!A0 * !A1 * !A2 * B0 * YN)	0.00008	0.00008	0.00008
	(!A0 * !A1 * !A2 * B0 * YN)	0.00019	0.00020	0.00021
	(!A0 * !A1 * !A2 * !B0 * YN)	-0.00116	-0.00114	-0.00113
	(!A0 * !A1 * !A2 * !B0 * YN)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !A2 * !B0 * YN)	0.00009	0.00009	0.00009
	(!A0 * !A1 * !A2 * !B0 * YN)	0.00017	0.00017	0.00018

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X4H7H	(A2 * B0 * !YN)	-0.00000	0.00000	0.00000
	(A2 * B0 * !YN)	0.00013	0.00014	0.00014
	(A2 * B0 * !YN)	-0.00001	-0.00001	-0.00001
	(A2 * B0 * !YN)	-0.00133	-0.00132	-0.00131
	(A1 * !A2 * B0 * !YN)	-0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !YN)	0.00014	0.00014	0.00014
	(A1 * !A2 * B0 * !YN)	-0.00002	-0.00002	-0.00001
	(A1 * !A2 * B0 * !YN)	-0.00133	-0.00132	-0.00131
	(A0 * !A1 * !A2 * B0 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * !YN)	0.00013	0.00014	0.00014
	(A0 * !A1 * !A2 * B0 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !A2 * B0 * !YN)	-0.00132	-0.00131	-0.00130
	(!A0 * !A1 * !A2 * B0 * YN)	0.00098	0.00098	0.00099
	(!A0 * !A1 * !A2 * B0 * YN)	0.00009	0.00010	0.00010
	(!A0 * !A1 * !A2 * B0 * YN)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * !A2 * B0 * YN)	-0.00020	-0.00019	-0.00019
	(!A0 * !A1 * !A2 * !B0 * YN)	0.00114	0.00115	0.00116
	(!A0 * !A1 * !A2 * !B0 * YN)	0.00004	0.00004	0.00005
	(!A0 * !A1 * !A2 * !B0 * YN)	-0.00009	-0.00009	-0.00008
	(!A0 * !A1 * !A2 * !B0 * YN)	-0.00018	-0.00017	-0.00017

OAI33X0P5H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI33 cell provides the logical inverted AND of two OR groups. The output (Y) is represented by the logic equation:

Truth Table

INPUT						OUTPUT
A0	A1	A2	B0	B1	B2	YN
0	0	0	x	x	x	1
0	x	1	0	0	0	1
0	x	1	0	x	1	0
0	x	1	x	1	x	0
0	x	1	1	x	x	0
x	1	x	0	0	0	1
x	1	x	0	x	1	0
x	1	x	x	1	x	0
x	1	x	1	x	x	0
1	x	x	0	0	0	1
1	x	x	0	x	1	0
1	x	x	x	1	x	0
1	x	x	1	x	x	0

Footprint

Cell Name	Area
OAI33X0P5H7H	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	**A1**	**A2**	**B0**	**B1**	**B2**	**YN**
OAI33X0P5H7H	0.00085	0.00087	0.00097	0.00098	0.00099	0.00104	0.01251

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
OAI33X0P5H7H	0.00000	0.01685	0.03054

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI33X0P5H7H	A0->YN (FR)	0.11617	0.27786	0.71882
	A1->YN (FR)	0.11326	0.27946	0.74179
	A2->YN (FR)	0.10597	0.26641	0.71895
	B0->YN (FR)	0.08435	0.24170	0.68213
	B1->YN (FR)	0.08048	0.24153	0.70459
	B2->YN (FR)	0.07151	0.22682	0.68199

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI33X0P5H7H	A0->YN (RF)	0.06107	0.17820	0.51274
	A1->YN (RF)	0.05827	0.17427	0.50809
	A2->YN (RF)	0.05462	0.16961	0.50339
	B0->YN (RF)	0.05085	0.16193	0.50155
	B1->YN (RF)	0.04753	0.15720	0.49691
	B2->YN (RF)	0.04354	0.15176	0.49151

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI33X0P5H7H	A0	0.00240	0.00243	0.00245
	A0	-0.00020	-0.00020	-0.00020
	A0	0.00024	0.00024	0.00024
	A0	-0.00005	-0.00002	-0.00000
	A1	0.00222	0.00225	0.00227
	A1	-0.00015	-0.00014	-0.00014
	A1	0.00024	0.00024	0.00024
	A1	0.00001	0.00003	0.00005
	A2	0.00198	0.00205	0.00209
	A2	-0.00008	-0.00007	-0.00007
	A2	0.00024	0.00024	0.00024
	A2	-0.00001	0.00003	0.00006
	B0	0.00194	0.00199	0.00202
	B0	-0.00020	-0.00020	-0.00020
	B0	0.00009	0.00009	0.00010
	B0	-0.00002	0.00003	0.00007
	B1	0.00175	0.00179	0.00183
	B1	-0.00014	-0.00014	-0.00014
	B1	0.00009	0.00009	0.00010
	B1	0.00002	0.00006	0.00010
	B2	0.00153	0.00158	0.00163
	B2	-0.00008	-0.00007	-0.00006
	B2	0.00009	0.00009	0.00010
	B2	0.00001	0.00005	0.00009

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI33X0P5H7H	A0	-0.00011	-0.00009	-0.00008
	A0	0.00032	0.00032	0.00032
	A0	-0.00022	-0.00022	-0.00022
	A0	0.00231	0.00233	0.00235
	A1	-0.00011	-0.00009	-0.00007
	A1	0.00026	0.00026	0.00027
	A1	-0.00022	-0.00022	-0.00022
	A1	0.00211	0.00214	0.00216
	A2	-0.00012	-0.00008	-0.00006
	A2	0.00020	0.00020	0.00020
	A2	-0.00022	-0.00022	-0.00022
	A2	0.00196	0.00200	0.00202
	B0	-0.00014	-0.00011	-0.00009
	B0	0.00032	0.00032	0.00032
	B0	-0.00009	-0.00009	-0.00009
	B0	0.00164	0.00169	0.00172
	B1	-0.00014	-0.00010	-0.00008
	B1	0.00026	0.00026	0.00027
	B1	-0.00009	-0.00009	-0.00008
	B1	0.00148	0.00152	0.00154
	B2	-0.00013	-0.00009	-0.00005
	B2	0.00020	0.00020	0.00021
	B2	-0.00009	-0.00009	-0.00008
	B2	0.00133	0.00137	0.00140

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X0P5H7H	**(A1 * A2 * B2 * !YN)**	-0.00012	-0.00011	-0.00010
	(A1 * A2 * B2 * !YN)	-0.00003	-0.00003	-0.00003
	(A1 * A2 * B2 * !YN)	0.00000	0.00001	0.00001
	(A1 * A2 * B2 * !YN)	0.00030	0.00031	0.00031
	(A1 * A2 * B1 * !B2 * !YN)	-0.00012	-0.00011	-0.00010
	(A1 * A2 * B1 * !B2 * !YN)	-0.00003	-0.00003	-0.00003
	(A1 * A2 * B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * A2 * B1 * !B2 * !YN)	0.00030	0.00031	0.00031
	(A1 * A2 * B0 * !B1 * !B2 * !YN)	-0.00012	-0.00011	-0.00010
	(A1 * A2 * B0 * !B1 * !B2 * !YN)	-0.00003	-0.00003	-0.00003
	(A1 * A2 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00001
	(A1 * A2 * B0 * !B1 * !B2 * !YN)	0.00030	0.00031	0.00031
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00012	-0.00011	-0.00010
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * !B1 * !B2 * YN)	0.00000	0.00001	0.00001
	(A1 * !B0 * !B1 * !B2 * YN)	0.00031	0.00031	0.00031
	(A1 * !A2 * B2 * !YN)	-0.00012	-0.00011	-0.00010
	(A1 * !A2 * B2 * !YN)	-0.00003	-0.00003	-0.00002
	(A1 * !A2 * B2 * !YN)	0.00000	0.00001	0.00001
	(A1 * !A2 * B2 * !YN)	0.00030	0.00031	0.00031
	(A1 * !A2 * B1 * !B2 * !YN)	-0.00012	-0.00011	-0.00009
	(A1 * !A2 * B1 * !B2 * !YN)	-0.00003	-0.00003	-0.00003
	(A1 * !A2 * B1 * !B2 * !YN)	0.00000	0.00001	0.00001
	(A1 * !A2 * B1 * !B2 * !YN)	0.00030	0.00031	0.00031
	(A1 * !A2 * B0 * !B1 * !B2 * !YN)	-0.00012	-0.00011	-0.00009
	(A1 * !A2 * B0 * !B1 * !B2 * !YN)	-0.00003	-0.00003	-0.00003
	(A1 * !A2 * B0 * !B1 * !B2 * !YN)	0.00000	0.00001	0.00001
	(A1 * !A2 * B0 * !B1 * !B2 * !YN)	0.00030	0.00031	0.00031
	(!A1 * A2 * B2 * !YN)	-0.00012	-0.00011	-0.00009
	(!A1 * A2 * B2 * !YN)	-0.00003	-0.00003	-0.00003
	(!A1 * A2 * B2 * !YN)	0.00000	0.00001	0.00001
	(!A1 * A2 * B2 * !YN)	0.00031	0.00031	0.00031
	(!A1 * A2 * B1 * !B2 * !YN)	-0.00012	-0.00011	-0.00009
	(!A1 * A2 * B1 * !B2 * !YN)	-0.00003	-0.00003	-0.00003
	(!A1 * A2 * B1 * !B2 * !YN)	0.00000	0.00001	0.00001
	(!A1 * A2 * B1 * !B2 * !YN)	0.00030	0.00031	0.00031
	(!A1 * A2 * B0 * !B1 * !B2 * !YN)	-0.00012	-0.00011	-0.00009
	(!A1 * A2 * B0 * !B1 * !B2 * !YN)	-0.00003	-0.00003	-0.00003
	(!A1 * A2 * B0 * !B1 * !B2 * !YN)	0.00000	0.00001	0.00001
	(!A1 * A2 * B0 * !B1 * !B2 * !YN)	0.00031	0.00031	0.00031
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	-0.00012	-0.00011	-0.00009
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	-0.00003	-0.00003	-0.00003
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	0.00000	0.00001	0.00001
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	0.00030	0.00031	0.00031
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00015	-0.00015	-0.00015
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	0.00002	0.00002	0.00002
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	0.00025	0.00026	0.00026

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X0P5H7H	**(A1 * A2 * B2 * !YN)**	0.00012	0.00012	0.00012
	(A1 * A2 * B2 * !YN)	0.00003	0.00003	0.00003
	(A1 * A2 * B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * A2 * B2 * !YN)	-0.00031	-0.00031	-0.00030
	(A1 * A2 * B1 * !B2 * !YN)	0.00012	0.00012	0.00012
	(A1 * A2 * B1 * !B2 * !YN)	0.00003	0.00003	0.00003
	(A1 * A2 * B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * A2 * B1 * !B2 * !YN)	-0.00031	-0.00031	-0.00030
	(A1 * A2 * B0 * !B1 * !B2 * !YN)	0.00012	0.00012	0.00012
	(A1 * A2 * B0 * !B1 * !B2 * !YN)	0.00003	0.00003	0.00003
	(A1 * A2 * B0 * !B1 * !B2 * !YN)	-0.00001	-0.00000	-0.00000
	(A1 * A2 * B0 * !B1 * !B2 * !YN)	-0.00031	-0.00031	-0.00030
	(A1 * !B0 * !B1 * !B2 * YN)	0.00012	0.00012	0.00012
	(A1 * !B0 * !B1 * !B2 * YN)	0.00003	0.00003	0.00003
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00031	-0.00031	-0.00030
	(A1 * !A2 * B2 * !YN)	0.00012	0.00012	0.00012
	(A1 * !A2 * B2 * !YN)	0.00002	0.00003	0.00003
	(A1 * !A2 * B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * B2 * !YN)	-0.00031	-0.00030	-0.00030
	(A1 * !A2 * B1 * !B2 * !YN)	0.00012	0.00012	0.00012
	(A1 * !A2 * B1 * !B2 * !YN)	0.00003	0.00003	0.00003
	(A1 * !A2 * B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B1 * !B2 * !YN)	-0.00031	-0.00030	-0.00030
	(A1 * !A2 * B0 * !B1 * !B2 * !YN)	0.00012	0.00012	0.00012
	(A1 * !A2 * B0 * !B1 * !B2 * !YN)	0.00003	0.00003	0.00003
	(A1 * !A2 * B0 * !B1 * !B2 * !YN)	-0.00000	-0.00001	-0.00000
	(A1 * !A2 * B0 * !B1 * !B2 * !YN)	-0.00031	-0.00030	-0.00030
	(!A1 * A2 * B2 * !YN)	0.00011	0.00012	0.00012
	(!A1 * A2 * B2 * !YN)	0.00003	0.00003	0.00003
	(!A1 * A2 * B2 * !YN)	-0.00000	-0.00001	-0.00000
	(!A1 * A2 * B2 * !YN)	-0.00031	-0.00030	-0.00030
	(!A1 * A2 * B1 * !B2 * !YN)	0.00011	0.00012	0.00012
	(!A1 * A2 * B1 * !B2 * !YN)	0.00003	0.00003	0.00003
	(!A1 * A2 * B1 * !B2 * !YN)	-0.00000	-0.00001	-0.00000
	(!A1 * A2 * B1 * !B2 * !YN)	-0.00031	-0.00030	-0.00030
	(!A1 * A2 * B0 * !B1 * !B2 * !YN)	0.00012	0.00012	0.00012
	(!A1 * A2 * B0 * !B1 * !B2 * !YN)	0.00003	0.00003	0.00003
	(!A1 * A2 * B0 * !B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00000
	(!A1 * A2 * B0 * !B1 * !B2 * !YN)	-0.00031	-0.00030	-0.00030
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	0.00012	0.00012	0.00012
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	0.00003	0.00003	0.00003
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	-0.00000	-0.00001	-0.00000
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	-0.00031	-0.00031	-0.00030
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	0.00015	0.00015	0.00016
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	0.00001	0.00001	0.00002
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00002	-0.00002	-0.00002
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00026	-0.00024	-0.00021

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X0P5H7H	**(A0 * A2 * B2 * !YN)**	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B2 * !YN)	-0.00008	-0.00008	-0.00008
	(A0 * A2 * B2 * !YN)	0.00000	0.00001	0.00001
	(A0 * A2 * B2 * !YN)	0.00025	0.00026	0.00026
	(A0 * A2 * B1 * !B2 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * A2 * B1 * !B2 * !YN)	-0.00008	-0.00008	-0.00008
	(A0 * A2 * B1 * !B2 * !YN)	0.00000	0.00001	0.00001
	(A0 * A2 * B1 * !B2 * !YN)	0.00026	0.00026	0.00026
	(A0 * A2 * B0 * !B1 * !B2 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * A2 * B0 * !B1 * !B2 * !YN)	-0.00008	-0.00008	-0.00008
	(A0 * A2 * B0 * !B1 * !B2 * !YN)	0.00000	0.00001	0.00001
	(A0 * A2 * B0 * !B1 * !B2 * !YN)	0.00026	0.00026	0.00026
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00008	-0.00008	-0.00008
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00000	0.00001	0.00001
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00026	0.00026	0.00026
	(A0 * !A2 * B2 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A2 * B2 * !YN)	-0.00006	-0.00006	-0.00006
	(A0 * !A2 * B2 * !YN)	0.00000	0.00001	0.00001
	(A0 * !A2 * B2 * !YN)	0.00025	0.00026	0.00026
	(A0 * !A2 * B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B1 * !B2 * !YN)	-0.00006	-0.00006	-0.00006
	(A0 * !A2 * B1 * !B2 * !YN)	0.00000	0.00001	0.00001
	(A0 * !A2 * B1 * !B2 * !YN)	0.00025	0.00026	0.00026
	(A0 * !A2 * B0 * !B1 * !B2 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * !A2 * B0 * !B1 * !B2 * !YN)	-0.00007	-0.00006	-0.00006
	(A0 * !A2 * B0 * !B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A2 * B0 * !B1 * !B2 * !YN)	0.00026	0.00026	0.00026
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00013	-0.00011	-0.00010
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00003	-0.00003	-0.00002
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00000	0.00000	0.00001
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00025	0.00025	0.00026
	(!A0 * A2 * B2 * !YN)	-0.00013	-0.00012	-0.00010
	(!A0 * A2 * B2 * !YN)	-0.00003	-0.00003	-0.00002
	(!A0 * A2 * B2 * !YN)	0.00000	0.00000	0.00001
	(!A0 * A2 * B2 * !YN)	0.00025	0.00026	0.00026
	(!A0 * A2 * B1 * !B2 * !YN)	-0.00013	-0.00012	-0.00010
	(!A0 * A2 * B1 * !B2 * !YN)	-0.00003	-0.00003	-0.00003
	(!A0 * A2 * B1 * !B2 * !YN)	0.00000	0.00001	0.00001
	(!A0 * A2 * B1 * !B2 * !YN)	0.00025	0.00026	0.00026
	(!A0 * A2 * B0 * !B1 * !B2 * !YN)	-0.00013	-0.00012	-0.00010
	(!A0 * A2 * B0 * !B1 * !B2 * !YN)	-0.00003	-0.00003	-0.00003
	(!A0 * A2 * B0 * !B1 * !B2 * !YN)	0.00000	0.00001	0.00001
	(!A0 * A2 * B0 * !B1 * !B2 * !YN)	0.00025	0.00026	0.00026
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00013	-0.00012	-0.00010
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00000	0.00001	0.00001
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00025	0.00025	0.00025
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00016	-0.00016	-0.00016
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00020	0.00020	0.00020

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X0P5H7H	**(A0 * A2 * B2 * !YN)**	0.00000	0.00000	0.00000
	(A0 * A2 * B2 * !YN)	0.00008	0.00008	0.00008
	(A0 * A2 * B2 * !YN)	-0.00001	-0.00000	-0.00000
	(A0 * A2 * B2 * !YN)	-0.00026	-0.00026	-0.00025
	(A0 * A2 * B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * A2 * B1 * !B2 * !YN)	0.00008	0.00008	0.00008
	(A0 * A2 * B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * A2 * B1 * !B2 * !YN)	-0.00026	-0.00026	-0.00025
	(A0 * A2 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * !B1 * !B2 * !YN)	0.00008	0.00008	0.00008
	(A0 * A2 * B0 * !B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * A2 * B0 * !B1 * !B2 * !YN)	-0.00026	-0.00026	-0.00025
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00000	0.00000	0.00000
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00008	0.00008	0.00008
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00000
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00026	-0.00026	-0.00026
	(A0 * !A2 * B2 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * !A2 * B2 * !YN)	0.00006	0.00007	0.00007
	(A0 * !A2 * B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A2 * B2 * !YN)	-0.00026	-0.00026	-0.00025
	(A0 * !A2 * B1 * !B2 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * !A2 * B1 * !B2 * !YN)	0.00006	0.00007	0.00007
	(A0 * !A2 * B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A2 * B1 * !B2 * !YN)	-0.00026	-0.00026	-0.00025
	(A0 * !A2 * B0 * !B1 * !B2 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !B1 * !B2 * !YN)	0.00007	0.00007	0.00007
	(A0 * !A2 * B0 * !B1 * !B2 * !YN)	-0.00001	-0.00000	0.00000
	(A0 * !A2 * B0 * !B1 * !B2 * !YN)	-0.00026	-0.00026	-0.00025
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00013	0.00013	0.00013
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00002	0.00003	0.00003
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00025	-0.00025	-0.00025
	(!A0 * A2 * B2 * !YN)	0.00013	0.00013	0.00013
	(!A0 * A2 * B2 * !YN)	0.00002	0.00003	0.00003
	(!A0 * A2 * B2 * !YN)	-0.00001	-0.00000	-0.00000
	(!A0 * A2 * B2 * !YN)	-0.00026	-0.00025	-0.00025
	(!A0 * A2 * B1 * !B2 * !YN)	0.00013	0.00013	0.00013
	(!A0 * A2 * B1 * !B2 * !YN)	0.00003	0.00003	0.00003
	(!A0 * A2 * B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00000
	(!A0 * A2 * B1 * !B2 * !YN)	-0.00026	-0.00025	-0.00025
	(!A0 * A2 * B0 * !B1 * !B2 * !YN)	0.00013	0.00013	0.00013
	(!A0 * A2 * B0 * !B1 * !B2 * !YN)	0.00003	0.00003	0.00003
	(!A0 * A2 * B0 * !B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00000
	(!A0 * A2 * B0 * !B1 * !B2 * !YN)	-0.00025	-0.00025	-0.00025
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00013	0.00013	0.00013
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00003	0.00003	0.00003
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00000
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00025	-0.00025	-0.00025
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00016	0.00016	0.00017
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00020	-0.00018	-0.00016

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X0P5H7H	**(A1 * B2 * !YN)**	-0.00000	0.00000	0.00000
	(A1 * B2 * !YN)	-0.00004	-0.00004	-0.00004
	(A1 * B2 * !YN)	0.00000	0.00001	0.00001
	(A1 * B2 * !YN)	0.00033	0.00033	0.00033
	(A1 * B1 * !B2 * !YN)	-0.00000	0.00000	0.00000
	(A1 * B1 * !B2 * !YN)	-0.00004	-0.00004	-0.00004
	(A1 * B1 * !B2 * !YN)	0.00000	0.00001	0.00001
	(A1 * B1 * !B2 * !YN)	0.00033	0.00033	0.00033
	(A1 * B0 * !B1 * !B2 * !YN)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !B1 * !B2 * !YN)	-0.00004	-0.00004	-0.00004
	(A1 * B0 * !B1 * !B2 * !YN)	0.00000	0.00001	0.00001
	(A1 * B0 * !B1 * !B2 * !YN)	0.00033	0.00033	0.00033
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00014	-0.00013	-0.00011
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * !B1 * !B2 * YN)	0.00000	0.00001	0.00001
	(A1 * !B0 * !B1 * !B2 * YN)	0.00026	0.00026	0.00026
	(A0 * !A1 * B2 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B2 * !YN)	-0.00004	-0.00004	-0.00004
	(A0 * !A1 * B2 * !YN)	0.00000	0.00001	0.00001
	(A0 * !A1 * B2 * !YN)	0.00033	0.00033	0.00033
	(A0 * !A1 * B1 * !B2 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * !B2 * !YN)	-0.00004	-0.00004	-0.00004
	(A0 * !A1 * B1 * !B2 * !YN)	0.00000	0.00001	0.00001
	(A0 * !A1 * B1 * !B2 * !YN)	0.00033	0.00033	0.00034
	(A0 * !A1 * B0 * !B1 * !B2 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * !B2 * !YN)	-0.00004	-0.00004	-0.00004
	(A0 * !A1 * B0 * !B1 * !B2 * !YN)	0.00000	0.00001	0.00001
	(A0 * !A1 * B0 * !B1 * !B2 * !YN)	0.00033	0.00033	0.00033
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00014	-0.00012	-0.00010
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00004	-0.00003	-0.00002
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00000	0.00001	0.00001
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00025	0.00026	0.00026
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00018	-0.00018	-0.00018
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00020	0.00020	0.00021

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X0P5H7H	**(A1 * B2 * !YN)**	-0.00000	-0.00000	0.00000
	(A1 * B2 * !YN)	0.00004	0.00004	0.00004
	(A1 * B2 * !YN)	-0.00000	-0.00001	-0.00000
	(A1 * B2 * !YN)	-0.00033	-0.00033	-0.00033
	(A1 * B1 * !B2 * !YN)	-0.00000	-0.00000	0.00000
	(A1 * B1 * !B2 * !YN)	0.00004	0.00004	0.00004
	(A1 * B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * B1 * !B2 * !YN)	-0.00033	-0.00033	-0.00033
	(A1 * B0 * !B1 * !B2 * !YN)	-0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * !B2 * !YN)	0.00004	0.00004	0.00004
	(A1 * B0 * !B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !B1 * !B2 * !YN)	-0.00033	-0.00033	-0.00033
	(A1 * !B0 * !B1 * !B2 * YN)	0.00014	0.00014	0.00014
	(A1 * !B0 * !B1 * !B2 * YN)	0.00003	0.00003	0.00003
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00026	-0.00026	-0.00026
	(A0 * !A1 * B2 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B2 * !YN)	0.00004	0.00004	0.00004
	(A0 * !A1 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B2 * !YN)	-0.00033	-0.00033	-0.00032
	(A0 * !A1 * B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * !B2 * !YN)	0.00004	0.00004	0.00004
	(A0 * !A1 * B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * !B2 * !YN)	-0.00033	-0.00033	-0.00033
	(A0 * !A1 * B0 * !B1 * !B2 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * !B2 * !YN)	0.00004	0.00004	0.00004
	(A0 * !A1 * B0 * !B1 * !B2 * !YN)	-0.00000	-0.00001	-0.00000
	(A0 * !A1 * B0 * !B1 * !B2 * !YN)	-0.00033	-0.00033	-0.00033
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00013	0.00014	0.00014
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00002	0.00003	0.00004
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00026	-0.00026	-0.00025
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00018	0.00018	0.00018
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00020	-0.00018	-0.00015

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X0P5H7H	**(A2 * B1 * B2 * !YN)**	-0.00012	-0.00011	-0.00010
	(A2 * B1 * B2 * !YN)	-0.00003	-0.00003	-0.00003
	(A2 * B1 * B2 * !YN)	0.00000	0.00001	0.00001
	(A2 * B1 * B2 * !YN)	0.00032	0.00032	0.00032
	(A2 * B1 * !B2 * !YN)	-0.00012	-0.00011	-0.00010
	(A2 * B1 * !B2 * !YN)	-0.00003	-0.00003	-0.00003
	(A2 * B1 * !B2 * !YN)	0.00000	0.00001	0.00001
	(A2 * B1 * !B2 * !YN)	0.00032	0.00032	0.00032
	(A2 * !B1 * B2 * !YN)	-0.00012	-0.00011	-0.00009
	(A2 * !B1 * B2 * !YN)	-0.00003	-0.00003	-0.00003
	(A2 * !B1 * B2 * !YN)	0.00000	0.00001	0.00001
	(A2 * !B1 * B2 * !YN)	0.00032	0.00032	0.00032
	(A1 * !A2 * B1 * B2 * !YN)	-0.00012	-0.00011	-0.00010
	(A1 * !A2 * B1 * B2 * !YN)	-0.00003	-0.00003	-0.00003
	(A1 * !A2 * B1 * B2 * !YN)	0.00000	0.00001	0.00001
	(A1 * !A2 * B1 * B2 * !YN)	0.00032	0.00032	0.00032
	(A1 * !A2 * B1 * !B2 * !YN)	-0.00012	-0.00011	-0.00010
	(A1 * !A2 * B1 * !B2 * !YN)	-0.00003	-0.00003	-0.00003
	(A1 * !A2 * B1 * !B2 * !YN)	0.00000	0.00001	0.00001
	(A1 * !A2 * B1 * !B2 * !YN)	0.00032	0.00032	0.00032
	(A1 * !A2 * !B1 * B2 * !YN)	-0.00012	-0.00011	-0.00009
	(A1 * !A2 * !B1 * B2 * !YN)	-0.00003	-0.00003	-0.00003
	(A1 * !A2 * !B1 * B2 * !YN)	0.00000	0.00001	0.00001
	(A1 * !A2 * !B1 * B2 * !YN)	0.00032	0.00032	0.00032
	(A0 * !A1 * !A2 * B1 * B2 * !YN)	-0.00012	-0.00011	-0.00010
	(A0 * !A1 * !A2 * B1 * B2 * !YN)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * !A2 * B1 * B2 * !YN)	0.00000	0.00001	0.00001
	(A0 * !A1 * !A2 * B1 * B2 * !YN)	0.00032	0.00032	0.00032
	(A0 * !A1 * !A2 * B1 * !B2 * !YN)	-0.00012	-0.00011	-0.00009
	(A0 * !A1 * !A2 * B1 * !B2 * !YN)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * !A2 * B1 * !B2 * !YN)	0.00000	0.00001	0.00001
	(A0 * !A1 * !A2 * B1 * !B2 * !YN)	0.00032	0.00032	0.00032
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	-0.00012	-0.00011	-0.00009
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	0.00000	0.00001	0.00001
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	0.00032	0.00032	0.00032
	(!A0 * !A1 * !A2 * B1 * B2 * YN)	-0.00026	-0.00025	-0.00023
	(!A0 * !A1 * !A2 * B1 * B2 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * B1 * B2 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * B1 * B2 * YN)	0.00006	0.00006	0.00007
	(!A0 * !A1 * !A2 * B1 * !B2 * YN)	-0.00026	-0.00025	-0.00023
	(!A0 * !A1 * !A2 * B1 * !B2 * YN)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * !A2 * B1 * !B2 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * B1 * !B2 * YN)	0.00006	0.00006	0.00007
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	-0.00025	-0.00024	-0.00022
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	0.00006	0.00006	0.00007
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	-0.00028	-0.00028	-0.00028
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	0.00006	0.00006	0.00007

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X0P5H7H	**(A2 * B1 * B2 * !YN)**	0.00012	0.00012	0.00012
	(A2 * B1 * B2 * !YN)	0.00003	0.00003	0.00003
	(A2 * B1 * B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A2 * B1 * B2 * !YN)	-0.00032	-0.00032	-0.00032
	(A2 * B1 * !B2 * !YN)	0.00012	0.00012	0.00012
	(A2 * B1 * !B2 * !YN)	0.00003	0.00003	0.00003
	(A2 * B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A2 * B1 * !B2 * !YN)	-0.00032	-0.00032	-0.00032
	(A2 * !B1 * B2 * !YN)	0.00012	0.00012	0.00012
	(A2 * !B1 * B2 * !YN)	0.00003	0.00003	0.00003
	(A2 * !B1 * B2 * !YN)	-0.00001	-0.00000	0.00000
	(A2 * !B1 * B2 * !YN)	-0.00032	-0.00032	-0.00032
	(A1 * !A2 * B1 * B2 * !YN)	0.00012	0.00012	0.00012
	(A1 * !A2 * B1 * B2 * !YN)	0.00003	0.00003	0.00003
	(A1 * !A2 * B1 * B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * B1 * B2 * !YN)	-0.00032	-0.00032	-0.00032
	(A1 * !A2 * B1 * !B2 * !YN)	0.00012	0.00012	0.00012
	(A1 * !A2 * B1 * !B2 * !YN)	0.00003	0.00003	0.00003
	(A1 * !A2 * B1 * !B2 * !YN)	-0.00000	-0.00001	-0.00000
	(A1 * !A2 * B1 * !B2 * !YN)	-0.00032	-0.00032	-0.00032
	(A1 * !A2 * !B1 * B2 * !YN)	0.00011	0.00012	0.00012
	(A1 * !A2 * !B1 * B2 * !YN)	0.00003	0.00003	0.00003
	(A1 * !A2 * !B1 * B2 * !YN)	-0.00001	-0.00000	-0.00000
	(A1 * !A2 * !B1 * B2 * !YN)	-0.00032	-0.00032	-0.00032
	(A0 * !A1 * !A2 * B1 * B2 * !YN)	0.00012	0.00012	0.00012
	(A0 * !A1 * !A2 * B1 * B2 * !YN)	0.00003	0.00003	0.00003
	(A0 * !A1 * !A2 * B1 * B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !A2 * B1 * B2 * !YN)	-0.00032	-0.00032	-0.00032
	(A0 * !A1 * !A2 * B1 * !B2 * !YN)	0.00012	0.00012	0.00012
	(A0 * !A1 * !A2 * B1 * !B2 * !YN)	0.00003	0.00003	0.00003
	(A0 * !A1 * !A2 * B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !A2 * B1 * !B2 * !YN)	-0.00032	-0.00032	-0.00032
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	0.00012	0.00012	0.00012
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	0.00003	0.00003	0.00003
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	-0.00032	-0.00032	-0.00032
	(!A0 * !A1 * !A2 * B1 * B2 * YN)	0.00026	0.00026	0.00026
	(!A0 * !A1 * !A2 * B1 * B2 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * B1 * B2 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * B1 * B2 * YN)	-0.00007	-0.00006	-0.00006
	(!A0 * !A1 * !A2 * B1 * !B2 * YN)	0.00026	0.00026	0.00026
	(!A0 * !A1 * !A2 * B1 * !B2 * YN)	0.00002	0.00003	0.00003
	(!A0 * !A1 * !A2 * B1 * !B2 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * B1 * !B2 * YN)	-0.00007	-0.00006	-0.00006
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	0.00025	0.00025	0.00025
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	0.00028	0.00028	0.00029
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X0P5H7H	**(A2 * B0 * B2 * !YN)**	-0.00000	-0.00000	0.00000
	(A2 * B0 * B2 * !YN)	-0.00008	-0.00008	-0.00008
	(A2 * B0 * B2 * !YN)	0.00000	0.00001	0.00001
	(A2 * B0 * B2 * !YN)	0.00028	0.00029	0.00029
	(A2 * B0 * !B2 * !YN)	-0.00000	0.00000	0.00000
	(A2 * B0 * !B2 * !YN)	-0.00006	-0.00006	-0.00006
	(A2 * B0 * !B2 * !YN)	0.00000	0.00001	0.00001
	(A2 * B0 * !B2 * !YN)	0.00028	0.00029	0.00029
	(A2 * !B0 * B2 * !YN)	-0.00013	-0.00012	-0.00010
	(A2 * !B0 * B2 * !YN)	-0.00003	-0.00003	-0.00002
	(A2 * !B0 * B2 * !YN)	0.00000	0.00001	0.00001
	(A2 * !B0 * B2 * !YN)	0.00028	0.00028	0.00029
	(A1 * !A2 * B0 * B2 * !YN)	-0.00000	-0.00000	0.00000
	(A1 * !A2 * B0 * B2 * !YN)	-0.00008	-0.00008	-0.00008
	(A1 * !A2 * B0 * B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * B2 * !YN)	0.00029	0.00029	0.00029
	(A1 * !A2 * B0 * !B2 * !YN)	-0.00000	-0.00000	0.00000
	(A1 * !A2 * B0 * !B2 * !YN)	-0.00006	-0.00006	-0.00006
	(A1 * !A2 * B0 * !B2 * !YN)	0.00000	0.00001	0.00001
	(A1 * !A2 * B0 * !B2 * !YN)	0.00028	0.00029	0.00029
	(A1 * !A2 * !B0 * B2 * !YN)	-0.00013	-0.00012	-0.00010
	(A1 * !A2 * !B0 * B2 * !YN)	-0.00003	-0.00003	-0.00003
	(A1 * !A2 * !B0 * B2 * !YN)	0.00000	0.00001	0.00001
	(A1 * !A2 * !B0 * B2 * !YN)	0.00028	0.00028	0.00029
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	-0.00008	-0.00008	-0.00008
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	0.00000	0.00001	0.00001
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	0.00028	0.00029	0.00029
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	-0.00006	-0.00006	-0.00006
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	0.00000	0.00001	0.00001
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	0.00028	0.00028	0.00029
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	-0.00013	-0.00012	-0.00010
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	-0.00003	-0.00003	-0.00002
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	0.00000	0.00001	0.00001
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	0.00028	0.00028	0.00029
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	-0.00013	-0.00013	-0.00013
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	0.00003	0.00003	0.00004
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	-0.00025	-0.00024	-0.00022
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	-0.00026	-0.00025	-0.00023
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	-0.00029	-0.00028	-0.00028
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	0.00003	0.00003	0.00004

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X0P5H7H	**(A2 * B0 * B2 * !YN)**	0.00000	0.00000	0.00000
	(A2 * B0 * B2 * !YN)	0.00008	0.00008	0.00008
	(A2 * B0 * B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A2 * B0 * B2 * !YN)	-0.00029	-0.00028	-0.00028
	(A2 * B0 * !B2 * !YN)	-0.00000	0.00000	0.00000
	(A2 * B0 * !B2 * !YN)	0.00007	0.00007	0.00007
	(A2 * B0 * !B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A2 * B0 * !B2 * !YN)	-0.00029	-0.00029	-0.00028
	(A2 * !B0 * B2 * !YN)	0.00013	0.00013	0.00013
	(A2 * !B0 * B2 * !YN)	0.00002	0.00003	0.00003
	(A2 * !B0 * B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A2 * !B0 * B2 * !YN)	-0.00028	-0.00028	-0.00028
	(A1 * !A2 * B0 * B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * B2 * !YN)	0.00008	0.00008	0.00008
	(A1 * !A2 * B0 * B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * B0 * B2 * !YN)	-0.00029	-0.00028	-0.00028
	(A1 * !A2 * B0 * !B2 * !YN)	-0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !B2 * !YN)	0.00006	0.00007	0.00007
	(A1 * !A2 * B0 * !B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * B0 * !B2 * !YN)	-0.00029	-0.00029	-0.00028
	(A1 * !A2 * !B0 * B2 * !YN)	0.00013	0.00013	0.00013
	(A1 * !A2 * !B0 * B2 * !YN)	0.00003	0.00003	0.00003
	(A1 * !A2 * !B0 * B2 * !YN)	-0.00001	-0.00000	-0.00000
	(A1 * !A2 * !B0 * B2 * !YN)	-0.00028	-0.00028	-0.00028
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	0.00008	0.00008	0.00008
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	-0.00029	-0.00028	-0.00028
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	0.00006	0.00006	0.00007
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	-0.00029	-0.00028	-0.00028
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	0.00013	0.00013	0.00013
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	0.00002	0.00003	0.00003
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	-0.00028	-0.00028	-0.00028
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	0.00013	0.00013	0.00013
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	0.00008	0.00008	0.00008
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	0.00025	0.00025	0.00025
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	0.00002	0.00003	0.00003
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	0.00025	0.00026	0.00026
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	0.00002	0.00003	0.00003
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	0.00028	0.00029	0.00029
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	0.00001	0.00001	0.00002
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	-0.00003	-0.00003	-0.00003

Passive power(pJ) for B2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X0P5H7H	**(A2 * B1 * !YN)**	-0.00000	0.00000	0.00000
	(A2 * B1 * !YN)	-0.00004	-0.00004	-0.00004
	(A2 * B1 * !YN)	0.00000	0.00001	0.00001
	(A2 * B1 * !YN)	0.00036	0.00036	0.00036
	(A2 * B0 * !B1 * !YN)	-0.00000	-0.00000	0.00000
	(A2 * B0 * !B1 * !YN)	-0.00004	-0.00004	-0.00004
	(A2 * B0 * !B1 * !YN)	0.00000	0.00001	0.00001
	(A2 * B0 * !B1 * !YN)	0.00035	0.00036	0.00036
	(A1 * !A2 * B1 * !YN)	-0.00000	0.00000	0.00000
	(A1 * !A2 * B1 * !YN)	-0.00004	-0.00004	-0.00004
	(A1 * !A2 * B1 * !YN)	0.00000	0.00001	0.00001
	(A1 * !A2 * B1 * !YN)	0.00035	0.00036	0.00036
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00004	-0.00004	-0.00004
	(A1 * !A2 * B0 * !B1 * !YN)	0.00000	0.00001	0.00001
	(A1 * !A2 * B0 * !B1 * !YN)	0.00035	0.00036	0.00036
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00004	-0.00004	-0.00004
	(A0 * !A1 * !A2 * B1 * !YN)	0.00000	0.00001	0.00001
	(A0 * !A1 * !A2 * B1 * !YN)	0.00035	0.00036	0.00036
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	-0.00004	-0.00004	-0.00004
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	0.00035	0.00036	0.00036
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00027	-0.00025	-0.00023
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * !A2 * B1 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * B1 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	-0.00026	-0.00024	-0.00022
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	-0.00030	-0.00029	-0.00029
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	0.00003	0.00003	0.00004

Passive power(pJ) for B2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X0P5H7H	**(A2 * B1 * !YN)**	-0.00000	-0.00000	0.00000
	(A2 * B1 * !YN)	0.00004	0.00004	0.00004
	(A2 * B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A2 * B1 * !YN)	-0.00036	-0.00036	-0.00035
	(A2 * B0 * !B1 * !YN)	-0.00000	0.00000	0.00000
	(A2 * B0 * !B1 * !YN)	0.00004	0.00004	0.00004
	(A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A2 * B0 * !B1 * !YN)	-0.00036	-0.00036	-0.00035
	(A1 * !A2 * B1 * !YN)	-0.00000	0.00000	0.00000
	(A1 * !A2 * B1 * !YN)	0.00004	0.00004	0.00004
	(A1 * !A2 * B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * B1 * !YN)	-0.00036	-0.00036	-0.00035
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00000	-0.00000	0.00000
	(A1 * !A2 * B0 * !B1 * !YN)	0.00004	0.00004	0.00004
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00001	-0.00000	-0.00000
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00036	-0.00036	-0.00035
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B1 * !YN)	0.00004	0.00004	0.00004
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00036	-0.00036	-0.00035
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	0.00004	0.00004	0.00004
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	-0.00036	-0.00036	-0.00035
	(!A0 * !A1 * !A2 * B1 * YN)	0.00026	0.00026	0.00027
	(!A0 * !A1 * !A2 * B1 * YN)	0.00002	0.00003	0.00003
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	0.00026	0.00026	0.00026
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	0.00029	0.00029	0.00030
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	-0.00003	-0.00003	-0.00003

OAI33X0P7H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI33 cell provides the logical inverted AND of two OR groups. The output (Y) is represented by the logic equation:

Truth Table

INPUT						OUTPUT
A0	A1	A2	B0	B1	B2	YN
0	0	0	x	x	x	1
0	x	1	0	0	0	1
0	x	1	0	x	1	0
0	x	1	x	1	x	0
0	x	1	1	x	x	0
x	1	x	0	0	0	1
x	1	x	0	x	1	0
x	1	x	x	1	x	0
x	1	x	1	x	x	0
1	x	x	0	0	0	1
1	x	x	0	x	1	0
1	x	x	x	1	x	0
1	x	x	1	x	x	0

Footprint

Cell Name	Area
OAI33X0P7H7H	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	**A1**	**A2**	**B0**	**B1**	**B2**	**YN**
OAI33X0P7H7H	0.00078	0.00080	0.00089	0.00090	0.00092	0.00097	0.00994

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
OAI33X0P7H7H	0.00000	0.01425	0.02090

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI33X0P7H7H	A0->YN (FR)	0.13261	0.29051	0.71977
	A1->YN (FR)	0.12978	0.29244	0.74281
	A2->YN (FR)	0.12310	0.28011	0.72126
	B0->YN (FR)	0.09532	0.24875	0.67744
	B1->YN (FR)	0.09148	0.24886	0.69848
	B2->YN (FR)	0.08332	0.23532	0.67840

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI33X0P7H7H	A0->YN (RF)	0.06090	0.17049	0.48289
	A1->YN (RF)	0.05848	0.16703	0.47831
	A2->YN (RF)	0.05544	0.16304	0.47390
	B0->YN (RF)	0.05038	0.15409	0.47209
	B1->YN (RF)	0.04743	0.14988	0.46753
	B2->YN (RF)	0.04410	0.14518	0.46273

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI33X0P7H7H	A0	0.00212	0.00215	0.00217
	A0	-0.00016	-0.00016	-0.00015
	A0	0.00021	0.00021	0.00021
	A0	-0.00004	-0.00002	0.00000
	A1	0.00197	0.00200	0.00202
	A1	-0.00011	-0.00011	-0.00011
	A1	0.00021	0.00021	0.00021
	A1	0.00001	0.00004	0.00006
	A2	0.00180	0.00185	0.00188
	A2	-0.00006	-0.00006	-0.00006
	A2	0.00021	0.00021	0.00021
	A2	0.00000	0.00003	0.00006
	B0	0.00169	0.00173	0.00177
	B0	-0.00016	-0.00016	-0.00015
	B0	0.00008	0.00008	0.00009
	B0	-0.00001	0.00004	0.00007
	B1	0.00153	0.00158	0.00161
	B1	-0.00011	-0.00011	-0.00011
	B1	0.00008	0.00008	0.00009
	B1	0.00003	0.00007	0.00010
	B2	0.00138	0.00142	0.00146
	B2	-0.00006	-0.00006	-0.00005
	B2	0.00008	0.00008	0.00009
	B2	0.00002	0.00006	0.00010

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI33X0P7H7H	A0	-0.00008	-0.00007	-0.00006
	A0	0.00025	0.00026	0.00026
	A0	-0.00020	-0.00020	-0.00020
	A0	0.00207	0.00209	0.00210
	A1	-0.00009	-0.00007	-0.00006
	A1	0.00021	0.00021	0.00021
	A1	-0.00020	-0.00020	-0.00020
	A1	0.00190	0.00192	0.00194
	A2	-0.00009	-0.00006	-0.00005
	A2	0.00016	0.00016	0.00016
	A2	-0.00020	-0.00020	-0.00019
	A2	0.00178	0.00181	0.00183
	B0	-0.00011	-0.00009	-0.00007
	B0	0.00025	0.00026	0.00026
	B0	-0.00008	-0.00008	-0.00005
	B0	0.00145	0.00148	0.00151
	B1	-0.00011	-0.00008	-0.00006
	B1	0.00021	0.00021	0.00021
	B1	-0.00008	-0.00008	-0.00007
	B1	0.00130	0.00134	0.00136
	B2	-0.00010	-0.00007	-0.00005
	B2	0.00016	0.00016	0.00016
	B2	-0.00008	-0.00008	-0.00007
	B2	0.00119	0.00122	0.00125

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X0P7H7H	**(A1 * A2 * B2 * !YN)**	-0.00010	-0.00009	-0.00008
	(A1 * A2 * B2 * !YN)	-0.00002	-0.00002	-0.00002
	(A1 * A2 * B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * A2 * B2 * !YN)	0.00030	0.00030	0.00030
	(A1 * A2 * B1 * !B2 * !YN)	-0.00010	-0.00009	-0.00008
	(A1 * A2 * B1 * !B2 * !YN)	-0.00002	-0.00002	-0.00002
	(A1 * A2 * B1 * !B2 * !YN)	0.00000	0.00001	0.00001
	(A1 * A2 * B1 * !B2 * !YN)	0.00030	0.00030	0.00030
	(A1 * A2 * B0 * !B1 * !B2 * !YN)	-0.00010	-0.00009	-0.00008
	(A1 * A2 * B0 * !B1 * !B2 * !YN)	-0.00002	-0.00002	-0.00002
	(A1 * A2 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00001
	(A1 * A2 * B0 * !B1 * !B2 * !YN)	0.00030	0.00030	0.00030
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00010	-0.00009	-0.00008
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !B1 * !B2 * YN)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * !B2 * YN)	0.00030	0.00030	0.00030
	(A1 * !A2 * B2 * !YN)	-0.00010	-0.00009	-0.00008
	(A1 * !A2 * B2 * !YN)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B2 * !YN)	0.00030	0.00030	0.00030
	(A1 * !A2 * B1 * !B2 * !YN)	-0.00010	-0.00009	-0.00008
	(A1 * !A2 * B1 * !B2 * !YN)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B1 * !B2 * !YN)	0.00029	0.00030	0.00030
	(A1 * !A2 * B0 * !B1 * !B2 * !YN)	-0.00010	-0.00009	-0.00008
	(A1 * !A2 * B0 * !B1 * !B2 * !YN)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !B1 * !B2 * !YN)	0.00030	0.00030	0.00030
	(!A1 * A2 * B2 * !YN)	-0.00010	-0.00009	-0.00007
	(!A1 * A2 * B2 * !YN)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * B2 * !YN)	0.00000	0.00000	0.00001
	(!A1 * A2 * B2 * !YN)	0.00030	0.00030	0.00030
	(!A1 * A2 * B1 * !B2 * !YN)	-0.00009	-0.00009	-0.00007
	(!A1 * A2 * B1 * !B2 * !YN)	-0.00003	-0.00002	-0.00002
	(!A1 * A2 * B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(!A1 * A2 * B1 * !B2 * !YN)	0.00030	0.00030	0.00030
	(!A1 * A2 * B0 * !B1 * !B2 * !YN)	-0.00010	-0.00009	-0.00007
	(!A1 * A2 * B0 * !B1 * !B2 * !YN)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(!A1 * A2 * B0 * !B1 * !B2 * !YN)	0.00030	0.00030	0.00030
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	-0.00010	-0.00009	-0.00007
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	0.00030	0.00030	0.00030
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00013	-0.00013	-0.00012
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	0.00001	0.00002	0.00002
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	0.00025	0.00025	0.00025

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X0P7H7H	**(A1 * A2 * B2 * !YN)**	0.00010	0.00010	0.00010
	(A1 * A2 * B2 * !YN)	0.00002	0.00002	0.00002
	(A1 * A2 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * A2 * B2 * !YN)	-0.00030	-0.00030	-0.00029
	(A1 * A2 * B1 * !B2 * !YN)	0.00010	0.00010	0.00010
	(A1 * A2 * B1 * !B2 * !YN)	0.00002	0.00002	0.00002
	(A1 * A2 * B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * A2 * B1 * !B2 * !YN)	-0.00030	-0.00030	-0.00030
	(A1 * A2 * B0 * !B1 * !B2 * !YN)	0.00010	0.00010	0.00010
	(A1 * A2 * B0 * !B1 * !B2 * !YN)	0.00002	0.00002	0.00002
	(A1 * A2 * B0 * !B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * A2 * B0 * !B1 * !B2 * !YN)	-0.00030	-0.00030	-0.00030
	(A1 * !B0 * !B1 * !B2 * YN)	0.00010	0.00010	0.00010
	(A1 * !B0 * !B1 * !B2 * YN)	0.00002	0.00002	0.00002
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00030	-0.00030	-0.00030
	(A1 * !A2 * B2 * !YN)	0.00010	0.00010	0.00010
	(A1 * !A2 * B2 * !YN)	0.00002	0.00002	0.00002
	(A1 * !A2 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B2 * !YN)	-0.00030	-0.00030	-0.00029
	(A1 * !A2 * B1 * !B2 * !YN)	0.00010	0.00010	0.00010
	(A1 * !A2 * B1 * !B2 * !YN)	0.00002	0.00002	0.00002
	(A1 * !A2 * B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B1 * !B2 * !YN)	-0.00030	-0.00030	-0.00029
	(A1 * !A2 * B0 * !B1 * !B2 * !YN)	0.00010	0.00010	0.00010
	(A1 * !A2 * B0 * !B1 * !B2 * !YN)	0.00002	0.00002	0.00002
	(A1 * !A2 * B0 * !B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * !B1 * !B2 * !YN)	-0.00030	-0.00030	-0.00030
	(!A1 * A2 * B2 * !YN)	0.00009	0.00010	0.00010
	(!A1 * A2 * B2 * !YN)	0.00002	0.00002	0.00002
	(!A1 * A2 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * B2 * !YN)	-0.00030	-0.00030	-0.00029
	(!A1 * A2 * B1 * !B2 * !YN)	0.00009	0.00009	0.00010
	(!A1 * A2 * B1 * !B2 * !YN)	0.00002	0.00002	0.00003
	(!A1 * A2 * B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * B1 * !B2 * !YN)	-0.00030	-0.00030	-0.00029
	(!A1 * A2 * B0 * !B1 * !B2 * !YN)	0.00009	0.00010	0.00010
	(!A1 * A2 * B0 * !B1 * !B2 * !YN)	0.00002	0.00002	0.00002
	(!A1 * A2 * B0 * !B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * B0 * !B1 * !B2 * !YN)	-0.00030	-0.00030	-0.00030
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	0.00010	0.00010	0.00010
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	0.00002	0.00002	0.00002
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	-0.00030	-0.00030	-0.00030
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	0.00013	0.00013	0.00013
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	0.00001	0.00001	0.00002
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00002	-0.00002	-0.00001
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00025	-0.00024	-0.00021

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X0P7H7H	**(A0 * A2 * B2 * !YN)**	-0.00000	-0.00000	0.00000
	(A0 * A2 * B2 * !YN)	-0.00006	-0.00006	-0.00006
	(A0 * A2 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * A2 * B2 * !YN)	0.00025	0.00025	0.00025
	(A0 * A2 * B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B1 * !B2 * !YN)	-0.00006	-0.00006	-0.00006
	(A0 * A2 * B1 * !B2 * !YN)	0.00000	0.00000	0.00001
	(A0 * A2 * B1 * !B2 * !YN)	0.00025	0.00025	0.00025
	(A0 * A2 * B0 * !B1 * !B2 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * A2 * B0 * !B1 * !B2 * !YN)	-0.00006	-0.00006	-0.00006
	(A0 * A2 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * !B1 * !B2 * !YN)	0.00025	0.00025	0.00025
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00006	-0.00006	-0.00006
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00000	0.00000	0.00000
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00025	0.00025	0.00025
	(A0 * !A2 * B2 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A2 * B2 * !YN)	-0.00005	-0.00005	-0.00005
	(A0 * !A2 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B2 * !YN)	0.00025	0.00025	0.00025
	(A0 * !A2 * B1 * !B2 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A2 * B1 * !B2 * !YN)	-0.00005	-0.00005	-0.00005
	(A0 * !A2 * B1 * !B2 * !YN)	0.00000	0.00000	0.00001
	(A0 * !A2 * B1 * !B2 * !YN)	0.00025	0.00025	0.00025
	(A0 * !A2 * B0 * !B1 * !B2 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !B1 * !B2 * !YN)	-0.00005	-0.00005	-0.00005
	(A0 * !A2 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00001
	(A0 * !A2 * B0 * !B1 * !B2 * !YN)	0.00025	0.00025	0.00025
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00010	-0.00009	-0.00008
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00002	-0.00002	-0.00002
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00024	0.00025	0.00025
	(!A0 * A2 * B2 * !YN)	-0.00011	-0.00010	-0.00008
	(!A0 * A2 * B2 * !YN)	-0.00002	-0.00002	-0.00002
	(!A0 * A2 * B2 * !YN)	0.00000	0.00000	0.00000
	(!A0 * A2 * B2 * !YN)	0.00025	0.00025	0.00025
	(!A0 * A2 * B1 * !B2 * !YN)	-0.00011	-0.00010	-0.00008
	(!A0 * A2 * B1 * !B2 * !YN)	-0.00002	-0.00002	-0.00002
	(!A0 * A2 * B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(!A0 * A2 * B1 * !B2 * !YN)	0.00025	0.00025	0.00025
	(!A0 * A2 * B0 * !B1 * !B2 * !YN)	-0.00011	-0.00010	-0.00008
	(!A0 * A2 * B0 * !B1 * !B2 * !YN)	-0.00002	-0.00002	-0.00002
	(!A0 * A2 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00001
	(!A0 * A2 * B0 * !B1 * !B2 * !YN)	0.00025	0.00025	0.00026
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00010	-0.00010	-0.00008
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00000	0.00000	0.00000
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00024	0.00025	0.00025
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00013	-0.00013	-0.00013
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00020	0.00020	0.00020

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X0P7H7H	**(A0 * A2 * B2 * !YN)**	0.00000	0.00000	0.00000
	(A0 * A2 * B2 * !YN)	0.00006	0.00006	0.00006
	(A0 * A2 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B2 * !YN)	-0.00025	-0.00025	-0.00025
	(A0 * A2 * B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * A2 * B1 * !B2 * !YN)	0.00006	0.00006	0.00006
	(A0 * A2 * B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B1 * !B2 * !YN)	-0.00025	-0.00025	-0.00025
	(A0 * A2 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * !B1 * !B2 * !YN)	0.00006	0.00006	0.00006
	(A0 * A2 * B0 * !B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B0 * !B1 * !B2 * !YN)	-0.00025	-0.00025	-0.00025
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00000	0.00000	0.00000
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00006	0.00006	0.00006
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00025	-0.00025	-0.00025
	(A0 * !A2 * B2 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A2 * B2 * !YN)	0.00005	0.00005	0.00005
	(A0 * !A2 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * B2 * !YN)	-0.00025	-0.00025	-0.00025
	(A0 * !A2 * B1 * !B2 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A2 * B1 * !B2 * !YN)	0.00005	0.00005	0.00005
	(A0 * !A2 * B1 * !B2 * !YN)	-0.00000	-0.00000	0.00001
	(A0 * !A2 * B1 * !B2 * !YN)	-0.00025	-0.00025	-0.00025
	(A0 * !A2 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !B1 * !B2 * !YN)	0.00005	0.00005	0.00005
	(A0 * !A2 * B0 * !B1 * !B2 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * !A2 * B0 * !B1 * !B2 * !YN)	-0.00025	-0.00025	-0.00025
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00010	0.00010	0.00010
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00002	0.00002	0.00002
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00025	-0.00025	-0.00024
	(!A0 * A2 * B2 * !YN)	0.00011	0.00011	0.00011
	(!A0 * A2 * B2 * !YN)	0.00002	0.00002	0.00002
	(!A0 * A2 * B2 * !YN)	-0.00000	-0.00000	0.00001
	(!A0 * A2 * B2 * !YN)	-0.00025	-0.00025	-0.00025
	(!A0 * A2 * B1 * !B2 * !YN)	0.00010	0.00011	0.00011
	(!A0 * A2 * B1 * !B2 * !YN)	0.00002	0.00002	0.00002
	(!A0 * A2 * B1 * !B2 * !YN)	-0.00000	-0.00000	0.00001
	(!A0 * A2 * B1 * !B2 * !YN)	-0.00025	-0.00025	-0.00025
	(!A0 * A2 * B0 * !B1 * !B2 * !YN)	0.00010	0.00011	0.00011
	(!A0 * A2 * B0 * !B1 * !B2 * !YN)	0.00002	0.00002	0.00002
	(!A0 * A2 * B0 * !B1 * !B2 * !YN)	-0.00000	-0.00000	0.00000
	(!A0 * A2 * B0 * !B1 * !B2 * !YN)	-0.00025	-0.00025	-0.00025
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00010	0.00010	0.00010
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00002	0.00002	0.00002
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00025	-0.00025	-0.00024
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00013	0.00013	0.00014
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00020	-0.00018	-0.00016

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X0P7H7H	**(A1 * B2 * !YN)**	-0.00000	0.00000	0.00000
	(A1 * B2 * !YN)	-0.00003	-0.00003	-0.00003
	(A1 * B2 * !YN)	0.00000	0.00000	0.00001
	(A1 * B2 * !YN)	0.00031	0.00032	0.00032
	(A1 * B1 * !B2 * !YN)	-0.00000	0.00000	0.00000
	(A1 * B1 * !B2 * !YN)	-0.00003	-0.00003	-0.00003
	(A1 * B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * B1 * !B2 * !YN)	0.00031	0.00032	0.00032
	(A1 * B0 * !B1 * !B2 * !YN)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !B1 * !B2 * !YN)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * !B1 * !B2 * !YN)	0.00000	0.00001	0.00001
	(A1 * B0 * !B1 * !B2 * !YN)	0.00032	0.00032	0.00032
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00012	-0.00011	-0.00010
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00003	-0.00002	-0.00002
	(A1 * !B0 * !B1 * !B2 * YN)	0.00000	0.00000	0.00001
	(A1 * !B0 * !B1 * !B2 * YN)	0.00025	0.00026	0.00026
	(A0 * !A1 * B2 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B2 * !YN)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * B2 * !YN)	0.00000	0.00000	0.00001
	(A0 * !A1 * B2 * !YN)	0.00032	0.00032	0.00032
	(A0 * !A1 * B1 * !B2 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * !B2 * !YN)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * B1 * !B2 * !YN)	0.00000	0.00000	0.00001
	(A0 * !A1 * B1 * !B2 * !YN)	0.00031	0.00032	0.00032
	(A0 * !A1 * B0 * !B1 * !B2 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * !B2 * !YN)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * !B2 * !YN)	0.00031	0.00032	0.00032
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00011	-0.00010	-0.00009
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00025	0.00025	0.00025
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00015	-0.00015	-0.00015
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00020	0.00020	0.00020

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X0P7H7H	**(A1 * B2 * !YN)**	-0.00000	-0.00000	0.00000
	(A1 * B2 * !YN)	0.00003	0.00003	0.00004
	(A1 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * B2 * !YN)	-0.00032	-0.00032	-0.00031
	(A1 * B1 * !B2 * !YN)	-0.00000	-0.00000	0.00000
	(A1 * B1 * !B2 * !YN)	0.00003	0.00003	0.00004
	(A1 * B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * !B2 * !YN)	-0.00032	-0.00032	-0.00031
	(A1 * B0 * !B1 * !B2 * !YN)	-0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * !B2 * !YN)	0.00004	0.00004	0.00004
	(A1 * B0 * !B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * !B2 * !YN)	-0.00032	-0.00032	-0.00031
	(A1 * !B0 * !B1 * !B2 * YN)	0.00012	0.00012	0.00012
	(A1 * !B0 * !B1 * !B2 * YN)	0.00002	0.00002	0.00003
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00000	-0.00000
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00026	-0.00025	-0.00025
	(A0 * !A1 * B2 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B2 * !YN)	0.00003	0.00003	0.00003
	(A0 * !A1 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B2 * !YN)	-0.00032	-0.00032	-0.00031
	(A0 * !A1 * B1 * !B2 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * !B2 * !YN)	0.00003	0.00003	0.00003
	(A0 * !A1 * B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * !B2 * !YN)	-0.00032	-0.00032	-0.00031
	(A0 * !A1 * B0 * !B1 * !B2 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * !B2 * !YN)	0.00003	0.00003	0.00004
	(A0 * !A1 * B0 * !B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * !B1 * !B2 * !YN)	-0.00032	-0.00032	-0.00031
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00011	0.00011	0.00011
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00002	0.00002	0.00002
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00025	-0.00025	-0.00025
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00015	0.00015	0.00015
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00020	-0.00018	-0.00015

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X0P7H7H	**(A2 * B1 * B2 * !YN)**	-0.00010	-0.00009	-0.00008
	(A2 * B1 * B2 * !YN)	-0.00002	-0.00002	-0.00002
	(A2 * B1 * B2 * !YN)	0.00000	0.00000	0.00001
	(A2 * B1 * B2 * !YN)	0.00031	0.00031	0.00031
	(A2 * B1 * !B2 * !YN)	-0.00010	-0.00009	-0.00008
	(A2 * B1 * !B2 * !YN)	-0.00002	-0.00002	-0.00002
	(A2 * B1 * !B2 * !YN)	0.00000	0.00000	0.00001
	(A2 * B1 * !B2 * !YN)	0.00031	0.00031	0.00031
	(A2 * !B1 * B2 * !YN)	-0.00010	-0.00009	-0.00007
	(A2 * !B1 * B2 * !YN)	-0.00003	-0.00002	-0.00002
	(A2 * !B1 * B2 * !YN)	0.00000	0.00001	0.00001
	(A2 * !B1 * B2 * !YN)	0.00031	0.00031	0.00031
	(A1 * !A2 * B1 * B2 * !YN)	-0.00010	-0.00009	-0.00008
	(A1 * !A2 * B1 * B2 * !YN)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * B1 * B2 * !YN)	0.00000	0.00001	0.00001
	(A1 * !A2 * B1 * B2 * !YN)	0.00031	0.00031	0.00031
	(A1 * !A2 * B1 * !B2 * !YN)	-0.00010	-0.00009	-0.00008
	(A1 * !A2 * B1 * !B2 * !YN)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * B1 * !B2 * !YN)	0.00000	0.00001	0.00001
	(A1 * !A2 * B1 * !B2 * !YN)	0.00031	0.00031	0.00031
	(A1 * !A2 * !B1 * B2 * !YN)	-0.00010	-0.00009	-0.00007
	(A1 * !A2 * !B1 * B2 * !YN)	-0.00003	-0.00002	-0.00002
	(A1 * !A2 * !B1 * B2 * !YN)	0.00000	0.00000	0.00001
	(A1 * !A2 * !B1 * B2 * !YN)	0.00031	0.00031	0.00031
	(A0 * !A1 * !A2 * B1 * B2 * !YN)	-0.00010	-0.00009	-0.00008
	(A0 * !A1 * !A2 * B1 * B2 * !YN)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * !A2 * B1 * B2 * !YN)	0.00000	0.00000	0.00001
	(A0 * !A1 * !A2 * B1 * B2 * !YN)	0.00031	0.00031	0.00031
	(A0 * !A1 * !A2 * B1 * !B2 * !YN)	-0.00010	-0.00009	-0.00008
	(A0 * !A1 * !A2 * B1 * !B2 * !YN)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * !A2 * B1 * !B2 * !YN)	0.00000	0.00001	0.00001
	(A0 * !A1 * !A2 * B1 * !B2 * !YN)	0.00031	0.00031	0.00031
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	-0.00010	-0.00009	-0.00007
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	-0.00003	-0.00002	-0.00002
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	0.00000	0.00001	0.00001
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	0.00031	0.00031	0.00031
	(!A0 * !A1 * !A2 * B1 * B2 * YN)	-0.00023	-0.00022	-0.00021
	(!A0 * !A1 * !A2 * B1 * B2 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * B1 * B2 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * B1 * B2 * YN)	0.00006	0.00006	0.00007
	(!A0 * !A1 * !A2 * B1 * !B2 * YN)	-0.00023	-0.00022	-0.00021
	(!A0 * !A1 * !A2 * B1 * !B2 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * B1 * !B2 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * B1 * !B2 * YN)	0.00006	0.00007	0.00007
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	-0.00022	-0.00021	-0.00020
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	0.00006	0.00006	0.00007
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	-0.00025	-0.00025	-0.00024
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	0.00006	0.00006	0.00007

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X0P7H7H	**(A2 * B1 * B2 * !YN)**	0.00010	0.00010	0.00010
	(A2 * B1 * B2 * !YN)	0.00002	0.00002	0.00002
	(A2 * B1 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A2 * B1 * B2 * !YN)	-0.00031	-0.00031	-0.00031
	(A2 * B1 * !B2 * !YN)	0.00010	0.00010	0.00010
	(A2 * B1 * !B2 * !YN)	0.00002	0.00002	0.00002
	(A2 * B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A2 * B1 * !B2 * !YN)	-0.00031	-0.00031	-0.00031
	(A2 * !B1 * B2 * !YN)	0.00009	0.00010	0.00010
	(A2 * !B1 * B2 * !YN)	0.00002	0.00002	0.00003
	(A2 * !B1 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A2 * !B1 * B2 * !YN)	-0.00031	-0.00031	-0.00031
	(A1 * !A2 * B1 * B2 * !YN)	0.00010	0.00010	0.00010
	(A1 * !A2 * B1 * B2 * !YN)	0.00002	0.00002	0.00002
	(A1 * !A2 * B1 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B1 * B2 * !YN)	-0.00031	-0.00031	-0.00031
	(A1 * !A2 * B1 * !B2 * !YN)	0.00010	0.00010	0.00010
	(A1 * !A2 * B1 * !B2 * !YN)	0.00002	0.00002	0.00002
	(A1 * !A2 * B1 * !B2 * !YN)	-0.00001	-0.00000	-0.00000
	(A1 * !A2 * B1 * !B2 * !YN)	-0.00031	-0.00031	-0.00031
	(A1 * !A2 * !B1 * B2 * !YN)	0.00009	0.00010	0.00010
	(A1 * !A2 * !B1 * B2 * !YN)	0.00002	0.00002	0.00003
	(A1 * !A2 * !B1 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * !B1 * B2 * !YN)	-0.00031	-0.00031	-0.00031
	(A0 * !A1 * !A2 * B1 * B2 * !YN)	0.00010	0.00010	0.00010
	(A0 * !A1 * !A2 * B1 * B2 * !YN)	0.00002	0.00002	0.00002
	(A0 * !A1 * !A2 * B1 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !A2 * B1 * B2 * !YN)	-0.00031	-0.00031	-0.00031
	(A0 * !A1 * !A2 * B1 * !B2 * !YN)	0.00010	0.00010	0.00010
	(A0 * !A1 * !A2 * B1 * !B2 * !YN)	0.00002	0.00002	0.00002
	(A0 * !A1 * !A2 * B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !A2 * B1 * !B2 * !YN)	-0.00031	-0.00031	-0.00031
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	0.00009	0.00009	0.00010
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	0.00002	0.00002	0.00003
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	-0.00031	-0.00031	-0.00031
	(!A0 * !A1 * !A2 * B1 * B2 * YN)	0.00023	0.00023	0.00023
	(!A0 * !A1 * !A2 * B1 * B2 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * B1 * B2 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * B1 * B2 * YN)	-0.00007	-0.00006	-0.00006
	(!A0 * !A1 * !A2 * B1 * !B2 * YN)	0.00023	0.00023	0.00023
	(!A0 * !A1 * !A2 * B1 * !B2 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * B1 * !B2 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * B1 * !B2 * YN)	-0.00007	-0.00006	-0.00006
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	0.00022	0.00022	0.00023
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	-0.00007	-0.00006	-0.00006
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	0.00025	0.00025	0.00025
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	-0.00007	-0.00006	-0.00006

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X0P7H7H	**(A2 * B0 * B2 * !YN)**	-0.00000	-0.00000	0.00000
	(A2 * B0 * B2 * !YN)	-0.00006	-0.00006	-0.00006
	(A2 * B0 * B2 * !YN)	0.00000	0.00000	0.00000
	(A2 * B0 * B2 * !YN)	0.00027	0.00027	0.00028
	(A2 * B0 * !B2 * !YN)	-0.00000	0.00000	0.00000
	(A2 * B0 * !B2 * !YN)	-0.00005	-0.00005	-0.00005
	(A2 * B0 * !B2 * !YN)	0.00000	0.00001	0.00001
	(A2 * B0 * !B2 * !YN)	0.00027	0.00027	0.00027
	(A2 * !B0 * B2 * !YN)	-0.00011	-0.00010	-0.00008
	(A2 * !B0 * B2 * !YN)	-0.00002	-0.00002	-0.00002
	(A2 * !B0 * B2 * !YN)	0.00000	0.00001	0.00001
	(A2 * !B0 * B2 * !YN)	0.00027	0.00027	0.00028
	(A1 * !A2 * B0 * B2 * !YN)	-0.00000	-0.00000	0.00000
	(A1 * !A2 * B0 * B2 * !YN)	-0.00006	-0.00006	-0.00006
	(A1 * !A2 * B0 * B2 * !YN)	0.00000	0.00000	0.00001
	(A1 * !A2 * B0 * B2 * !YN)	0.00027	0.00028	0.00028
	(A1 * !A2 * B0 * !B2 * !YN)	-0.00000	-0.00000	0.00000
	(A1 * !A2 * B0 * !B2 * !YN)	-0.00005	-0.00005	-0.00005
	(A1 * !A2 * B0 * !B2 * !YN)	0.00000	0.00001	0.00000
	(A1 * !A2 * B0 * !B2 * !YN)	0.00027	0.00027	0.00027
	(A1 * !A2 * !B0 * B2 * !YN)	-0.00011	-0.00010	-0.00008
	(A1 * !A2 * !B0 * B2 * !YN)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * !B0 * B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * !B0 * B2 * !YN)	0.00027	0.00027	0.00028
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	-0.00006	-0.00006	-0.00006
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	0.00000	0.00000	0.00001
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	0.00027	0.00027	0.00028
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	-0.00005	-0.00005	-0.00005
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	0.00000	0.00001	0.00001
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	0.00027	0.00027	0.00027
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	-0.00011	-0.00010	-0.00008
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	0.00000	0.00001	0.00001
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	0.00027	0.00027	0.00028
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	-0.00013	-0.00013	-0.00012
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	-0.00007	-0.00006	-0.00006
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	-0.00023	-0.00022	-0.00020
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	-0.00003	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	0.00003	0.00004	0.00004
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	-0.00023	-0.00022	-0.00020
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	0.00003	0.00004	0.00004
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	-0.00025	-0.00025	-0.00025
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	0.00003	0.00004	0.00004

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X0P7H7H	**(A2 * B0 * B2 * !YN)**	0.00000	0.00000	0.00000
	(A2 * B0 * B2 * !YN)	0.00006	0.00006	0.00006
	(A2 * B0 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A2 * B0 * B2 * !YN)	-0.00027	-0.00027	-0.00027
	(A2 * B0 * !B2 * !YN)	-0.00000	0.00000	0.00000
	(A2 * B0 * !B2 * !YN)	0.00005	0.00005	0.00005
	(A2 * B0 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A2 * B0 * !B2 * !YN)	-0.00027	-0.00027	-0.00027
	(A2 * !B0 * B2 * !YN)	0.00011	0.00011	0.00011
	(A2 * !B0 * B2 * !YN)	0.00002	0.00002	0.00002
	(A2 * !B0 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A2 * !B0 * B2 * !YN)	-0.00027	-0.00027	-0.00026
	(A1 * !A2 * B0 * B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * B2 * !YN)	0.00006	0.00006	0.00006
	(A1 * !A2 * B0 * B2 * !YN)	-0.00001	-0.00000	-0.00000
	(A1 * !A2 * B0 * B2 * !YN)	-0.00027	-0.00027	-0.00027
	(A1 * !A2 * B0 * !B2 * !YN)	-0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !B2 * !YN)	0.00005	0.00005	0.00005
	(A1 * !A2 * B0 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * !B2 * !YN)	-0.00027	-0.00027	-0.00027
	(A1 * !A2 * !B0 * B2 * !YN)	0.00011	0.00011	0.00011
	(A1 * !A2 * !B0 * B2 * !YN)	0.00002	0.00002	0.00002
	(A1 * !A2 * !B0 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * !B0 * B2 * !YN)	-0.00027	-0.00027	-0.00027
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	0.00006	0.00006	0.00006
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	-0.00027	-0.00027	-0.00027
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	0.00005	0.00005	0.00005
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	-0.00001	-0.00000	-0.00000
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	-0.00027	-0.00027	-0.00027
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	0.00010	0.00011	0.00011
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	0.00002	0.00002	0.00002
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	-0.00027	-0.00027	-0.00027
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	0.00012	0.00013	0.00013
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	0.00006	0.00006	0.00007
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	0.00023	0.00023	0.00023
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	0.00002	0.00002	0.00003
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	-0.00004	-0.00004	-0.00003
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	0.00023	0.00023	0.00023
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	-0.00004	-0.00004	-0.00003
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	0.00025	0.00025	0.00025
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	-0.00004	-0.00004	-0.00003

Passive power(pJ) for B2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X0P7H7H	**(A2 * B1 * !YN)**	-0.00000	-0.00000	0.00000
	(A2 * B1 * !YN)	-0.00003	-0.00003	-0.00003
	(A2 * B1 * !YN)	0.00000	0.00001	0.00001
	(A2 * B1 * !YN)	0.00033	0.00034	0.00034
	(A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A2 * B0 * !B1 * !YN)	-0.00003	-0.00003	-0.00003
	(A2 * B0 * !B1 * !YN)	0.00000	0.00001	0.00001
	(A2 * B0 * !B1 * !YN)	0.00033	0.00034	0.00034
	(A1 * !A2 * B1 * !YN)	-0.00000	0.00000	0.00000
	(A1 * !A2 * B1 * !YN)	-0.00003	-0.00003	-0.00003
	(A1 * !A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B1 * !YN)	0.00033	0.00034	0.00034
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00003	-0.00003	-0.00003
	(A1 * !A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !B1 * !YN)	0.00033	0.00034	0.00034
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * !A2 * B1 * !YN)	0.00000	0.00001	0.00001
	(A0 * !A1 * !A2 * B1 * !YN)	0.00033	0.00034	0.00034
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00001
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	0.00033	0.00034	0.00034
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00024	-0.00023	-0.00021
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * B1 * YN)	0.00002	0.00003	0.00003
	(!A0 * !A1 * !A2 * B1 * YN)	0.00003	0.00004	0.00004
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	-0.00023	-0.00022	-0.00020
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	-0.00003	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	-0.00026	-0.00026	-0.00026
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	0.00003	0.00004	0.00004

Passive power(pJ) for B2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X0P7H7H	**(A2 * B1 * !YN)**	-0.00000	0.00000	0.00000
	(A2 * B1 * !YN)	0.00003	0.00003	0.00004
	(A2 * B1 * !YN)	-0.00001	-0.00000	-0.00000
	(A2 * B1 * !YN)	-0.00034	-0.00034	-0.00033
	(A2 * B0 * !B1 * !YN)	-0.00000	0.00000	0.00000
	(A2 * B0 * !B1 * !YN)	0.00003	0.00003	0.00003
	(A2 * B0 * !B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A2 * B0 * !B1 * !YN)	-0.00034	-0.00034	-0.00033
	(A1 * !A2 * B1 * !YN)	-0.00000	-0.00000	0.00000
	(A1 * !A2 * B1 * !YN)	0.00003	0.00003	0.00003
	(A1 * !A2 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B1 * !YN)	-0.00034	-0.00034	-0.00033
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !B1 * !YN)	0.00003	0.00003	0.00003
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00034	-0.00033	-0.00033
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B1 * !YN)	0.00003	0.00003	0.00004
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00001	-0.00000	-0.00000
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00034	-0.00034	-0.00033
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	0.00003	0.00003	0.00003
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	-0.00034	-0.00033	-0.00033
	(!A0 * !A1 * !A2 * B1 * YN)	0.00024	0.00024	0.00024
	(!A0 * !A1 * !A2 * B1 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00004	-0.00004	-0.00003
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	0.00023	0.00023	0.00023
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	0.00002	0.00002	0.00003
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	0.00026	0.00026	0.00027
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	-0.00004	-0.00004	-0.00003

OAI33X1H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI33 cell provides the logical inverted AND of two OR groups. The output (Y) is represented by the logic equation:

Truth Table

INPUT						OUTPUT
A0	A1	A2	B0	B1	B2	YN
0	0	0	x	x	x	1
0	x	1	0	0	0	1
0	x	1	0	x	1	0
0	x	1	x	1	x	0
0	x	1	1	x	x	0
x	1	x	0	0	0	1
x	1	x	0	x	1	0
x	1	x	x	1	x	0
x	1	x	1	x	x	0
1	x	x	0	0	0	1
1	x	x	0	x	1	0
1	x	x	x	1	x	0
1	x	x	1	x	x	0

Footprint

Cell Name	Area
OAI33X1H7H	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	**A1**	**A2**	**B0**	**B1**	**B2**	**YN**
OAI33X1H7H	0.00085	0.00088	0.00097	0.00095	0.00097	0.00098	0.01208

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
OAI33X1H7H	0.00000	0.01768	0.03476

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI33X1H7H	A0->YN (FR)	0.11976	0.28091	0.72007
	A1->YN (FR)	0.11745	0.28307	0.74443
	A2->YN (FR)	0.10937	0.26944	0.71932
	B0->YN (FR)	0.08531	0.24205	0.68087
	B1->YN (FR)	0.08165	0.24211	0.70360
	B2->YN (FR)	0.07180	0.22675	0.68047

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI33X1H7H	A0->YN (RF)	0.05834	0.17177	0.49643
	A1->YN (RF)	0.05590	0.16825	0.49252
	A2->YN (RF)	0.05254	0.16371	0.48771
	B0->YN (RF)	0.04784	0.15479	0.48401
	B1->YN (RF)	0.04490	0.15043	0.47919
	B2->YN (RF)	0.04080	0.14488	0.47365

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI33X1H7H	A0	0.00237	0.00240	0.00242
	A0	-0.00019	-0.00019	-0.00019
	A0	0.00025	0.00025	0.00025
	A0	-0.00004	-0.00002	0.00000
	A1	0.00220	0.00223	0.00225
	A1	-0.00014	-0.00014	-0.00013
	A1	0.00025	0.00025	0.00025
	A1	0.00001	0.00004	0.00006
	A2	0.00197	0.00203	0.00207
	A2	-0.00007	-0.00007	-0.00007
	A2	0.00025	0.00025	0.00025
	A2	-0.00001	0.00002	0.00005
	B0	0.00189	0.00194	0.00197
	B0	-0.00019	-0.00019	-0.00019
	B0	0.00009	0.00010	0.00010
	B0	-0.00001	0.00003	0.00007
	B1	0.00171	0.00175	0.00179
	B1	-0.00014	-0.00013	-0.00013
	B1	0.00009	0.00010	0.00010
	B1	0.00002	0.00006	0.00010
	B2	0.00150	0.00153	0.00157
	B2	-0.00007	-0.00007	-0.00007
	B2	0.00009	0.00010	0.00010
	B2	0.00001	0.00004	0.00008

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI33X1H7H	A0	-0.00010	-0.00009	-0.00008
	A0	0.00031	0.00031	0.00031
	A0	-0.00023	-0.00023	-0.00023
	A0	0.00228	0.00231	0.00233
	A1	-0.00011	-0.00008	-0.00007
	A1	0.00025	0.00026	0.00026
	A1	-0.00023	-0.00023	-0.00023
	A1	0.00210	0.00213	0.00215
	A2	-0.00012	-0.00008	-0.00006
	A2	0.00019	0.00019	0.00019
	A2	-0.00023	-0.00023	-0.00023
	A2	0.00195	0.00199	0.00201
	B0	-0.00013	-0.00010	-0.00008
	B0	0.00031	0.00031	0.00031
	B0	-0.00010	-0.00010	-0.00009
	B0	0.00161	0.00165	0.00168
	B1	-0.00014	-0.00010	-0.00007
	B1	0.00025	0.00025	0.00026
	B1	-0.00010	-0.00010	-0.00008
	B1	0.00142	0.00148	0.00151
	B2	-0.00012	-0.00008	-0.00006
	B2	0.00019	0.00019	0.00020
	B2	-0.00010	-0.00010	-0.00009
	B2	0.00130	0.00133	0.00136

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X1H7H	**(A1 * A2 * B2 * !YN)**	-0.00012	-0.00011	-0.00009
	(A1 * A2 * B2 * !YN)	-0.00003	-0.00003	-0.00003
	(A1 * A2 * B2 * !YN)	0.00000	0.00001	0.00001
	(A1 * A2 * B2 * !YN)	0.00031	0.00031	0.00031
	(A1 * A2 * B1 * !B2 * !YN)	-0.00012	-0.00011	-0.00009
	(A1 * A2 * B1 * !B2 * !YN)	-0.00003	-0.00003	-0.00003
	(A1 * A2 * B1 * !B2 * !YN)	0.00000	0.00000	0.00001
	(A1 * A2 * B1 * !B2 * !YN)	0.00031	0.00031	0.00031
	(A1 * A2 * B0 * !B1 * !B2 * !YN)	-0.00012	-0.00011	-0.00009
	(A1 * A2 * B0 * !B1 * !B2 * !YN)	-0.00003	-0.00003	-0.00003
	(A1 * A2 * B0 * !B1 * !B2 * !YN)	0.00000	0.00001	0.00001
	(A1 * A2 * B0 * !B1 * !B2 * !YN)	0.00031	0.00031	0.00031
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00012	-0.00011	-0.00009
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * !B1 * !B2 * YN)	0.00000	0.00001	0.00001
	(A1 * !B0 * !B1 * !B2 * YN)	0.00031	0.00031	0.00031
	(A1 * !A2 * B2 * !YN)	-0.00012	-0.00011	-0.00009
	(A1 * !A2 * B2 * !YN)	-0.00003	-0.00003	-0.00002
	(A1 * !A2 * B2 * !YN)	0.00000	0.00001	0.00001
	(A1 * !A2 * B2 * !YN)	0.00031	0.00031	0.00031
	(A1 * !A2 * B1 * !B2 * !YN)	-0.00012	-0.00011	-0.00009
	(A1 * !A2 * B1 * !B2 * !YN)	-0.00003	-0.00003	-0.00002
	(A1 * !A2 * B1 * !B2 * !YN)	0.00000	0.00001	0.00001
	(A1 * !A2 * B1 * !B2 * !YN)	0.00031	0.00031	0.00031
	(A1 * !A2 * B0 * !B1 * !B2 * !YN)	-0.00012	-0.00011	-0.00009
	(A1 * !A2 * B0 * !B1 * !B2 * !YN)	-0.00003	-0.00003	-0.00002
	(A1 * !A2 * B0 * !B1 * !B2 * !YN)	0.00000	0.00001	0.00001
	(A1 * !A2 * B0 * !B1 * !B2 * !YN)	0.00031	0.00031	0.00031
	(!A1 * A2 * B2 * !YN)	-0.00011	-0.00010	-0.00008
	(!A1 * A2 * B2 * !YN)	-0.00003	-0.00003	-0.00002
	(!A1 * A2 * B2 * !YN)	0.00000	0.00001	0.00001
	(!A1 * A2 * B2 * !YN)	0.00031	0.00031	0.00031
	(!A1 * A2 * B1 * !B2 * !YN)	-0.00011	-0.00010	-0.00008
	(!A1 * A2 * B1 * !B2 * !YN)	-0.00003	-0.00003	-0.00003
	(!A1 * A2 * B1 * !B2 * !YN)	0.00000	0.00001	0.00001
	(!A1 * A2 * B1 * !B2 * !YN)	0.00031	0.00031	0.00031
	(!A1 * A2 * B0 * !B1 * !B2 * !YN)	-0.00011	-0.00010	-0.00008
	(!A1 * A2 * B0 * !B1 * !B2 * !YN)	-0.00003	-0.00003	-0.00002
	(!A1 * A2 * B0 * !B1 * !B2 * !YN)	0.00000	0.00001	0.00001
	(!A1 * A2 * B0 * !B1 * !B2 * !YN)	0.00031	0.00031	0.00031
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	-0.00011	-0.00010	-0.00008
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	-0.00003	-0.00003	-0.00002
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	0.00000	0.00001	0.00001
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	0.00031	0.00031	0.00031
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00015	-0.00015	-0.00015
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	0.00002	0.00002	0.00002
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	0.00026	0.00026	0.00026

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X1H7H	**(A1 * A2 * B2 * !YN)**	0.00012	0.00012	0.00012
	(A1 * A2 * B2 * !YN)	0.00003	0.00003	0.00003
	(A1 * A2 * B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * A2 * B2 * !YN)	-0.00031	-0.00031	-0.00031
	(A1 * A2 * B1 * !B2 * !YN)	0.00012	0.00012	0.00012
	(A1 * A2 * B1 * !B2 * !YN)	0.00003	0.00003	0.00003
	(A1 * A2 * B1 * !B2 * !YN)	-0.00001	-0.00000	-0.00000
	(A1 * A2 * B1 * !B2 * !YN)	-0.00031	-0.00031	-0.00031
	(A1 * A2 * B0 * !B1 * !B2 * !YN)	0.00012	0.00012	0.00012
	(A1 * A2 * B0 * !B1 * !B2 * !YN)	0.00003	0.00003	0.00003
	(A1 * A2 * B0 * !B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * A2 * B0 * !B1 * !B2 * !YN)	-0.00031	-0.00031	-0.00031
	(A1 * !B0 * !B1 * !B2 * YN)	0.00012	0.00012	0.00012
	(A1 * !B0 * !B1 * !B2 * YN)	0.00003	0.00003	0.00003
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00031	-0.00031	-0.00031
	(A1 * !A2 * B2 * !YN)	0.00012	0.00012	0.00012
	(A1 * !A2 * B2 * !YN)	0.00002	0.00003	0.00003
	(A1 * !A2 * B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * B2 * !YN)	-0.00031	-0.00031	-0.00030
	(A1 * !A2 * B1 * !B2 * !YN)	0.00012	0.00012	0.00012
	(A1 * !A2 * B1 * !B2 * !YN)	0.00002	0.00003	0.00003
	(A1 * !A2 * B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * B1 * !B2 * !YN)	-0.00031	-0.00031	-0.00031
	(A1 * !A2 * B0 * !B1 * !B2 * !YN)	0.00012	0.00012	0.00012
	(A1 * !A2 * B0 * !B1 * !B2 * !YN)	0.00002	0.00003	0.00003
	(A1 * !A2 * B0 * !B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * B0 * !B1 * !B2 * !YN)	-0.00031	-0.00031	-0.00031
	(!A1 * A2 * B2 * !YN)	0.00011	0.00011	0.00011
	(!A1 * A2 * B2 * !YN)	0.00003	0.00003	0.00003
	(!A1 * A2 * B2 * !YN)	-0.00001	-0.00001	-0.00000
	(!A1 * A2 * B2 * !YN)	-0.00031	-0.00031	-0.00030
	(!A1 * A2 * B1 * !B2 * !YN)	0.00011	0.00011	0.00011
	(!A1 * A2 * B1 * !B2 * !YN)	0.00003	0.00003	0.00003
	(!A1 * A2 * B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00000
	(!A1 * A2 * B1 * !B2 * !YN)	-0.00031	-0.00031	-0.00030
	(!A1 * A2 * B0 * !B1 * !B2 * !YN)	0.00011	0.00011	0.00012
	(!A1 * A2 * B0 * !B1 * !B2 * !YN)	0.00002	0.00003	0.00003
	(!A1 * A2 * B0 * !B1 * !B2 * !YN)	-0.00001	-0.00000	0.00001
	(!A1 * A2 * B0 * !B1 * !B2 * !YN)	-0.00031	-0.00031	-0.00031
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	0.00011	0.00011	0.00012
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	0.00002	0.00003	0.00003
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00000
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	-0.00031	-0.00031	-0.00031
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	0.00015	0.00015	0.00015
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	0.00001	0.00001	0.00002
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00002	-0.00002	-0.00002
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00026	-0.00024	-0.00022

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X1H7H	**(A0 * A2 * B2 * !YN)**	-0.00000	-0.00000	0.00000
	(A0 * A2 * B2 * !YN)	-0.00007	-0.00007	-0.00007
	(A0 * A2 * B2 * !YN)	0.00000	0.00001	0.00001
	(A0 * A2 * B2 * !YN)	0.00027	0.00027	0.00027
	(A0 * A2 * B1 * !B2 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * A2 * B1 * !B2 * !YN)	-0.00007	-0.00007	-0.00007
	(A0 * A2 * B1 * !B2 * !YN)	0.00000	0.00001	0.00001
	(A0 * A2 * B1 * !B2 * !YN)	0.00027	0.00027	0.00027
	(A0 * A2 * B0 * !B1 * !B2 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * A2 * B0 * !B1 * !B2 * !YN)	-0.00007	-0.00007	-0.00007
	(A0 * A2 * B0 * !B1 * !B2 * !YN)	0.00000	0.00001	0.00001
	(A0 * A2 * B0 * !B1 * !B2 * !YN)	0.00027	0.00027	0.00027
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00008	-0.00007	-0.00007
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00000	0.00001	0.00001
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00027	0.00027	0.00027
	(A0 * !A2 * B2 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A2 * B2 * !YN)	-0.00006	-0.00006	-0.00006
	(A0 * !A2 * B2 * !YN)	0.00000	0.00001	0.00001
	(A0 * !A2 * B2 * !YN)	0.00026	0.00027	0.00027
	(A0 * !A2 * B1 * !B2 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A2 * B1 * !B2 * !YN)	-0.00006	-0.00006	-0.00006
	(A0 * !A2 * B1 * !B2 * !YN)	0.00000	0.00001	0.00001
	(A0 * !A2 * B1 * !B2 * !YN)	0.00026	0.00027	0.00027
	(A0 * !A2 * B0 * !B1 * !B2 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !B1 * !B2 * !YN)	-0.00006	-0.00006	-0.00006
	(A0 * !A2 * B0 * !B1 * !B2 * !YN)	0.00000	0.00001	0.00001
	(A0 * !A2 * B0 * !B1 * !B2 * !YN)	0.00026	0.00027	0.00027
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00012	-0.00011	-0.00009
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00003	-0.00003	-0.00003
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00000	0.00001	0.00001
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00026	0.00027	0.00027
	(!A0 * A2 * B2 * !YN)	-0.00012	-0.00011	-0.00009
	(!A0 * A2 * B2 * !YN)	-0.00003	-0.00003	-0.00002
	(!A0 * A2 * B2 * !YN)	0.00000	0.00001	0.00001
	(!A0 * A2 * B2 * !YN)	0.00027	0.00027	0.00027
	(!A0 * A2 * B1 * !B2 * !YN)	-0.00012	-0.00011	-0.00009
	(!A0 * A2 * B1 * !B2 * !YN)	-0.00003	-0.00003	-0.00002
	(!A0 * A2 * B1 * !B2 * !YN)	0.00000	0.00001	0.00001
	(!A0 * A2 * B1 * !B2 * !YN)	0.00027	0.00027	0.00027
	(!A0 * A2 * B0 * !B1 * !B2 * !YN)	-0.00012	-0.00011	-0.00009
	(!A0 * A2 * B0 * !B1 * !B2 * !YN)	-0.00003	-0.00003	-0.00002
	(!A0 * A2 * B0 * !B1 * !B2 * !YN)	0.00000	0.00001	0.00001
	(!A0 * A2 * B0 * !B1 * !B2 * !YN)	0.00027	0.00027	0.00027
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00012	-0.00011	-0.00009
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00003	-0.00003	-0.00002
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00000	0.00001	0.00001
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00026	0.00026	0.00027
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00016	-0.00015	-0.00015
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00021	0.00021	0.00021

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X1H7H	**(A0 * A2 * B2 * !YN)**	0.00000	0.00000	0.00000
	(A0 * A2 * B2 * !YN)	0.00007	0.00007	0.00007
	(A0 * A2 * B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * A2 * B2 * !YN)	-0.00027	-0.00027	-0.00027
	(A0 * A2 * B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * A2 * B1 * !B2 * !YN)	0.00007	0.00007	0.00007
	(A0 * A2 * B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * A2 * B1 * !B2 * !YN)	-0.00027	-0.00027	-0.00027
	(A0 * A2 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * !B1 * !B2 * !YN)	0.00007	0.00007	0.00007
	(A0 * A2 * B0 * !B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * A2 * B0 * !B1 * !B2 * !YN)	-0.00027	-0.00027	-0.00027
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00000	0.00000	0.00000
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00007	0.00007	0.00008
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00000
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00027	-0.00027	-0.00027
	(A0 * !A2 * B2 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * !A2 * B2 * !YN)	0.00006	0.00006	0.00006
	(A0 * !A2 * B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A2 * B2 * !YN)	-0.00027	-0.00027	-0.00026
	(A0 * !A2 * B1 * !B2 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * !A2 * B1 * !B2 * !YN)	0.00006	0.00006	0.00006
	(A0 * !A2 * B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A2 * B1 * !B2 * !YN)	-0.00027	-0.00027	-0.00026
	(A0 * !A2 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !B1 * !B2 * !YN)	0.00006	0.00006	0.00006
	(A0 * !A2 * B0 * !B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A2 * B0 * !B1 * !B2 * !YN)	-0.00027	-0.00027	-0.00026
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00012	0.00012	0.00012
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00003	0.00003	0.00003
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00027	-0.00026	-0.00026
	(!A0 * A2 * B2 * !YN)	0.00012	0.00012	0.00012
	(!A0 * A2 * B2 * !YN)	0.00002	0.00003	0.00003
	(!A0 * A2 * B2 * !YN)	-0.00001	-0.00001	-0.00000
	(!A0 * A2 * B2 * !YN)	-0.00027	-0.00026	-0.00026
	(!A0 * A2 * B1 * !B2 * !YN)	0.00012	0.00012	0.00012
	(!A0 * A2 * B1 * !B2 * !YN)	0.00002	0.00003	0.00003
	(!A0 * A2 * B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00000
	(!A0 * A2 * B1 * !B2 * !YN)	-0.00027	-0.00026	-0.00026
	(!A0 * A2 * B0 * !B1 * !B2 * !YN)	0.00012	0.00012	0.00012
	(!A0 * A2 * B0 * !B1 * !B2 * !YN)	0.00002	0.00003	0.00003
	(!A0 * A2 * B0 * !B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00000
	(!A0 * A2 * B0 * !B1 * !B2 * !YN)	-0.00027	-0.00026	-0.00026
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00012	0.00012	0.00012
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00002	0.00003	0.00003
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00000
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00027	-0.00026	-0.00026
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00015	0.00016	0.00016
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00021	-0.00019	-0.00016

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X1H7H	**(A1 * B2 * !YN)**	-0.00000	-0.00000	0.00000
	(A1 * B2 * !YN)	-0.00004	-0.00004	-0.00004
	(A1 * B2 * !YN)	0.00000	0.00001	0.00001
	(A1 * B2 * !YN)	0.00034	0.00034	0.00034
	(A1 * B1 * !B2 * !YN)	-0.00000	0.00000	0.00000
	(A1 * B1 * !B2 * !YN)	-0.00004	-0.00004	-0.00004
	(A1 * B1 * !B2 * !YN)	0.00000	0.00001	0.00001
	(A1 * B1 * !B2 * !YN)	0.00033	0.00034	0.00034
	(A1 * B0 * !B1 * !B2 * !YN)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !B1 * !B2 * !YN)	-0.00004	-0.00004	-0.00004
	(A1 * B0 * !B1 * !B2 * !YN)	0.00000	0.00001	0.00001
	(A1 * B0 * !B1 * !B2 * !YN)	0.00034	0.00034	0.00034
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00015	-0.00014	-0.00012
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * !B1 * !B2 * YN)	0.00000	0.00001	0.00001
	(A1 * !B0 * !B1 * !B2 * YN)	0.00026	0.00026	0.00026
	(A0 * !A1 * B2 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B2 * !YN)	-0.00004	-0.00004	-0.00004
	(A0 * !A1 * B2 * !YN)	0.00000	0.00001	0.00001
	(A0 * !A1 * B2 * !YN)	0.00033	0.00034	0.00034
	(A0 * !A1 * B1 * !B2 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * B1 * !B2 * !YN)	-0.00004	-0.00004	-0.00004
	(A0 * !A1 * B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * B1 * !B2 * !YN)	0.00034	0.00034	0.00034
	(A0 * !A1 * B0 * !B1 * !B2 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * !B2 * !YN)	-0.00004	-0.00004	-0.00004
	(A0 * !A1 * B0 * !B1 * !B2 * !YN)	0.00000	0.00001	0.00001
	(A0 * !A1 * B0 * !B1 * !B2 * !YN)	0.00033	0.00034	0.00034
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00014	-0.00013	-0.00011
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00000	0.00001	0.00001
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00025	0.00026	0.00026
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00019	-0.00018	-0.00018
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00021	0.00021	0.00021

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X1H7H	**(A1 * B2 * !YN)**	0.00000	0.00000	0.00000
	(A1 * B2 * !YN)	0.00004	0.00004	0.00004
	(A1 * B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * B2 * !YN)	-0.00034	-0.00034	-0.00033
	(A1 * B1 * !B2 * !YN)	-0.00000	-0.00000	0.00000
	(A1 * B1 * !B2 * !YN)	0.00004	0.00004	0.00004
	(A1 * B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * B1 * !B2 * !YN)	-0.00034	-0.00034	-0.00033
	(A1 * B0 * !B1 * !B2 * !YN)	-0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * !B2 * !YN)	0.00004	0.00004	0.00004
	(A1 * B0 * !B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !B1 * !B2 * !YN)	-0.00034	-0.00034	-0.00034
	(A1 * !B0 * !B1 * !B2 * YN)	0.00015	0.00015	0.00015
	(A1 * !B0 * !B1 * !B2 * YN)	0.00003	0.00003	0.00003
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00026	-0.00026	-0.00025
	(A0 * !A1 * B2 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B2 * !YN)	0.00004	0.00004	0.00004
	(A0 * !A1 * B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B2 * !YN)	-0.00034	-0.00034	-0.00033
	(A0 * !A1 * B1 * !B2 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * !B2 * !YN)	0.00004	0.00004	0.00004
	(A0 * !A1 * B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B1 * !B2 * !YN)	-0.00034	-0.00034	-0.00033
	(A0 * !A1 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * !B2 * !YN)	0.00004	0.00004	0.00004
	(A0 * !A1 * B0 * !B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B0 * !B1 * !B2 * !YN)	-0.00034	-0.00034	-0.00033
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00014	0.00014	0.00014
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00003	0.00003	0.00003
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00026	-0.00026	-0.00025
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00019	0.00019	0.00019
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00021	-0.00019	-0.00016

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X1H7H	**(A2 * B1 * B2 * !YN)**	-0.00012	-0.00011	-0.00009
	(A2 * B1 * B2 * !YN)	-0.00003	-0.00003	-0.00002
	(A2 * B1 * B2 * !YN)	0.00000	0.00001	0.00001
	(A2 * B1 * B2 * !YN)	0.00032	0.00032	0.00032
	(A2 * B1 * !B2 * !YN)	-0.00012	-0.00011	-0.00009
	(A2 * B1 * !B2 * !YN)	-0.00003	-0.00003	-0.00002
	(A2 * B1 * !B2 * !YN)	0.00000	0.00001	0.00001
	(A2 * B1 * !B2 * !YN)	0.00032	0.00032	0.00032
	(A2 * !B1 * B2 * !YN)	-0.00011	-0.00010	-0.00008
	(A2 * !B1 * B2 * !YN)	-0.00003	-0.00003	-0.00002
	(A2 * !B1 * B2 * !YN)	0.00000	0.00001	0.00001
	(A2 * !B1 * B2 * !YN)	0.00032	0.00032	0.00032
	(A1 * !A2 * B1 * B2 * !YN)	-0.00012	-0.00011	-0.00009
	(A1 * !A2 * B1 * B2 * !YN)	-0.00003	-0.00003	-0.00002
	(A1 * !A2 * B1 * B2 * !YN)	0.00000	0.00001	0.00001
	(A1 * !A2 * B1 * B2 * !YN)	0.00032	0.00032	0.00032
	(A1 * !A2 * B1 * !B2 * !YN)	-0.00012	-0.00011	-0.00009
	(A1 * !A2 * B1 * !B2 * !YN)	-0.00003	-0.00003	-0.00002
	(A1 * !A2 * B1 * !B2 * !YN)	0.00000	0.00001	0.00001
	(A1 * !A2 * B1 * !B2 * !YN)	0.00032	0.00032	0.00032
	(A1 * !A2 * !B1 * B2 * !YN)	-0.00011	-0.00010	-0.00008
	(A1 * !A2 * !B1 * B2 * !YN)	-0.00003	-0.00003	-0.00002
	(A1 * !A2 * !B1 * B2 * !YN)	0.00000	0.00001	0.00001
	(A1 * !A2 * !B1 * B2 * !YN)	0.00032	0.00032	0.00032
	(A0 * !A1 * !A2 * B1 * B2 * !YN)	-0.00012	-0.00011	-0.00009
	(A0 * !A1 * !A2 * B1 * B2 * !YN)	-0.00003	-0.00003	-0.00002
	(A0 * !A1 * !A2 * B1 * B2 * !YN)	0.00000	0.00001	0.00001
	(A0 * !A1 * !A2 * B1 * B2 * !YN)	0.00032	0.00032	0.00032
	(A0 * !A1 * !A2 * B1 * !B2 * !YN)	-0.00012	-0.00011	-0.00009
	(A0 * !A1 * !A2 * B1 * !B2 * !YN)	-0.00003	-0.00003	-0.00002
	(A0 * !A1 * !A2 * B1 * !B2 * !YN)	0.00000	0.00001	0.00001
	(A0 * !A1 * !A2 * B1 * !B2 * !YN)	0.00032	0.00032	0.00032
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	-0.00011	-0.00010	-0.00009
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	-0.00003	-0.00003	-0.00002
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	0.00032	0.00032	0.00032
	(!A0 * !A1 * !A2 * B1 * B2 * YN)	-0.00025	-0.00024	-0.00022
	(!A0 * !A1 * !A2 * B1 * B2 * YN)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * !A2 * B1 * B2 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * B1 * B2 * YN)	0.00007	0.00007	0.00007
	(!A0 * !A1 * !A2 * B1 * !B2 * YN)	-0.00025	-0.00024	-0.00022
	(!A0 * !A1 * !A2 * B1 * !B2 * YN)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * !A2 * B1 * !B2 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * B1 * !B2 * YN)	0.00007	0.00007	0.00007
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	-0.00024	-0.00023	-0.00021
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	0.00007	0.00007	0.00007
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	-0.00027	-0.00027	-0.00026
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	0.00007	0.00007	0.00007

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X1H7H	**(A2 * B1 * B2 * !YN)**	0.00012	0.00012	0.00012
	(A2 * B1 * B2 * !YN)	0.00003	0.00003	0.00003
	(A2 * B1 * B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A2 * B1 * B2 * !YN)	-0.00032	-0.00032	-0.00032
	(A2 * B1 * !B2 * !YN)	0.00012	0.00012	0.00012
	(A2 * B1 * !B2 * !YN)	0.00002	0.00003	0.00003
	(A2 * B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A2 * B1 * !B2 * !YN)	-0.00032	-0.00032	-0.00032
	(A2 * !B1 * B2 * !YN)	0.00011	0.00011	0.00012
	(A2 * !B1 * B2 * !YN)	0.00002	0.00003	0.00003
	(A2 * !B1 * B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A2 * !B1 * B2 * !YN)	-0.00032	-0.00032	-0.00032
	(A1 * !A2 * B1 * B2 * !YN)	0.00012	0.00012	0.00012
	(A1 * !A2 * B1 * B2 * !YN)	0.00003	0.00003	0.00003
	(A1 * !A2 * B1 * B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * B1 * B2 * !YN)	-0.00032	-0.00032	-0.00032
	(A1 * !A2 * B1 * !B2 * !YN)	0.00012	0.00012	0.00012
	(A1 * !A2 * B1 * !B2 * !YN)	0.00002	0.00003	0.00003
	(A1 * !A2 * B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * B1 * !B2 * !YN)	-0.00032	-0.00032	-0.00032
	(A1 * !A2 * !B1 * B2 * !YN)	0.00011	0.00011	0.00011
	(A1 * !A2 * !B1 * B2 * !YN)	0.00003	0.00003	0.00003
	(A1 * !A2 * !B1 * B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * !B1 * B2 * !YN)	-0.00032	-0.00032	-0.00032
	(A0 * !A1 * !A2 * B1 * B2 * !YN)	0.00012	0.00012	0.00012
	(A0 * !A1 * !A2 * B1 * B2 * !YN)	0.00003	0.00003	0.00003
	(A0 * !A1 * !A2 * B1 * B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !A2 * B1 * B2 * !YN)	-0.00032	-0.00032	-0.00032
	(A0 * !A1 * !A2 * B1 * !B2 * !YN)	0.00012	0.00012	0.00012
	(A0 * !A1 * !A2 * B1 * !B2 * !YN)	0.00002	0.00003	0.00003
	(A0 * !A1 * !A2 * B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !A2 * B1 * !B2 * !YN)	-0.00032	-0.00032	-0.00032
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	0.00011	0.00011	0.00011
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	0.00002	0.00003	0.00003
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	-0.00032	-0.00032	-0.00032
	(!A0 * !A1 * !A2 * B1 * B2 * YN)	0.00024	0.00025	0.00025
	(!A0 * !A1 * !A2 * B1 * B2 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * B1 * B2 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * B1 * B2 * YN)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * !A2 * B1 * !B2 * YN)	0.00024	0.00025	0.00025
	(!A0 * !A1 * !A2 * B1 * !B2 * YN)	0.00002	0.00003	0.00003
	(!A0 * !A1 * !A2 * B1 * !B2 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * B1 * !B2 * YN)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	0.00024	0.00024	0.00024
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	0.00002	0.00003	0.00003
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	-0.00007	-0.00007	-0.00006
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	0.00027	0.00027	0.00027
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X1H7H	**(A2 * B0 * B2 * !YN)**	-0.00000	-0.00000	0.00000
	(A2 * B0 * B2 * !YN)	-0.00008	-0.00008	-0.00007
	(A2 * B0 * B2 * !YN)	0.00000	0.00001	0.00001
	(A2 * B0 * B2 * !YN)	0.00029	0.00029	0.00029
	(A2 * B0 * !B2 * !YN)	-0.00000	0.00000	0.00000
	(A2 * B0 * !B2 * !YN)	-0.00006	-0.00006	-0.00006
	(A2 * B0 * !B2 * !YN)	0.00000	0.00001	0.00001
	(A2 * B0 * !B2 * !YN)	0.00029	0.00029	0.00029
	(A2 * !B0 * B2 * !YN)	-0.00013	-0.00012	-0.00010
	(A2 * !B0 * B2 * !YN)	-0.00003	-0.00003	-0.00002
	(A2 * !B0 * B2 * !YN)	0.00000	0.00001	0.00001
	(A2 * !B0 * B2 * !YN)	0.00029	0.00029	0.00029
	(A1 * !A2 * B0 * B2 * !YN)	-0.00000	-0.00000	0.00000
	(A1 * !A2 * B0 * B2 * !YN)	-0.00008	-0.00008	-0.00007
	(A1 * !A2 * B0 * B2 * !YN)	0.00000	0.00001	0.00001
	(A1 * !A2 * B0 * B2 * !YN)	0.00029	0.00029	0.00029
	(A1 * !A2 * B0 * !B2 * !YN)	-0.00000	-0.00000	0.00000
	(A1 * !A2 * B0 * !B2 * !YN)	-0.00006	-0.00006	-0.00006
	(A1 * !A2 * B0 * !B2 * !YN)	0.00000	0.00001	0.00001
	(A1 * !A2 * B0 * !B2 * !YN)	0.00029	0.00029	0.00029
	(A1 * !A2 * !B0 * B2 * !YN)	-0.00013	-0.00012	-0.00010
	(A1 * !A2 * !B0 * B2 * !YN)	-0.00003	-0.00003	-0.00002
	(A1 * !A2 * !B0 * B2 * !YN)	0.00000	0.00001	0.00001
	(A1 * !A2 * !B0 * B2 * !YN)	0.00029	0.00029	0.00029
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	-0.00008	-0.00008	-0.00007
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	0.00000	0.00001	0.00001
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	0.00029	0.00029	0.00029
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	-0.00006	-0.00006	-0.00006
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	0.00000	0.00001	0.00001
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	0.00029	0.00029	0.00029
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	-0.00013	-0.00012	-0.00010
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	0.00000	0.00001	0.00001
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	0.00029	0.00029	0.00029
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	-0.00013	-0.00013	-0.00012
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	-0.00008	-0.00008	-0.00007
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	-0.00025	-0.00024	-0.00022
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	-0.00025	-0.00024	-0.00022
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	-0.00028	-0.00028	-0.00027
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	0.00004	0.00004	0.00004

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X1H7H	**(A2 * B0 * B2 * !YN)**	0.00000	0.00000	0.00000
	(A2 * B0 * B2 * !YN)	0.00007	0.00008	0.00008
	(A2 * B0 * B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A2 * B0 * B2 * !YN)	-0.00029	-0.00029	-0.00029
	(A2 * B0 * !B2 * !YN)	-0.00000	0.00000	0.00000
	(A2 * B0 * !B2 * !YN)	0.00006	0.00006	0.00007
	(A2 * B0 * !B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A2 * B0 * !B2 * !YN)	-0.00029	-0.00029	-0.00029
	(A2 * !B0 * B2 * !YN)	0.00013	0.00013	0.00013
	(A2 * !B0 * B2 * !YN)	0.00002	0.00003	0.00003
	(A2 * !B0 * B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A2 * !B0 * B2 * !YN)	-0.00029	-0.00028	-0.00028
	(A1 * !A2 * B0 * B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * B2 * !YN)	0.00007	0.00008	0.00008
	(A1 * !A2 * B0 * B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * B0 * B2 * !YN)	-0.00029	-0.00029	-0.00029
	(A1 * !A2 * B0 * !B2 * !YN)	-0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !B2 * !YN)	0.00006	0.00006	0.00007
	(A1 * !A2 * B0 * !B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * B0 * !B2 * !YN)	-0.00029	-0.00029	-0.00029
	(A1 * !A2 * !B0 * B2 * !YN)	0.00013	0.00013	0.00013
	(A1 * !A2 * !B0 * B2 * !YN)	0.00002	0.00003	0.00003
	(A1 * !A2 * !B0 * B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * !B0 * B2 * !YN)	-0.00029	-0.00028	-0.00028
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	0.00007	0.00008	0.00008
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	-0.00029	-0.00029	-0.00028
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	0.00006	0.00006	0.00007
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	-0.00029	-0.00029	-0.00028
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	0.00013	0.00013	0.00013
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	0.00003	0.00003	0.00003
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	-0.00029	-0.00028	-0.00028
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	0.00012	0.00013	0.00013
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	0.00007	0.00008	0.00008
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	0.00025	0.00025	0.00025
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	0.00025	0.00025	0.00025
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	0.00002	0.00003	0.00003
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	0.00028	0.00028	0.00028
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	-0.00004	-0.00004	-0.00004

Passive power(pJ) for B2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X1H7H	**(A2 * B1 * !YN)**	-0.00000	0.00000	0.00000
	(A2 * B1 * !YN)	-0.00004	-0.00004	-0.00004
	(A2 * B1 * !YN)	0.00000	0.00001	0.00001
	(A2 * B1 * !YN)	0.00035	0.00035	0.00035
	(A2 * B0 * !B1 * !YN)	-0.00000	-0.00000	0.00000
	(A2 * B0 * !B1 * !YN)	-0.00004	-0.00004	-0.00004
	(A2 * B0 * !B1 * !YN)	0.00000	0.00001	0.00001
	(A2 * B0 * !B1 * !YN)	0.00035	0.00035	0.00035
	(A1 * !A2 * B1 * !YN)	-0.00000	-0.00000	0.00000
	(A1 * !A2 * B1 * !YN)	-0.00004	-0.00004	-0.00004
	(A1 * !A2 * B1 * !YN)	0.00000	0.00001	0.00001
	(A1 * !A2 * B1 * !YN)	0.00035	0.00035	0.00035
	(A1 * !A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00004	-0.00004	-0.00004
	(A1 * !A2 * B0 * !B1 * !YN)	0.00000	0.00001	0.00001
	(A1 * !A2 * B0 * !B1 * !YN)	0.00035	0.00035	0.00035
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00004	-0.00004	-0.00004
	(A0 * !A1 * !A2 * B1 * !YN)	0.00000	0.00001	0.00001
	(A0 * !A1 * !A2 * B1 * !YN)	0.00035	0.00035	0.00035
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	-0.00004	-0.00004	-0.00004
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	0.00035	0.00035	0.00035
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00024	-0.00023	-0.00021
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * B1 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * B1 * YN)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	-0.00023	-0.00021	-0.00020
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	-0.00027	-0.00027	-0.00026
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	0.00003	0.00003	0.00004
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	0.00004	0.00004	0.00004

Passive power(pJ) for B2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X1H7H	**(A2 * B1 * !YN)**	-0.00000	-0.00000	0.00000
	(A2 * B1 * !YN)	0.00004	0.00004	0.00004
	(A2 * B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A2 * B1 * !YN)	-0.00035	-0.00035	-0.00035
	(A2 * B0 * !B1 * !YN)	-0.00000	0.00000	0.00000
	(A2 * B0 * !B1 * !YN)	0.00004	0.00004	0.00004
	(A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A2 * B0 * !B1 * !YN)	-0.00035	-0.00035	-0.00035
	(A1 * !A2 * B1 * !YN)	-0.00000	0.00000	0.00000
	(A1 * !A2 * B1 * !YN)	0.00004	0.00004	0.00004
	(A1 * !A2 * B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * B1 * !YN)	-0.00035	-0.00035	-0.00035
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !B1 * !YN)	0.00004	0.00004	0.00004
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00035	-0.00035	-0.00035
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B1 * !YN)	0.00004	0.00004	0.00004
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00035	-0.00035	-0.00035
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	0.00004	0.00004	0.00004
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	-0.00035	-0.00035	-0.00035
	(!A0 * !A1 * !A2 * B1 * YN)	0.00024	0.00024	0.00024
	(!A0 * !A1 * !A2 * B1 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	0.00023	0.00023	0.00023
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	0.00002	0.00003	0.00003
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	0.00027	0.00027	0.00027
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	-0.00004	-0.00004	-0.00004

OAI33X1P4H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI33 cell provides the logical inverted AND of two OR groups. The output (Y) is represented by the logic equation:

Truth Table

INPUT						OUTPUT
A0	A1	A2	B0	B1	B2	YN
0	0	0	x	x	x	1
0	x	1	0	0	0	1
0	x	1	0	x	1	0
0	x	1	x	1	x	0
0	x	1	1	x	x	0
x	1	x	0	0	0	1
x	1	x	0	x	1	0
x	1	x	x	1	x	0
x	1	x	1	x	x	0
1	x	x	0	0	0	1
1	x	x	0	x	1	0
1	x	x	x	1	x	0
1	x	x	1	x	x	0

Footprint

Cell Name	Area
OAI33X1P4H7H	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	**A1**	**A2**	**B0**	**B1**	**B2**	**YN**
OAI33X1P4H7H	0.00091	0.00095	0.00104	0.00111	0.00104	0.00111	0.01383

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
OAI33X1P4H7H	0.00000	0.02195	0.05179

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI33X1P4H7H	A0->YN (FR)	0.11356	0.27652	0.72110
	A1->YN (FR)	0.11074	0.27814	0.74498
	A2->YN (FR)	0.10277	0.26448	0.72009
	B0->YN (FR)	0.08263	0.24095	0.68497
	B1->YN (FR)	0.07687	0.23906	0.70602
	B2->YN (FR)	0.06878	0.22523	0.68395

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI33X1P4H7H	A0->YN (RF)	0.05633	0.17103	0.50079
	A1->YN (RF)	0.05379	0.16730	0.49668
	A2->YN (RF)	0.05020	0.16261	0.49176
	B0->YN (RF)	0.04710	0.15519	0.48828
	B1->YN (RF)	0.04319	0.14981	0.48245
	B2->YN (RF)	0.03976	0.14491	0.47778

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI33X1P4H7H	A0	0.00262	0.00265	0.00267
	A0	-0.00022	-0.00022	-0.00022
	A0	0.00029	0.00029	0.00029
	A0	-0.00007	-0.00004	-0.00002
	A1	0.00242	0.00245	0.00247
	A1	-0.00016	-0.00016	-0.00016
	A1	0.00029	0.00029	0.00029
	A1	-0.00002	0.00001	0.00003
	A2	0.00216	0.00222	0.00226
	A2	-0.00009	-0.00008	-0.00008
	A2	0.00028	0.00029	0.00029
	A2	-0.00003	0.00001	0.00004
	B0	0.00212	0.00217	0.00221
	B0	-0.00022	-0.00022	-0.00022
	B0	0.00011	0.00011	0.00012
	B0	-0.00004	0.00001	0.00006
	B1	0.00189	0.00193	0.00197
	B1	-0.00016	-0.00016	-0.00015
	B1	0.00011	0.00011	0.00012
	B1	0.00001	0.00005	0.00008
	B2	0.00166	0.00171	0.00176
	B2	-0.00009	-0.00008	-0.00007
	B2	0.00011	0.00011	0.00012
	B2	-0.00002	0.00002	0.00007

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI33X1P4H7H	A0	-0.00012	-0.00010	-0.00009
	A0	0.00035	0.00036	0.00036
	A0	-0.00027	-0.00027	-0.00027
	A0	0.00251	0.00255	0.00257
	A1	-0.00012	-0.00009	-0.00008
	A1	0.00029	0.00030	0.00030
	A1	-0.00027	-0.00027	-0.00027
	A1	0.00233	0.00236	0.00237
	A2	-0.00013	-0.00009	-0.00006
	A2	0.00022	0.00022	0.00022
	A2	-0.00027	-0.00027	-0.00027
	A2	0.00215	0.00219	0.00221
	B0	-0.00015	-0.00012	-0.00009
	B0	0.00036	0.00036	0.00036
	B0	-0.00011	-0.00011	-0.00010
	B0	0.00181	0.00186	0.00190
	B1	-0.00015	-0.00011	-0.00009
	B1	0.00029	0.00030	0.00030
	B1	-0.00011	-0.00011	-0.00010
	B1	0.00159	0.00165	0.00168
	B2	-0.00014	-0.00010	-0.00006
	B2	0.00022	0.00022	0.00022
	B2	-0.00011	-0.00011	-0.00010
	B2	0.00147	0.00151	0.00154

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X1P4H7H	**(A1 * A2 * B2 * !YN)**	-0.00014	-0.00013	-0.00011
	(A1 * A2 * B2 * !YN)	-0.00003	-0.00003	-0.00003
	(A1 * A2 * B2 * !YN)	0.00000	0.00001	0.00001
	(A1 * A2 * B2 * !YN)	0.00032	0.00032	0.00033
	(A1 * A2 * B1 * !B2 * !YN)	-0.00014	-0.00013	-0.00011
	(A1 * A2 * B1 * !B2 * !YN)	-0.00003	-0.00003	-0.00003
	(A1 * A2 * B1 * !B2 * !YN)	0.00000	0.00001	0.00001
	(A1 * A2 * B1 * !B2 * !YN)	0.00032	0.00032	0.00033
	(A1 * A2 * B0 * !B1 * !B2 * !YN)	-0.00014	-0.00012	-0.00011
	(A1 * A2 * B0 * !B1 * !B2 * !YN)	-0.00003	-0.00003	-0.00003
	(A1 * A2 * B0 * !B1 * !B2 * !YN)	0.00000	0.00001	0.00001
	(A1 * A2 * B0 * !B1 * !B2 * !YN)	0.00032	0.00032	0.00033
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00014	-0.00012	-0.00011
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * !B1 * !B2 * YN)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * !B2 * YN)	0.00032	0.00032	0.00033
	(A1 * !A2 * B2 * !YN)	-0.00014	-0.00013	-0.00011
	(A1 * !A2 * B2 * !YN)	-0.00003	-0.00003	-0.00003
	(A1 * !A2 * B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B2 * !YN)	0.00032	0.00032	0.00033
	(A1 * !A2 * B1 * !B2 * !YN)	-0.00014	-0.00013	-0.00011
	(A1 * !A2 * B1 * !B2 * !YN)	-0.00003	-0.00003	-0.00003
	(A1 * !A2 * B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B1 * !B2 * !YN)	0.00032	0.00032	0.00033
	(A1 * !A2 * B0 * !B1 * !B2 * !YN)	-0.00014	-0.00013	-0.00010
	(A1 * !A2 * B0 * !B1 * !B2 * !YN)	-0.00003	-0.00003	-0.00003
	(A1 * !A2 * B0 * !B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * !B1 * !B2 * !YN)	0.00032	0.00032	0.00033
	(!A1 * A2 * B2 * !YN)	-0.00013	-0.00012	-0.00010
	(!A1 * A2 * B2 * !YN)	-0.00003	-0.00003	-0.00003
	(!A1 * A2 * B2 * !YN)	0.00001	0.00001	0.00001
	(!A1 * A2 * B2 * !YN)	0.00032	0.00032	0.00033
	(!A1 * A2 * B1 * !B2 * !YN)	-0.00013	-0.00012	-0.00010
	(!A1 * A2 * B1 * !B2 * !YN)	-0.00004	-0.00003	-0.00003
	(!A1 * A2 * B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(!A1 * A2 * B1 * !B2 * !YN)	0.00032	0.00032	0.00033
	(!A1 * A2 * B0 * !B1 * !B2 * !YN)	-0.00013	-0.00012	-0.00010
	(!A1 * A2 * B0 * !B1 * !B2 * !YN)	-0.00003	-0.00003	-0.00002
	(!A1 * A2 * B0 * !B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(!A1 * A2 * B0 * !B1 * !B2 * !YN)	0.00032	0.00032	0.00033
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	-0.00013	-0.00012	-0.00010
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	-0.00003	-0.00003	-0.00003
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	0.00032	0.00032	0.00033
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00017	-0.00017	-0.00017
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	0.00002	0.00002	0.00002
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	0.00027	0.00028	0.00028

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X1P4H7H	**(A1 * A2 * B2 * !YN)**	0.00013	0.00014	0.00014
	(A1 * A2 * B2 * !YN)	0.00003	0.00003	0.00003
	(A1 * A2 * B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * A2 * B2 * !YN)	-0.00033	-0.00032	-0.00032
	(A1 * A2 * B1 * !B2 * !YN)	0.00013	0.00014	0.00014
	(A1 * A2 * B1 * !B2 * !YN)	0.00003	0.00003	0.00003
	(A1 * A2 * B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * A2 * B1 * !B2 * !YN)	-0.00033	-0.00032	-0.00032
	(A1 * A2 * B0 * !B1 * !B2 * !YN)	0.00013	0.00014	0.00014
	(A1 * A2 * B0 * !B1 * !B2 * !YN)	0.00003	0.00003	0.00003
	(A1 * A2 * B0 * !B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * A2 * B0 * !B1 * !B2 * !YN)	-0.00033	-0.00032	-0.00032
	(A1 * !B0 * !B1 * !B2 * YN)	0.00013	0.00014	0.00014
	(A1 * !B0 * !B1 * !B2 * YN)	0.00003	0.00003	0.00003
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00033	-0.00032	-0.00032
	(A1 * !A2 * B2 * !YN)	0.00013	0.00014	0.00014
	(A1 * !A2 * B2 * !YN)	0.00003	0.00003	0.00003
	(A1 * !A2 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B2 * !YN)	-0.00033	-0.00032	-0.00032
	(A1 * !A2 * B1 * !B2 * !YN)	0.00013	0.00014	0.00014
	(A1 * !A2 * B1 * !B2 * !YN)	0.00003	0.00003	0.00003
	(A1 * !A2 * B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B1 * !B2 * !YN)	-0.00033	-0.00032	-0.00032
	(A1 * !A2 * B0 * !B1 * !B2 * !YN)	0.00013	0.00014	0.00014
	(A1 * !A2 * B0 * !B1 * !B2 * !YN)	0.00003	0.00003	0.00003
	(A1 * !A2 * B0 * !B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * !B1 * !B2 * !YN)	-0.00033	-0.00032	-0.00032
	(!A1 * A2 * B2 * !YN)	0.00013	0.00013	0.00013
	(!A1 * A2 * B2 * !YN)	0.00003	0.00003	0.00003
	(!A1 * A2 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * B2 * !YN)	-0.00033	-0.00032	-0.00032
	(!A1 * A2 * B1 * !B2 * !YN)	0.00013	0.00013	0.00013
	(!A1 * A2 * B1 * !B2 * !YN)	0.00003	0.00003	0.00004
	(!A1 * A2 * B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * B1 * !B2 * !YN)	-0.00033	-0.00032	-0.00032
	(!A1 * A2 * B0 * !B1 * !B2 * !YN)	0.00013	0.00013	0.00013
	(!A1 * A2 * B0 * !B1 * !B2 * !YN)	0.00002	0.00003	0.00003
	(!A1 * A2 * B0 * !B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * B0 * !B1 * !B2 * !YN)	-0.00033	-0.00032	-0.00032
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	0.00013	0.00013	0.00013
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	0.00003	0.00003	0.00003
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	-0.00033	-0.00032	-0.00032
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	0.00017	0.00017	0.00017
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00002	-0.00002	-0.00002
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00027	-0.00026	-0.00023

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X1P4H7H	**(A0 * A2 * B2 * !YN)**	-0.00000	-0.00000	0.00000
	(A0 * A2 * B2 * !YN)	-0.00009	-0.00009	-0.00008
	(A0 * A2 * B2 * !YN)	0.00000	0.00001	0.00001
	(A0 * A2 * B2 * !YN)	0.00028	0.00028	0.00029
	(A0 * A2 * B1 * !B2 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * A2 * B1 * !B2 * !YN)	-0.00009	-0.00009	-0.00008
	(A0 * A2 * B1 * !B2 * !YN)	0.00000	0.00001	0.00001
	(A0 * A2 * B1 * !B2 * !YN)	0.00028	0.00028	0.00029
	(A0 * A2 * B0 * !B1 * !B2 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * A2 * B0 * !B1 * !B2 * !YN)	-0.00009	-0.00009	-0.00008
	(A0 * A2 * B0 * !B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(A0 * A2 * B0 * !B1 * !B2 * !YN)	0.00028	0.00028	0.00029
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00009	-0.00009	-0.00009
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00001	0.00001	0.00001
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00028	0.00028	0.00028
	(A0 * !A2 * B2 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A2 * B2 * !YN)	-0.00007	-0.00007	-0.00007
	(A0 * !A2 * B2 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A2 * B2 * !YN)	0.00028	0.00028	0.00028
	(A0 * !A2 * B1 * !B2 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A2 * B1 * !B2 * !YN)	-0.00007	-0.00007	-0.00007
	(A0 * !A2 * B1 * !B2 * !YN)	0.00000	0.00001	0.00001
	(A0 * !A2 * B1 * !B2 * !YN)	0.00028	0.00028	0.00028
	(A0 * !A2 * B0 * !B1 * !B2 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * !A2 * B0 * !B1 * !B2 * !YN)	-0.00007	-0.00007	-0.00007
	(A0 * !A2 * B0 * !B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A2 * B0 * !B1 * !B2 * !YN)	0.00028	0.00028	0.00028
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00014	-0.00013	-0.00011
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00003	-0.00003	-0.00003
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00000	0.00001	0.00001
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00028	0.00028	0.00028
	(!A0 * A2 * B2 * !YN)	-0.00014	-0.00013	-0.00011
	(!A0 * A2 * B2 * !YN)	-0.00003	-0.00003	-0.00003
	(!A0 * A2 * B2 * !YN)	0.00000	0.00001	0.00001
	(!A0 * A2 * B2 * !YN)	0.00028	0.00028	0.00029
	(!A0 * A2 * B1 * !B2 * !YN)	-0.00014	-0.00013	-0.00011
	(!A0 * A2 * B1 * !B2 * !YN)	-0.00003	-0.00003	-0.00003
	(!A0 * A2 * B1 * !B2 * !YN)	0.00000	0.00001	0.00001
	(!A0 * A2 * B1 * !B2 * !YN)	0.00028	0.00028	0.00029
	(!A0 * A2 * B0 * !B1 * !B2 * !YN)	-0.00014	-0.00013	-0.00011
	(!A0 * A2 * B0 * !B1 * !B2 * !YN)	-0.00003	-0.00003	-0.00003
	(!A0 * A2 * B0 * !B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(!A0 * A2 * B0 * !B1 * !B2 * !YN)	0.00028	0.00028	0.00029
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00014	-0.00013	-0.00011
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00001	0.00001	0.00001
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00028	0.00028	0.00028
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00018	-0.00018	-0.00018
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00002	-0.00001	-0.00001
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00022	0.00022	0.00023

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X1P4H7H	**(A0 * A2 * B2 * !YN)**	0.00000	0.00000	0.00000
	(A0 * A2 * B2 * !YN)	0.00008	0.00009	0.00009
	(A0 * A2 * B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * A2 * B2 * !YN)	-0.00028	-0.00028	-0.00028
	(A0 * A2 * B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * A2 * B1 * !B2 * !YN)	0.00008	0.00009	0.00009
	(A0 * A2 * B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * A2 * B1 * !B2 * !YN)	-0.00028	-0.00028	-0.00028
	(A0 * A2 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * !B1 * !B2 * !YN)	0.00008	0.00009	0.00009
	(A0 * A2 * B0 * !B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * A2 * B0 * !B1 * !B2 * !YN)	-0.00028	-0.00028	-0.00028
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00000	0.00000	0.00000
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00009	0.00009	0.00009
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00028	-0.00028	-0.00028
	(A0 * !A2 * B2 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * !A2 * B2 * !YN)	0.00007	0.00007	0.00007
	(A0 * !A2 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * B2 * !YN)	-0.00028	-0.00028	-0.00028
	(A0 * !A2 * B1 * !B2 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * !A2 * B1 * !B2 * !YN)	0.00007	0.00007	0.00007
	(A0 * !A2 * B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A2 * B1 * !B2 * !YN)	-0.00028	-0.00028	-0.00028
	(A0 * !A2 * B0 * !B1 * !B2 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !B1 * !B2 * !YN)	0.00007	0.00007	0.00007
	(A0 * !A2 * B0 * !B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * B0 * !B1 * !B2 * !YN)	-0.00028	-0.00028	-0.00028
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00014	0.00014	0.00014
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00003	0.00003	0.00003
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00028	-0.00028	-0.00027
	(!A0 * A2 * B2 * !YN)	0.00014	0.00014	0.00014
	(!A0 * A2 * B2 * !YN)	0.00003	0.00003	0.00003
	(!A0 * A2 * B2 * !YN)	-0.00001	-0.00001	-0.00000
	(!A0 * A2 * B2 * !YN)	-0.00028	-0.00028	-0.00028
	(!A0 * A2 * B1 * !B2 * !YN)	0.00014	0.00014	0.00014
	(!A0 * A2 * B1 * !B2 * !YN)	0.00003	0.00003	0.00003
	(!A0 * A2 * B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00000
	(!A0 * A2 * B1 * !B2 * !YN)	-0.00028	-0.00028	-0.00028
	(!A0 * A2 * B0 * !B1 * !B2 * !YN)	0.00014	0.00014	0.00014
	(!A0 * A2 * B0 * !B1 * !B2 * !YN)	0.00003	0.00003	0.00003
	(!A0 * A2 * B0 * !B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B0 * !B1 * !B2 * !YN)	-0.00028	-0.00028	-0.00028
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00014	0.00014	0.00014
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00003	0.00003	0.00003
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00000
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00028	-0.00028	-0.00028
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00018	0.00018	0.00018
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00001	0.00001	0.00002
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00022	-0.00020	-0.00017

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X1P4H7H	**(A1 * B2 * !YN)**	-0.00000	-0.00000	0.00000
	(A1 * B2 * !YN)	-0.00005	-0.00005	-0.00005
	(A1 * B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * B2 * !YN)	0.00035	0.00035	0.00036
	(A1 * B1 * !B2 * !YN)	-0.00000	0.00000	0.00000
	(A1 * B1 * !B2 * !YN)	-0.00005	-0.00005	-0.00005
	(A1 * B1 * !B2 * !YN)	0.00000	0.00001	0.00001
	(A1 * B1 * !B2 * !YN)	0.00035	0.00035	0.00036
	(A1 * B0 * !B1 * !B2 * !YN)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !B1 * !B2 * !YN)	-0.00005	-0.00005	-0.00005
	(A1 * B0 * !B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * B0 * !B1 * !B2 * !YN)	0.00035	0.00036	0.00036
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00016	-0.00014	-0.00012
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * !B1 * !B2 * YN)	0.00000	0.00001	0.00001
	(A1 * !B0 * !B1 * !B2 * YN)	0.00028	0.00028	0.00028
	(A0 * !A1 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B2 * !YN)	-0.00005	-0.00005	-0.00004
	(A0 * !A1 * B2 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * B2 * !YN)	0.00035	0.00035	0.00036
	(A0 * !A1 * B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * !B2 * !YN)	-0.00005	-0.00005	-0.00004
	(A0 * !A1 * B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * B1 * !B2 * !YN)	0.00035	0.00036	0.00036
	(A0 * !A1 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * !B2 * !YN)	-0.00005	-0.00005	-0.00004
	(A0 * !A1 * B0 * !B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * B0 * !B1 * !B2 * !YN)	0.00035	0.00035	0.00036
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00015	-0.00013	-0.00011
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00003	-0.00003	-0.00002
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00027	0.00028	0.00028
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00020	-0.00019	-0.00019
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00022	0.00022	0.00022

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X1P4H7H	**(A1 * B2 * !YN)**	-0.00000	0.00000	0.00000
	(A1 * B2 * !YN)	0.00005	0.00005	0.00005
	(A1 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * B2 * !YN)	-0.00035	-0.00035	-0.00035
	(A1 * B1 * !B2 * !YN)	-0.00000	-0.00000	0.00000
	(A1 * B1 * !B2 * !YN)	0.00005	0.00005	0.00005
	(A1 * B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * B1 * !B2 * !YN)	-0.00035	-0.00035	-0.00035
	(A1 * B0 * !B1 * !B2 * !YN)	-0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * !B2 * !YN)	0.00005	0.00005	0.00005
	(A1 * B0 * !B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !B1 * !B2 * !YN)	-0.00036	-0.00035	-0.00035
	(A1 * !B0 * !B1 * !B2 * YN)	0.00015	0.00015	0.00016
	(A1 * !B0 * !B1 * !B2 * YN)	0.00003	0.00003	0.00003
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00028	-0.00028	-0.00028
	(A0 * !A1 * B2 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * B2 * !YN)	0.00004	0.00005	0.00005
	(A0 * !A1 * B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B2 * !YN)	-0.00036	-0.00035	-0.00035
	(A0 * !A1 * B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * !B2 * !YN)	0.00004	0.00005	0.00005
	(A0 * !A1 * B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B1 * !B2 * !YN)	-0.00036	-0.00035	-0.00035
	(A0 * !A1 * B0 * !B1 * !B2 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * !B2 * !YN)	0.00004	0.00005	0.00005
	(A0 * !A1 * B0 * !B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B0 * !B1 * !B2 * !YN)	-0.00036	-0.00035	-0.00035
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00015	0.00015	0.00015
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00002	0.00003	0.00003
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00028	-0.00028	-0.00027
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00020	0.00020	0.00020
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00022	-0.00020	-0.00016

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X1P4H7H	**(A2 * B1 * B2 * !YN)**	-0.00014	-0.00012	-0.00010
	(A2 * B1 * B2 * !YN)	-0.00003	-0.00003	-0.00003
	(A2 * B1 * B2 * !YN)	0.00001	0.00001	0.00001
	(A2 * B1 * B2 * !YN)	0.00035	0.00036	0.00036
	(A2 * B1 * !B2 * !YN)	-0.00014	-0.00012	-0.00010
	(A2 * B1 * !B2 * !YN)	-0.00003	-0.00003	-0.00003
	(A2 * B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(A2 * B1 * !B2 * !YN)	0.00035	0.00036	0.00036
	(A2 * !B1 * B2 * !YN)	-0.00013	-0.00012	-0.00010
	(A2 * !B1 * B2 * !YN)	-0.00003	-0.00003	-0.00003
	(A2 * !B1 * B2 * !YN)	0.00000	0.00001	0.00001
	(A2 * !B1 * B2 * !YN)	0.00035	0.00036	0.00036
	(A1 * !A2 * B1 * B2 * !YN)	-0.00014	-0.00012	-0.00011
	(A1 * !A2 * B1 * B2 * !YN)	-0.00003	-0.00003	-0.00003
	(A1 * !A2 * B1 * B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B1 * B2 * !YN)	0.00035	0.00036	0.00036
	(A1 * !A2 * B1 * !B2 * !YN)	-0.00014	-0.00012	-0.00011
	(A1 * !A2 * B1 * !B2 * !YN)	-0.00003	-0.00003	-0.00003
	(A1 * !A2 * B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B1 * !B2 * !YN)	0.00035	0.00036	0.00036
	(A1 * !A2 * !B1 * B2 * !YN)	-0.00013	-0.00012	-0.00010
	(A1 * !A2 * !B1 * B2 * !YN)	-0.00003	-0.00003	-0.00003
	(A1 * !A2 * !B1 * B2 * !YN)	0.00000	0.00001	0.00001
	(A1 * !A2 * !B1 * B2 * !YN)	0.00035	0.00036	0.00036
	(A0 * !A1 * !A2 * B1 * B2 * !YN)	-0.00014	-0.00012	-0.00010
	(A0 * !A1 * !A2 * B1 * B2 * !YN)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * !A2 * B1 * B2 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !A2 * B1 * B2 * !YN)	0.00035	0.00035	0.00036
	(A0 * !A1 * !A2 * B1 * !B2 * !YN)	-0.00014	-0.00012	-0.00010
	(A0 * !A1 * !A2 * B1 * !B2 * !YN)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * !A2 * B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !A2 * B1 * !B2 * !YN)	0.00035	0.00035	0.00036
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	-0.00013	-0.00012	-0.00010
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	0.00035	0.00036	0.00036
	(!A0 * !A1 * !A2 * B1 * B2 * YN)	-0.00030	-0.00028	-0.00027
	(!A0 * !A1 * !A2 * B1 * B2 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * B1 * B2 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * B1 * B2 * YN)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !A2 * B1 * !B2 * YN)	-0.00030	-0.00028	-0.00027
	(!A0 * !A1 * !A2 * B1 * !B2 * YN)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * B1 * !B2 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * B1 * !B2 * YN)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	-0.00029	-0.00028	-0.00025
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	-0.00032	-0.00032	-0.00032
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	0.00006	0.00006	0.00006

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X1P4H7H	**(A2 * B1 * B2 * !YN)**	0.00013	0.00014	0.00014
	(A2 * B1 * B2 * !YN)	0.00003	0.00003	0.00003
	(A2 * B1 * B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A2 * B1 * B2 * !YN)	-0.00036	-0.00035	-0.00035
	(A2 * B1 * !B2 * !YN)	0.00013	0.00014	0.00014
	(A2 * B1 * !B2 * !YN)	0.00003	0.00003	0.00003
	(A2 * B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A2 * B1 * !B2 * !YN)	-0.00036	-0.00035	-0.00035
	(A2 * !B1 * B2 * !YN)	0.00013	0.00013	0.00013
	(A2 * !B1 * B2 * !YN)	0.00003	0.00003	0.00003
	(A2 * !B1 * B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A2 * !B1 * B2 * !YN)	-0.00036	-0.00035	-0.00035
	(A1 * !A2 * B1 * B2 * !YN)	0.00013	0.00014	0.00014
	(A1 * !A2 * B1 * B2 * !YN)	0.00003	0.00003	0.00003
	(A1 * !A2 * B1 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B1 * B2 * !YN)	-0.00036	-0.00036	-0.00035
	(A1 * !A2 * B1 * !B2 * !YN)	0.00013	0.00014	0.00014
	(A1 * !A2 * B1 * !B2 * !YN)	0.00003	0.00003	0.00003
	(A1 * !A2 * B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * B1 * !B2 * !YN)	-0.00036	-0.00035	-0.00035
	(A1 * !A2 * !B1 * B2 * !YN)	0.00013	0.00013	0.00013
	(A1 * !A2 * !B1 * B2 * !YN)	0.00003	0.00003	0.00003
	(A1 * !A2 * !B1 * B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * !B1 * B2 * !YN)	-0.00036	-0.00035	-0.00035
	(A0 * !A1 * !A2 * B1 * B2 * !YN)	0.00013	0.00014	0.00014
	(A0 * !A1 * !A2 * B1 * B2 * !YN)	0.00003	0.00003	0.00003
	(A0 * !A1 * !A2 * B1 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !A2 * B1 * B2 * !YN)	-0.00036	-0.00035	-0.00035
	(A0 * !A1 * !A2 * B1 * !B2 * !YN)	0.00013	0.00014	0.00014
	(A0 * !A1 * !A2 * B1 * !B2 * !YN)	0.00003	0.00003	0.00003
	(A0 * !A1 * !A2 * B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !A2 * B1 * !B2 * !YN)	-0.00036	-0.00035	-0.00035
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	0.00013	0.00013	0.00013
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	0.00003	0.00003	0.00003
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	-0.00036	-0.00036	-0.00035
	(!A0 * !A1 * !A2 * B1 * B2 * YN)	0.00029	0.00029	0.00030
	(!A0 * !A1 * !A2 * B1 * B2 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * B1 * B2 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * B1 * B2 * YN)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !A2 * B1 * !B2 * YN)	0.00029	0.00029	0.00030
	(!A0 * !A1 * !A2 * B1 * !B2 * YN)	0.00003	0.00003	0.00004
	(!A0 * !A1 * !A2 * B1 * !B2 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * B1 * !B2 * YN)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	0.00028	0.00029	0.00029
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	0.00003	0.00003	0.00004
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	0.00032	0.00032	0.00033
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	0.00001	0.00001	0.00002
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X1P4H7H	**(A2 * B0 * B2 * !YN)**	-0.00000	-0.00000	0.00000
	(A2 * B0 * B2 * !YN)	-0.00009	-0.00009	-0.00008
	(A2 * B0 * B2 * !YN)	0.00001	0.00001	0.00001
	(A2 * B0 * B2 * !YN)	0.00029	0.00030	0.00030
	(A2 * B0 * !B2 * !YN)	-0.00000	0.00000	0.00000
	(A2 * B0 * !B2 * !YN)	-0.00007	-0.00007	-0.00007
	(A2 * B0 * !B2 * !YN)	0.00001	0.00001	0.00001
	(A2 * B0 * !B2 * !YN)	0.00029	0.00030	0.00030
	(A2 * !B0 * B2 * !YN)	-0.00014	-0.00013	-0.00011
	(A2 * !B0 * B2 * !YN)	-0.00003	-0.00003	-0.00003
	(A2 * !B0 * B2 * !YN)	0.00001	0.00001	0.00001
	(A2 * !B0 * B2 * !YN)	0.00029	0.00029	0.00030
	(A1 * !A2 * B0 * B2 * !YN)	-0.00000	-0.00000	0.00000
	(A1 * !A2 * B0 * B2 * !YN)	-0.00009	-0.00009	-0.00008
	(A1 * !A2 * B0 * B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * B2 * !YN)	0.00029	0.00030	0.00030
	(A1 * !A2 * B0 * !B2 * !YN)	-0.00000	-0.00000	0.00000
	(A1 * !A2 * B0 * !B2 * !YN)	-0.00007	-0.00007	-0.00007
	(A1 * !A2 * B0 * !B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * !B2 * !YN)	0.00029	0.00030	0.00030
	(A1 * !A2 * !B0 * B2 * !YN)	-0.00014	-0.00013	-0.00011
	(A1 * !A2 * !B0 * B2 * !YN)	-0.00003	-0.00003	-0.00003
	(A1 * !A2 * !B0 * B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * !B0 * B2 * !YN)	0.00029	0.00029	0.00030
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	-0.00009	-0.00009	-0.00008
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	0.00029	0.00030	0.00030
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	-0.00007	-0.00007	-0.00007
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	0.00029	0.00029	0.00030
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	-0.00014	-0.00013	-0.00011
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	0.00029	0.00029	0.00030
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	-0.00013	-0.00013	-0.00012
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	0.00003	0.00003	0.00004
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	-0.00026	-0.00025	-0.00023
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	-0.00027	-0.00025	-0.00023
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	0.00003	0.00003	0.00004
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	-0.00030	-0.00029	-0.00029
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	0.00003	0.00003	0.00004

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X1P4H7H	**(A2 * B0 * B2 * !YN)**	0.00000	0.00000	0.00000
	(A2 * B0 * B2 * !YN)	0.00008	0.00009	0.00009
	(A2 * B0 * B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A2 * B0 * B2 * !YN)	-0.00030	-0.00030	-0.00029
	(A2 * B0 * !B2 * !YN)	-0.00000	-0.00000	0.00000
	(A2 * B0 * !B2 * !YN)	0.00007	0.00007	0.00007
	(A2 * B0 * !B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A2 * B0 * !B2 * !YN)	-0.00030	-0.00029	-0.00029
	(A2 * !B0 * B2 * !YN)	0.00014	0.00014	0.00014
	(A2 * !B0 * B2 * !YN)	0.00003	0.00003	0.00003
	(A2 * !B0 * B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A2 * !B0 * B2 * !YN)	-0.00029	-0.00029	-0.00029
	(A1 * !A2 * B0 * B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * B2 * !YN)	0.00008	0.00009	0.00009
	(A1 * !A2 * B0 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * B2 * !YN)	-0.00030	-0.00029	-0.00029
	(A1 * !A2 * B0 * !B2 * !YN)	-0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !B2 * !YN)	0.00007	0.00007	0.00007
	(A1 * !A2 * B0 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * !B2 * !YN)	-0.00030	-0.00029	-0.00029
	(A1 * !A2 * !B0 * B2 * !YN)	0.00014	0.00014	0.00014
	(A1 * !A2 * !B0 * B2 * !YN)	0.00003	0.00003	0.00003
	(A1 * !A2 * !B0 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !B0 * B2 * !YN)	-0.00029	-0.00029	-0.00029
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	0.00008	0.00009	0.00009
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	-0.00030	-0.00029	-0.00029
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	0.00007	0.00007	0.00007
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	-0.00030	-0.00029	-0.00029
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	0.00014	0.00014	0.00014
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	0.00003	0.00003	0.00003
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	-0.00029	-0.00029	-0.00029
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	0.00012	0.00013	0.00013
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	0.00009	0.00009	0.00009
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	0.00026	0.00026	0.00026
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	0.00026	0.00027	0.00027
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	0.00030	0.00030	0.00030
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	0.00000	0.00001	0.00002
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	-0.00003	-0.00003	-0.00003

Passive power(pJ) for B2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X1P4H7H	**(A2 * B1 * !YN)**	-0.00000	0.00000	0.00000
	(A2 * B1 * !YN)	-0.00005	-0.00005	-0.00004
	(A2 * B1 * !YN)	0.00001	0.00001	0.00001
	(A2 * B1 * !YN)	0.00038	0.00039	0.00039
	(A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A2 * B0 * !B1 * !YN)	-0.00004	-0.00004	-0.00004
	(A2 * B0 * !B1 * !YN)	0.00001	0.00001	0.00001
	(A2 * B0 * !B1 * !YN)	0.00039	0.00039	0.00039
	(A1 * !A2 * B1 * !YN)	-0.00000	-0.00000	0.00000
	(A1 * !A2 * B1 * !YN)	-0.00005	-0.00005	-0.00004
	(A1 * !A2 * B1 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B1 * !YN)	0.00039	0.00039	0.00039
	(A1 * !A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00004	-0.00004	-0.00004
	(A1 * !A2 * B0 * !B1 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * !B1 * !YN)	0.00038	0.00039	0.00039
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00005	-0.00005	-0.00004
	(A0 * !A1 * !A2 * B1 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !A2 * B1 * !YN)	0.00039	0.00039	0.00039
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	-0.00004	-0.00004	-0.00004
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	0.00038	0.00039	0.00039
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00028	-0.00027	-0.00025
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * B1 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * B1 * YN)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	-0.00027	-0.00025	-0.00023
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	0.00003	0.00003	0.00004
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	-0.00032	-0.00031	-0.00031
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	0.00004	0.00004	0.00004

Passive power(pJ) for B2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X1P4H7H	**(A2 * B1 * !YN)**	-0.00000	-0.00000	0.00000
	(A2 * B1 * !YN)	0.00005	0.00005	0.00005
	(A2 * B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A2 * B1 * !YN)	-0.00039	-0.00039	-0.00038
	(A2 * B0 * !B1 * !YN)	-0.00000	-0.00000	0.00000
	(A2 * B0 * !B1 * !YN)	0.00004	0.00005	0.00005
	(A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A2 * B0 * !B1 * !YN)	-0.00039	-0.00039	-0.00038
	(A1 * !A2 * B1 * !YN)	-0.00000	0.00000	0.00000
	(A1 * !A2 * B1 * !YN)	0.00005	0.00005	0.00005
	(A1 * !A2 * B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * B1 * !YN)	-0.00039	-0.00039	-0.00038
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !B1 * !YN)	0.00005	0.00005	0.00005
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00039	-0.00039	-0.00038
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B1 * !YN)	0.00005	0.00005	0.00005
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00039	-0.00039	-0.00038
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	0.00004	0.00005	0.00005
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	-0.00039	-0.00038	-0.00038
	(!A0 * !A1 * !A2 * B1 * YN)	0.00028	0.00028	0.00028
	(!A0 * !A1 * !A2 * B1 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	0.00027	0.00027	0.00027
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	0.00031	0.00032	0.00032
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	0.00001	0.00001	0.00002
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	-0.00004	-0.00004	-0.00004

OAI33X2H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI33 cell provides the logical inverted AND of two OR groups. The output (Y) is represented by the logic equation:

Truth Table

INPUT						OUTPUT
A0	A1	A2	B0	B1	B2	YN
0	0	0	x	x	x	1
0	x	1	0	0	0	1
0	x	1	0	x	1	0
0	x	1	x	1	x	0
0	x	1	1	x	x	0
x	1	x	0	0	0	1
x	1	x	0	x	1	0
x	1	x	x	1	x	0
x	1	x	1	x	x	0
1	x	x	0	0	0	1
1	x	x	0	x	1	0
1	x	x	x	1	x	0
1	x	x	1	x	x	0

Footprint

Cell Name	Area
OAI33X2H7H	3.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	**A1**	**A2**	**B0**	**B1**	**B2**	**YN**
OAI33X2H7H	0.00104	0.00105	0.00117	0.00116	0.00116	0.00118	0.01606

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
OAI33X2H7H	0.00000	0.02956	0.08162

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI33X2H7H	A0->YN (FR)	0.10832	0.27347	0.72417
	A1->YN (FR)	0.10560	0.27493	0.74754
	A2->YN (FR)	0.09700	0.26054	0.72264
	B0->YN (FR)	0.07673	0.23723	0.68767
	B1->YN (FR)	0.07248	0.23638	0.70996
	B2->YN (FR)	0.06228	0.22032	0.68534

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI33X2H7H	A0->YN (RF)	0.05307	0.16741	0.49762
	A1->YN (RF)	0.05061	0.16370	0.49387
	A2->YN (RF)	0.04698	0.15883	0.48884
	B0->YN (RF)	0.04366	0.15121	0.48403
	B1->YN (RF)	0.04057	0.14650	0.47846
	B2->YN (RF)	0.03651	0.14087	0.47358

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI33X2H7H	A0	0.00296	0.00300	0.00302
	A0	-0.00027	-0.00027	-0.00026
	A0	0.00035	0.00035	0.00035
	A0	-0.00014	-0.00010	-0.00008
	A1	0.00272	0.00276	0.00279
	A1	-0.00019	-0.00019	-0.00019
	A1	0.00035	0.00035	0.00035
	A1	-0.00005	-0.00002	0.00001
	A2	0.00242	0.00249	0.00253
	A2	-0.00010	-0.00010	-0.00004
	A2	0.00034	0.00035	0.00035
	A2	-0.00008	-0.00004	-0.00000
	B0	0.00237	0.00243	0.00247
	B0	-0.00027	-0.00026	-0.00026
	B0	0.00013	0.00014	0.00014
	B0	-0.00007	-0.00002	0.00003
	B1	0.00212	0.00217	0.00221
	B1	-0.00019	-0.00019	-0.00019
	B1	0.00013	0.00014	0.00014
	B1	-0.00004	0.00001	0.00005
	B2	0.00181	0.00188	0.00193
	B2	-0.00011	-0.00010	-0.00005
	B2	0.00013	0.00014	0.00014
	B2	-0.00006	-0.00002	0.00003

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI33X2H7H	A0	-0.00014	-0.00012	-0.00010
	A0	0.00042	0.00043	0.00043
	A0	-0.00033	-0.00033	-0.00032
	A0	0.00287	0.00293	0.00295
	A1	-0.00014	-0.00011	-0.00009
	A1	0.00035	0.00035	0.00036
	A1	-0.00033	-0.00033	-0.00032
	A1	0.00263	0.00267	0.00269
	A2	-0.00016	-0.00011	-0.00003
	A2	0.00026	0.00027	0.00027
	A2	-0.00034	-0.00033	-0.00032
	A2	0.00243	0.00248	0.00250
	B0	-0.00017	-0.00014	-0.00011
	B0	0.00042	0.00043	0.00043
	B0	-0.00014	-0.00014	-0.00013
	B0	0.00204	0.00209	0.00213
	B1	-0.00017	-0.00013	-0.00009
	B1	0.00034	0.00035	0.00036
	B1	-0.00014	-0.00013	-0.00013
	B1	0.00182	0.00188	0.00191
	B2	-0.00016	-0.00011	-0.00004
	B2	0.00026	0.00027	0.00027
	B2	-0.00014	-0.00013	-0.00012
	B2	0.00163	0.00168	0.00172

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X2H7H	**(A1 * A2 * B2 * !YN)**	-0.00016	-0.00015	-0.00012
	(A1 * A2 * B2 * !YN)	-0.00004	-0.00003	-0.00003
	(A1 * A2 * B2 * !YN)	0.00000	0.00001	0.00001
	(A1 * A2 * B2 * !YN)	0.00037	0.00038	0.00038
	(A1 * A2 * B1 * !B2 * !YN)	-0.00016	-0.00015	-0.00012
	(A1 * A2 * B1 * !B2 * !YN)	-0.00004	-0.00003	-0.00003
	(A1 * A2 * B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * A2 * B1 * !B2 * !YN)	0.00037	0.00038	0.00038
	(A1 * A2 * B0 * !B1 * !B2 * !YN)	-0.00016	-0.00015	-0.00013
	(A1 * A2 * B0 * !B1 * !B2 * !YN)	-0.00004	-0.00003	-0.00003
	(A1 * A2 * B0 * !B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * A2 * B0 * !B1 * !B2 * !YN)	0.00038	0.00038	0.00038
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00016	-0.00015	-0.00013
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00004	-0.00003	-0.00003
	(A1 * !B0 * !B1 * !B2 * YN)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * !B2 * YN)	0.00038	0.00038	0.00038
	(A1 * !A2 * B2 * !YN)	-0.00016	-0.00015	-0.00013
	(A1 * !A2 * B2 * !YN)	-0.00003	-0.00003	-0.00003
	(A1 * !A2 * B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B2 * !YN)	0.00037	0.00038	0.00038
	(A1 * !A2 * B1 * !B2 * !YN)	-0.00016	-0.00015	-0.00013
	(A1 * !A2 * B1 * !B2 * !YN)	-0.00003	-0.00003	-0.00003
	(A1 * !A2 * B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B1 * !B2 * !YN)	0.00038	0.00038	0.00038
	(A1 * !A2 * B0 * !B1 * !B2 * !YN)	-0.00016	-0.00015	-0.00012
	(A1 * !A2 * B0 * !B1 * !B2 * !YN)	-0.00003	-0.00003	-0.00003
	(A1 * !A2 * B0 * !B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * !B1 * !B2 * !YN)	0.00037	0.00038	0.00038
	(!A1 * A2 * B2 * !YN)	-0.00015	-0.00014	-0.00011
	(!A1 * A2 * B2 * !YN)	-0.00004	-0.00004	-0.00003
	(!A1 * A2 * B2 * !YN)	0.00001	0.00001	0.00001
	(!A1 * A2 * B2 * !YN)	0.00038	0.00038	0.00038
	(!A1 * A2 * B1 * !B2 * !YN)	-0.00015	-0.00014	-0.00011
	(!A1 * A2 * B1 * !B2 * !YN)	-0.00004	-0.00004	-0.00003
	(!A1 * A2 * B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(!A1 * A2 * B1 * !B2 * !YN)	0.00038	0.00038	0.00038
	(!A1 * A2 * B0 * !B1 * !B2 * !YN)	-0.00015	-0.00014	-0.00011
	(!A1 * A2 * B0 * !B1 * !B2 * !YN)	-0.00004	-0.00004	-0.00003
	(!A1 * A2 * B0 * !B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(!A1 * A2 * B0 * !B1 * !B2 * !YN)	0.00037	0.00038	0.00038
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	-0.00015	-0.00014	-0.00011
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	-0.00004	-0.00003	-0.00003
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	0.00037	0.00038	0.00038
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00020	-0.00020	-0.00020
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00002	-0.00002	-0.00001
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	0.00003	0.00003	0.00003
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	0.00032	0.00032	0.00033

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X2H7H	**(A1 * A2 * B2 * !YN)**	0.00016	0.00016	0.00016
	(A1 * A2 * B2 * !YN)	0.00003	0.00003	0.00004
	(A1 * A2 * B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * A2 * B2 * !YN)	-0.00038	-0.00038	-0.00037
	(A1 * A2 * B1 * !B2 * !YN)	0.00016	0.00016	0.00016
	(A1 * A2 * B1 * !B2 * !YN)	0.00003	0.00003	0.00004
	(A1 * A2 * B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B1 * !B2 * !YN)	-0.00038	-0.00038	-0.00037
	(A1 * A2 * B0 * !B1 * !B2 * !YN)	0.00016	0.00016	0.00016
	(A1 * A2 * B0 * !B1 * !B2 * !YN)	0.00003	0.00003	0.00004
	(A1 * A2 * B0 * !B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B0 * !B1 * !B2 * !YN)	-0.00038	-0.00038	-0.00038
	(A1 * !B0 * !B1 * !B2 * YN)	0.00016	0.00016	0.00016
	(A1 * !B0 * !B1 * !B2 * YN)	0.00003	0.00003	0.00004
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00038	-0.00038	-0.00038
	(A1 * !A2 * B2 * !YN)	0.00016	0.00016	0.00016
	(A1 * !A2 * B2 * !YN)	0.00003	0.00003	0.00003
	(A1 * !A2 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B2 * !YN)	-0.00038	-0.00038	-0.00037
	(A1 * !A2 * B1 * !B2 * !YN)	0.00016	0.00016	0.00016
	(A1 * !A2 * B1 * !B2 * !YN)	0.00003	0.00003	0.00003
	(A1 * !A2 * B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B1 * !B2 * !YN)	-0.00038	-0.00038	-0.00037
	(A1 * !A2 * B0 * !B1 * !B2 * !YN)	0.00016	0.00016	0.00016
	(A1 * !A2 * B0 * !B1 * !B2 * !YN)	0.00003	0.00003	0.00003
	(A1 * !A2 * B0 * !B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * !B1 * !B2 * !YN)	-0.00038	-0.00038	-0.00037
	(!A1 * A2 * B2 * !YN)	0.00015	0.00015	0.00015
	(!A1 * A2 * B2 * !YN)	0.00003	0.00004	0.00004
	(!A1 * A2 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * B2 * !YN)	-0.00038	-0.00038	-0.00037
	(!A1 * A2 * B1 * !B2 * !YN)	0.00015	0.00015	0.00015
	(!A1 * A2 * B1 * !B2 * !YN)	0.00003	0.00004	0.00004
	(!A1 * A2 * B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * B1 * !B2 * !YN)	-0.00038	-0.00038	-0.00038
	(!A1 * A2 * B0 * !B1 * !B2 * !YN)	0.00015	0.00015	0.00015
	(!A1 * A2 * B0 * !B1 * !B2 * !YN)	0.00003	0.00004	0.00004
	(!A1 * A2 * B0 * !B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * B0 * !B1 * !B2 * !YN)	-0.00038	-0.00038	-0.00037
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	0.00015	0.00015	0.00015
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	0.00003	0.00003	0.00004
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	-0.00038	-0.00038	-0.00037
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	0.00020	0.00020	0.00020
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	0.00001	0.00002	0.00002
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00003	-0.00003	-0.00002
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00032	-0.00030	-0.00027

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X2H7H	**(A0 * A2 * B2 * !YN)**	-0.00000	-0.00000	0.00000
	(A0 * A2 * B2 * !YN)	-0.00010	-0.00010	-0.00010
	(A0 * A2 * B2 * !YN)	0.00000	0.00001	0.00001
	(A0 * A2 * B2 * !YN)	0.00031	0.00031	0.00031
	(A0 * A2 * B1 * !B2 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * A2 * B1 * !B2 * !YN)	-0.00010	-0.00010	-0.00010
	(A0 * A2 * B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(A0 * A2 * B1 * !B2 * !YN)	0.00031	0.00031	0.00031
	(A0 * A2 * B0 * !B1 * !B2 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * A2 * B0 * !B1 * !B2 * !YN)	-0.00010	-0.00010	-0.00010
	(A0 * A2 * B0 * !B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(A0 * A2 * B0 * !B1 * !B2 * !YN)	0.00031	0.00031	0.00031
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00000	-0.00000	0.00000
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00010	-0.00010	-0.00010
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00001	0.00001	0.00001
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00031	0.00031	0.00031
	(A0 * !A2 * B2 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * !A2 * B2 * !YN)	-0.00008	-0.00008	-0.00008
	(A0 * !A2 * B2 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A2 * B2 * !YN)	0.00031	0.00031	0.00031
	(A0 * !A2 * B1 * !B2 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A2 * B1 * !B2 * !YN)	-0.00008	-0.00008	-0.00008
	(A0 * !A2 * B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A2 * B1 * !B2 * !YN)	0.00030	0.00031	0.00031
	(A0 * !A2 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !B1 * !B2 * !YN)	-0.00008	-0.00008	-0.00008
	(A0 * !A2 * B0 * !B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A2 * B0 * !B1 * !B2 * !YN)	0.00030	0.00031	0.00031
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00016	-0.00015	-0.00012
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00004	-0.00004	-0.00003
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00030	0.00030	0.00031
	(!A0 * A2 * B2 * !YN)	-0.00017	-0.00015	-0.00012
	(!A0 * A2 * B2 * !YN)	-0.00004	-0.00003	-0.00003
	(!A0 * A2 * B2 * !YN)	0.00001	0.00001	0.00001
	(!A0 * A2 * B2 * !YN)	0.00030	0.00031	0.00031
	(!A0 * A2 * B1 * !B2 * !YN)	-0.00017	-0.00015	-0.00012
	(!A0 * A2 * B1 * !B2 * !YN)	-0.00004	-0.00003	-0.00003
	(!A0 * A2 * B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(!A0 * A2 * B1 * !B2 * !YN)	0.00030	0.00031	0.00031
	(!A0 * A2 * B0 * !B1 * !B2 * !YN)	-0.00017	-0.00015	-0.00012
	(!A0 * A2 * B0 * !B1 * !B2 * !YN)	-0.00004	-0.00003	-0.00003
	(!A0 * A2 * B0 * !B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(!A0 * A2 * B0 * !B1 * !B2 * !YN)	0.00030	0.00031	0.00031
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00017	-0.00015	-0.00013
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00004	-0.00003	-0.00003
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00001	0.00001	0.00001
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00030	0.00030	0.00031
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00021	-0.00021	-0.00021
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00002	-0.00002	-0.00001
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00024	0.00024	0.00024

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X2H7H	**(A0 * A2 * B2 * !YN)**	0.00000	0.00000	0.00000
	(A0 * A2 * B2 * !YN)	0.00010	0.00010	0.00010
	(A0 * A2 * B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * A2 * B2 * !YN)	-0.00031	-0.00031	-0.00030
	(A0 * A2 * B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * A2 * B1 * !B2 * !YN)	0.00010	0.00010	0.00010
	(A0 * A2 * B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * A2 * B1 * !B2 * !YN)	-0.00031	-0.00031	-0.00030
	(A0 * A2 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * !B1 * !B2 * !YN)	0.00010	0.00010	0.00010
	(A0 * A2 * B0 * !B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * A2 * B0 * !B1 * !B2 * !YN)	-0.00031	-0.00031	-0.00030
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00000	0.00000	0.00000
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00010	0.00010	0.00010
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00031	-0.00031	-0.00030
	(A0 * !A2 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B2 * !YN)	0.00008	0.00009	0.00009
	(A0 * !A2 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * B2 * !YN)	-0.00031	-0.00031	-0.00030
	(A0 * !A2 * B1 * !B2 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * !A2 * B1 * !B2 * !YN)	0.00008	0.00009	0.00009
	(A0 * !A2 * B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * B1 * !B2 * !YN)	-0.00031	-0.00031	-0.00030
	(A0 * !A2 * B0 * !B1 * !B2 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !B1 * !B2 * !YN)	0.00009	0.00009	0.00009
	(A0 * !A2 * B0 * !B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * B0 * !B1 * !B2 * !YN)	-0.00031	-0.00031	-0.00030
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00016	0.00016	0.00016
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00003	0.00004	0.00004
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00031	-0.00030	-0.00030
	(!A0 * A2 * B2 * !YN)	0.00017	0.00017	0.00017
	(!A0 * A2 * B2 * !YN)	0.00003	0.00003	0.00004
	(!A0 * A2 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B2 * !YN)	-0.00031	-0.00030	-0.00030
	(!A0 * A2 * B1 * !B2 * !YN)	0.00017	0.00017	0.00017
	(!A0 * A2 * B1 * !B2 * !YN)	0.00003	0.00003	0.00004
	(!A0 * A2 * B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B1 * !B2 * !YN)	-0.00031	-0.00030	-0.00030
	(!A0 * A2 * B0 * !B1 * !B2 * !YN)	0.00017	0.00017	0.00017
	(!A0 * A2 * B0 * !B1 * !B2 * !YN)	0.00003	0.00003	0.00004
	(!A0 * A2 * B0 * !B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B0 * !B1 * !B2 * !YN)	-0.00031	-0.00030	-0.00030
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00016	0.00017	0.00017
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00003	0.00003	0.00004
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00031	-0.00030	-0.00030
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00021	0.00021	0.00021
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00001	0.00002	0.00002
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00024	-0.00022	-0.00018

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X2H7H	**(A1 * B2 * !YN)**	-0.00000	-0.00000	0.00000
	(A1 * B2 * !YN)	-0.00006	-0.00006	-0.00006
	(A1 * B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * B2 * !YN)	0.00040	0.00040	0.00040
	(A1 * B1 * !B2 * !YN)	-0.00000	0.00000	0.00000
	(A1 * B1 * !B2 * !YN)	-0.00006	-0.00006	-0.00006
	(A1 * B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * B1 * !B2 * !YN)	0.00040	0.00040	0.00040
	(A1 * B0 * !B1 * !B2 * !YN)	-0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * !B2 * !YN)	-0.00006	-0.00006	-0.00005
	(A1 * B0 * !B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * B0 * !B1 * !B2 * !YN)	0.00039	0.00040	0.00040
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00019	-0.00017	-0.00015
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00004	-0.00004	-0.00003
	(A1 * !B0 * !B1 * !B2 * YN)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * !B2 * YN)	0.00030	0.00030	0.00030
	(A0 * !A1 * B2 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B2 * !YN)	-0.00005	-0.00005	-0.00005
	(A0 * !A1 * B2 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * B2 * !YN)	0.00039	0.00040	0.00040
	(A0 * !A1 * B1 * !B2 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * !B2 * !YN)	-0.00005	-0.00005	-0.00005
	(A0 * !A1 * B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * B1 * !B2 * !YN)	0.00039	0.00040	0.00040
	(A0 * !A1 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * !B2 * !YN)	-0.00005	-0.00005	-0.00005
	(A0 * !A1 * B0 * !B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * B0 * !B1 * !B2 * !YN)	0.00040	0.00040	0.00040
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00018	-0.00016	-0.00013
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00005	-0.00004	-0.00003
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00030	0.00030	0.00030
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00024	-0.00023	-0.00023
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00002	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00024	0.00024	0.00024

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X2H7H	**(A1 * B2 * !YN)**	-0.00000	0.00000	0.00000
	(A1 * B2 * !YN)	0.00006	0.00006	0.00006
	(A1 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * B2 * !YN)	-0.00040	-0.00040	-0.00040
	(A1 * B1 * !B2 * !YN)	-0.00000	0.00000	0.00000
	(A1 * B1 * !B2 * !YN)	0.00006	0.00006	0.00006
	(A1 * B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * !B2 * !YN)	-0.00040	-0.00040	-0.00039
	(A1 * B0 * !B1 * !B2 * !YN)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !B1 * !B2 * !YN)	0.00006	0.00006	0.00006
	(A1 * B0 * !B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !B1 * !B2 * !YN)	-0.00040	-0.00040	-0.00039
	(A1 * !B0 * !B1 * !B2 * YN)	0.00019	0.00019	0.00019
	(A1 * !B0 * !B1 * !B2 * YN)	0.00003	0.00004	0.00004
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00030	-0.00030	-0.00030
	(A0 * !A1 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B2 * !YN)	0.00006	0.00006	0.00006
	(A0 * !A1 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B2 * !YN)	-0.00040	-0.00040	-0.00039
	(A0 * !A1 * B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * !B2 * !YN)	0.00006	0.00006	0.00006
	(A0 * !A1 * B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B1 * !B2 * !YN)	-0.00040	-0.00040	-0.00039
	(A0 * !A1 * B0 * !B1 * !B2 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * !B2 * !YN)	0.00005	0.00006	0.00006
	(A0 * !A1 * B0 * !B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B0 * !B1 * !B2 * !YN)	-0.00040	-0.00040	-0.00039
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00018	0.00018	0.00018
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00003	0.00004	0.00005
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00030	-0.00030	-0.00030
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00023	0.00023	0.00024
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00001	0.00002	0.00002
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00024	-0.00022	-0.00018

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X2H7H	**(A2 * B1 * B2 * !YN)**	-0.00016	-0.00015	-0.00012
	(A2 * B1 * B2 * !YN)	-0.00004	-0.00003	-0.00003
	(A2 * B1 * B2 * !YN)	0.00001	0.00001	0.00001
	(A2 * B1 * B2 * !YN)	0.00036	0.00036	0.00037
	(A2 * B1 * !B2 * !YN)	-0.00016	-0.00015	-0.00012
	(A2 * B1 * !B2 * !YN)	-0.00004	-0.00003	-0.00003
	(A2 * B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(A2 * B1 * !B2 * !YN)	0.00036	0.00036	0.00037
	(A2 * !B1 * B2 * !YN)	-0.00016	-0.00014	-0.00011
	(A2 * !B1 * B2 * !YN)	-0.00004	-0.00003	-0.00003
	(A2 * !B1 * B2 * !YN)	0.00001	0.00001	0.00001
	(A2 * !B1 * B2 * !YN)	0.00036	0.00036	0.00037
	(A1 * !A2 * B1 * B2 * !YN)	-0.00016	-0.00015	-0.00012
	(A1 * !A2 * B1 * B2 * !YN)	-0.00004	-0.00003	-0.00003
	(A1 * !A2 * B1 * B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B1 * B2 * !YN)	0.00036	0.00036	0.00037
	(A1 * !A2 * B1 * !B2 * !YN)	-0.00016	-0.00015	-0.00013
	(A1 * !A2 * B1 * !B2 * !YN)	-0.00003	-0.00003	-0.00003
	(A1 * !A2 * B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B1 * !B2 * !YN)	0.00036	0.00036	0.00037
	(A1 * !A2 * !B1 * B2 * !YN)	-0.00016	-0.00014	-0.00012
	(A1 * !A2 * !B1 * B2 * !YN)	-0.00004	-0.00003	-0.00003
	(A1 * !A2 * !B1 * B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * !B1 * B2 * !YN)	0.00036	0.00036	0.00037
	(A0 * !A1 * !A2 * B1 * B2 * !YN)	-0.00016	-0.00015	-0.00012
	(A0 * !A1 * !A2 * B1 * B2 * !YN)	-0.00004	-0.00003	-0.00003
	(A0 * !A1 * !A2 * B1 * B2 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !A2 * B1 * B2 * !YN)	0.00036	0.00036	0.00037
	(A0 * !A1 * !A2 * B1 * !B2 * !YN)	-0.00016	-0.00015	-0.00012
	(A0 * !A1 * !A2 * B1 * !B2 * !YN)	-0.00004	-0.00003	-0.00003
	(A0 * !A1 * !A2 * B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !A2 * B1 * !B2 * !YN)	0.00036	0.00036	0.00037
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	-0.00016	-0.00014	-0.00011
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	-0.00004	-0.00004	-0.00003
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	0.00036	0.00036	0.00037
	(!A0 * !A1 * !A2 * B1 * B2 * YN)	-0.00031	-0.00030	-0.00028
	(!A0 * !A1 * !A2 * B1 * B2 * YN)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * B1 * B2 * YN)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !A2 * B1 * B2 * YN)	0.00005	0.00006	0.00006
	(!A0 * !A1 * !A2 * B1 * !B2 * YN)	-0.00031	-0.00030	-0.00028
	(!A0 * !A1 * !A2 * B1 * !B2 * YN)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * B1 * !B2 * YN)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !A2 * B1 * !B2 * YN)	0.00005	0.00006	0.00006
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	-0.00031	-0.00029	-0.00027
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	0.00005	0.00006	0.00006
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	-0.00035	-0.00034	-0.00034
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	0.00004	0.00005	0.00005
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	0.00005	0.00005	0.00006

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X2H7H	**(A2 * B1 * B2 * !YN)**	0.00016	0.00016	0.00016
	(A2 * B1 * B2 * !YN)	0.00003	0.00003	0.00004
	(A2 * B1 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A2 * B1 * B2 * !YN)	-0.00037	-0.00036	-0.00036
	(A2 * B1 * !B2 * !YN)	0.00016	0.00016	0.00016
	(A2 * B1 * !B2 * !YN)	0.00003	0.00003	0.00004
	(A2 * B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A2 * B1 * !B2 * !YN)	-0.00037	-0.00036	-0.00036
	(A2 * !B1 * B2 * !YN)	0.00015	0.00015	0.00016
	(A2 * !B1 * B2 * !YN)	0.00003	0.00003	0.00004
	(A2 * !B1 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A2 * !B1 * B2 * !YN)	-0.00037	-0.00036	-0.00036
	(A1 * !A2 * B1 * B2 * !YN)	0.00016	0.00016	0.00016
	(A1 * !A2 * B1 * B2 * !YN)	0.00003	0.00003	0.00004
	(A1 * !A2 * B1 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B1 * B2 * !YN)	-0.00037	-0.00036	-0.00036
	(A1 * !A2 * B1 * !B2 * !YN)	0.00016	0.00016	0.00016
	(A1 * !A2 * B1 * !B2 * !YN)	0.00003	0.00003	0.00003
	(A1 * !A2 * B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B1 * !B2 * !YN)	-0.00037	-0.00036	-0.00036
	(A1 * !A2 * !B1 * B2 * !YN)	0.00015	0.00015	0.00016
	(A1 * !A2 * !B1 * B2 * !YN)	0.00003	0.00004	0.00004
	(A1 * !A2 * !B1 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !B1 * B2 * !YN)	-0.00037	-0.00036	-0.00036
	(A0 * !A1 * !A2 * B1 * B2 * !YN)	0.00016	0.00016	0.00016
	(A0 * !A1 * !A2 * B1 * B2 * !YN)	0.00003	0.00003	0.00004
	(A0 * !A1 * !A2 * B1 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !A2 * B1 * B2 * !YN)	-0.00037	-0.00036	-0.00036
	(A0 * !A1 * !A2 * B1 * !B2 * !YN)	0.00016	0.00016	0.00016
	(A0 * !A1 * !A2 * B1 * !B2 * !YN)	0.00003	0.00003	0.00004
	(A0 * !A1 * !A2 * B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !A2 * B1 * !B2 * !YN)	-0.00037	-0.00036	-0.00036
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	0.00015	0.00015	0.00016
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	0.00003	0.00004	0.00004
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	-0.00037	-0.00036	-0.00036
	(!A0 * !A1 * !A2 * B1 * B2 * YN)	0.00031	0.00031	0.00031
	(!A0 * !A1 * !A2 * B1 * B2 * YN)	0.00003	0.00004	0.00004
	(!A0 * !A1 * !A2 * B1 * B2 * YN)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !A2 * B1 * B2 * YN)	-0.00006	-0.00006	-0.00005
	(!A0 * !A1 * !A2 * B1 * !B2 * YN)	0.00031	0.00031	0.00031
	(!A0 * !A1 * !A2 * B1 * !B2 * YN)	0.00003	0.00003	0.00004
	(!A0 * !A1 * !A2 * B1 * !B2 * YN)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !A2 * B1 * !B2 * YN)	-0.00006	-0.00006	-0.00005
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	0.00031	0.00031	0.00031
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	0.00003	0.00003	0.00004
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	-0.00005	-0.00006	-0.00005
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	0.00035	0.00035	0.00035
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	0.00001	0.00002	0.00002
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	-0.00005	-0.00005	-0.00005

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

	(A2 * B0 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A2 * B0 * B2 * !YN)	-0.00010	-0.00010	-0.00010
	(A2 * B0 * B2 * !YN)	0.00001	0.00001	0.00001
	(A2 * B0 * B2 * !YN)	0.00033	0.00033	0.00033
	(A2 * B0 * !B2 * !YN)	-0.00000	0.00000	0.00000
	(A2 * B0 * !B2 * !YN)	-0.00008	-0.00008	-0.00008
	(A2 * B0 * !B2 * !YN)	0.00001	0.00001	0.00001
	(A2 * B0 * !B2 * !YN)	0.00033	0.00033	0.00033
	(A2 * !B0 * B2 * !YN)	-0.00017	-0.00015	-0.00012
	(A2 * !B0 * B2 * !YN)	-0.00004	-0.00003	-0.00003
	(A2 * !B0 * B2 * !YN)	0.00001	0.00001	0.00001
	(A2 * !B0 * B2 * !YN)	0.00033	0.00033	0.00034
	(A1 * !A2 * B0 * B2 * !YN)	-0.00000	-0.00000	0.00000
	(A1 * !A2 * B0 * B2 * !YN)	-0.00010	-0.00010	-0.00010
	(A1 * !A2 * B0 * B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * B2 * !YN)	0.00033	0.00033	0.00033
	(A1 * !A2 * B0 * !B2 * !YN)	-0.00000	-0.00000	0.00000
	(A1 * !A2 * B0 * !B2 * !YN)	-0.00008	-0.00008	-0.00008
	(A1 * !A2 * B0 * !B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * !B2 * !YN)	0.00033	0.00033	0.00033
	(A1 * !A2 * !B0 * B2 * !YN)	-0.00017	-0.00015	-0.00012
	(A1 * !A2 * !B0 * B2 * !YN)	-0.00004	-0.00003	-0.00003
	(A1 * !A2 * !B0 * B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * !B0 * B2 * !YN)	0.00033	0.00033	0.00034
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	-0.00010	-0.00010	-0.00010
OAI33X2H7H	**(A0 * !A1 * !A2 * B0 * B2 * !YN)**	0.00001	0.00001	0.00001
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	0.00033	0.00033	0.00033
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	-0.00008	-0.00008	-0.00008
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	0.00033	0.00033	0.00033
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	-0.00017	-0.00015	-0.00013
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	-0.00004	-0.00004	-0.00003
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	0.00033	0.00033	0.00034
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	-0.00014	-0.00014	-0.00014
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	-0.00011	-0.00010	-0.00010
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	-0.00030	-0.00028	-0.00026
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	-0.00004	-0.00004	-0.00003
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	-0.00031	-0.00029	-0.00027
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	-0.00004	-0.00004	-0.00003
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	-0.00035	-0.00034	-0.00034
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	-0.00002	-0.00001	-0.00000
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	0.00004	0.00005	0.00005
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	0.00003	0.00003	0.00003

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X2H7H	**(A2 * B0 * B2 * !YN)**	0.00000	0.00000	0.00000
	(A2 * B0 * B2 * !YN)	0.00010	0.00010	0.00010
	(A2 * B0 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A2 * B0 * B2 * !YN)	-0.00033	-0.00033	-0.00033
	(A2 * B0 * !B2 * !YN)	-0.00000	-0.00000	0.00000
	(A2 * B0 * !B2 * !YN)	0.00008	0.00009	0.00009
	(A2 * B0 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A2 * B0 * !B2 * !YN)	-0.00033	-0.00033	-0.00033
	(A2 * !B0 * B2 * !YN)	0.00017	0.00017	0.00017
	(A2 * !B0 * B2 * !YN)	0.00003	0.00003	0.00004
	(A2 * !B0 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A2 * !B0 * B2 * !YN)	-0.00033	-0.00033	-0.00033
	(A1 * !A2 * B0 * B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * B2 * !YN)	0.00010	0.00010	0.00010
	(A1 * !A2 * B0 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * B2 * !YN)	-0.00033	-0.00033	-0.00033
	(A1 * !A2 * B0 * !B2 * !YN)	-0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !B2 * !YN)	0.00009	0.00009	0.00009
	(A1 * !A2 * B0 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * !B2 * !YN)	-0.00033	-0.00033	-0.00033
	(A1 * !A2 * !B0 * B2 * !YN)	0.00016	0.00017	0.00017
	(A1 * !A2 * !B0 * B2 * !YN)	0.00003	0.00003	0.00004
	(A1 * !A2 * !B0 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !B0 * B2 * !YN)	-0.00033	-0.00033	-0.00033
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	0.00010	0.00010	0.00010
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	-0.00033	-0.00033	-0.00033
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	0.00008	0.00009	0.00009
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	-0.00033	-0.00033	-0.00033
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	0.00017	0.00017	0.00017
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	0.00003	0.00004	0.00004
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	-0.00033	-0.00033	-0.00033
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	0.00014	0.00014	0.00014
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	0.00010	0.00010	0.00011
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	0.00030	0.00030	0.00030
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	0.00003	0.00004	0.00004
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	0.00031	0.00031	0.00031
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	0.00034	0.00034	0.00035
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	0.00000	0.00001	0.00002
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	-0.00003	-0.00003	-0.00003

Passive power(pJ) for B2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X2H7H	**(A2 * B1 * !YN)**	-0.00000	0.00000	0.00000
	(A2 * B1 * !YN)	-0.00005	-0.00005	-0.00005
	(A2 * B1 * !YN)	0.00001	0.00001	0.00001
	(A2 * B1 * !YN)	0.00041	0.00041	0.00041
	(A2 * B0 * !B1 * !YN)	-0.00000	0.00000	0.00000
	(A2 * B0 * !B1 * !YN)	-0.00005	-0.00005	-0.00005
	(A2 * B0 * !B1 * !YN)	0.00001	0.00001	0.00001
	(A2 * B0 * !B1 * !YN)	0.00041	0.00041	0.00041
	(A1 * !A2 * B1 * !YN)	-0.00000	-0.00000	0.00000
	(A1 * !A2 * B1 * !YN)	-0.00005	-0.00005	-0.00005
	(A1 * !A2 * B1 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B1 * !YN)	0.00041	0.00041	0.00041
	(A1 * !A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00005	-0.00005	-0.00005
	(A1 * !A2 * B0 * !B1 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * !B1 * !YN)	0.00041	0.00041	0.00041
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00005	-0.00005	-0.00005
	(A0 * !A1 * !A2 * B1 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !A2 * B1 * !YN)	0.00041	0.00041	0.00041
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	-0.00005	-0.00005	-0.00005
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	0.00041	0.00041	0.00041
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00030	-0.00028	-0.00026
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00004	-0.00004	-0.00003
	(!A0 * !A1 * !A2 * B1 * YN)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !A2 * B1 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	-0.00029	-0.00026	-0.00024
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	-0.00005	-0.00004	-0.00003
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	0.00003	0.00003	0.00004
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	-0.00034	-0.00034	-0.00033
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	-0.00002	-0.00001	-0.00001
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	0.00003	0.00003	0.00004

Passive power(pJ) for B2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X2H7H	**(A2 * B1 * !YN)**	-0.00000	-0.00000	0.00000
	(A2 * B1 * !YN)	0.00005	0.00006	0.00006
	(A2 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A2 * B1 * !YN)	-0.00041	-0.00041	-0.00041
	(A2 * B0 * !B1 * !YN)	-0.00000	0.00000	0.00000
	(A2 * B0 * !B1 * !YN)	0.00005	0.00005	0.00006
	(A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A2 * B0 * !B1 * !YN)	-0.00041	-0.00041	-0.00041
	(A1 * !A2 * B1 * !YN)	-0.00000	0.00000	0.00000
	(A1 * !A2 * B1 * !YN)	0.00005	0.00006	0.00006
	(A1 * !A2 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B1 * !YN)	-0.00041	-0.00041	-0.00041
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00000	-0.00000	0.00000
	(A1 * !A2 * B0 * !B1 * !YN)	0.00005	0.00005	0.00005
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00041	-0.00041	-0.00040
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * !A2 * B1 * !YN)	0.00005	0.00006	0.00006
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00041	-0.00041	-0.00041
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	0.00005	0.00005	0.00005
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	-0.00041	-0.00041	-0.00040
	(!A0 * !A1 * !A2 * B1 * YN)	0.00030	0.00030	0.00030
	(!A0 * !A1 * !A2 * B1 * YN)	0.00003	0.00004	0.00004
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	0.00029	0.00029	0.00029
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	0.00004	0.00004	0.00005
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	0.00034	0.00034	0.00034
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	0.00001	0.00002	0.00002
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	-0.00005	-0.00005	-0.00004
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	-0.00003	-0.00003	-0.00003

OAI33X3H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI33 cell provides the logical inverted AND of two OR groups. The output (Y) is represented by the logic equation:

Truth Table

INPUT						OUTPUT
A0	A1	A2	B0	B1	B2	YN
0	0	0	x	x	x	1
0	x	1	0	0	0	1
0	x	1	0	x	1	0
0	x	1	x	1	x	0
0	x	1	1	x	x	0
x	1	x	0	0	0	1
x	1	x	0	x	1	0
x	1	x	x	1	x	0
x	1	x	1	x	x	0
1	x	x	0	0	0	1
1	x	x	0	x	1	0
1	x	x	x	1	x	0
1	x	x	1	x	x	0

Footprint

Cell Name	Area
OAI33X3H7H	5.32000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	**A1**	**A2**	**B0**	**B1**	**B2**	**YN**
OAI33X3H7H	0.00179	0.00179	0.00189	0.00199	0.00190	0.00188	0.02521

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
OAI33X3H7H	0.00000	0.03837	0.08349

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI33X3H7H	A0->YN (FR)	0.11250	0.27774	0.72576
	A1->YN (FR)	0.10897	0.27743	0.74694
	A2->YN (FR)	0.09732	0.25977	0.71886
	B0->YN (FR)	0.06071	0.21686	0.67943
	B1->YN (FR)	0.07308	0.23573	0.70605
	B2->YN (FR)	0.07590	0.23655	0.68466

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI33X3H7H	A0->YN (RF)	0.05509	0.16989	0.49893
	A1->YN (RF)	0.05218	0.16558	0.49385
	A2->YN (RF)	0.04752	0.15950	0.48749
	B0->YN (RF)	0.03592	0.14060	0.47255
	B1->YN (RF)	0.04073	0.14732	0.47932
	B2->YN (RF)	0.04352	0.15173	0.48462

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI33X3H7H	A0	0.00525	0.00532	0.00537
	A0	-0.00040	-0.00040	-0.00037
	A0	0.00053	0.00053	0.00053
	A0	-0.00004	0.00001	0.00006
	A1	0.00476	0.00483	0.00488
	A1	-0.00032	-0.00030	-0.00026
	A1	0.00053	0.00053	0.00053
	A1	-0.00002	0.00003	0.00008
	A2	0.00411	0.00424	0.00432
	A2	-0.00015	-0.00015	-0.00013
	A2	0.00053	0.00053	0.00053
	A2	-0.00012	-0.00005	0.00001
	B0	0.00316	0.00326	0.00335
	B0	-0.00016	-0.00015	-0.00014
	B0	0.00016	0.00020	0.00021
	B0	-0.00013	-0.00004	0.00005
	B1	0.00376	0.00383	0.00391
	B1	-0.00028	-0.00028	-0.00026
	B1	0.00020	0.00021	0.00022
	B1	-0.00002	0.00006	0.00013
	B2	0.00424	0.00431	0.00437
	B2	-0.00041	-0.00040	-0.00039
	B2	0.00019	0.00021	0.00022
	B2	-0.00003	0.00004	0.00011

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI33X3H7H	A0	-0.00016	-0.00011	-0.00008
	A0	0.00064	0.00065	0.00065
	A0	-0.00050	-0.00050	-0.00049
	A0	0.00486	0.00493	0.00498
	A1	-0.00015	-0.00008	-0.00004
	A1	0.00050	0.00053	0.00053
	A1	-0.00050	-0.00050	-0.00049
	A1	0.00451	0.00458	0.00462
	A2	-0.00010	-0.00002	0.00003
	A2	0.00038	0.00040	0.00043
	A2	-0.00050	-0.00049	-0.00049
	A2	0.00416	0.00424	0.00429
	B0	-0.00016	-0.00006	0.00000
	B0	0.00036	0.00040	0.00043
	B0	-0.00021	-0.00020	-0.00016
	B0	0.00287	0.00295	0.00302
	B1	-0.00019	-0.00011	-0.00005
	B1	0.00051	0.00053	0.00054
	B1	-0.00021	-0.00020	-0.00018
	B1	0.00318	0.00328	0.00335
	B2	-0.00021	-0.00015	-0.00010
	B2	0.00063	0.00065	0.00065
	B2	-0.00021	-0.00020	-0.00018
	B2	0.00352	0.00361	0.00368

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X3H7H	**(A1 * A2 * B0 * !YN)**	-0.00028	-0.00025	-0.00020
	(A1 * A2 * B0 * !YN)	-0.00006	-0.00006	-0.00006
	(A1 * A2 * B0 * !YN)	0.00001	0.00001	0.00001
	(A1 * A2 * B0 * !YN)	0.00060	0.00060	0.00061
	(A1 * A2 * !B0 * B1 * !YN)	-0.00028	-0.00025	-0.00020
	(A1 * A2 * !B0 * B1 * !YN)	-0.00006	-0.00006	-0.00006
	(A1 * A2 * !B0 * B1 * !YN)	0.00001	0.00001	0.00001
	(A1 * A2 * !B0 * B1 * !YN)	0.00060	0.00061	0.00061
	(A1 * A2 * !B0 * !B1 * B2 * !YN)	-0.00028	-0.00025	-0.00020
	(A1 * A2 * !B0 * !B1 * B2 * !YN)	-0.00006	-0.00006	-0.00006
	(A1 * A2 * !B0 * !B1 * B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * A2 * !B0 * !B1 * B2 * !YN)	0.00060	0.00061	0.00061
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00028	-0.00026	-0.00021
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00006	-0.00006	-0.00006
	(A1 * !B0 * !B1 * !B2 * YN)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * !B2 * YN)	0.00060	0.00060	0.00061
	(A1 * !A2 * B0 * !YN)	-0.00028	-0.00025	-0.00020
	(A1 * !A2 * B0 * !YN)	-0.00006	-0.00006	-0.00005
	(A1 * !A2 * B0 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * !YN)	0.00060	0.00061	0.00061
	(A1 * !A2 * !B0 * B1 * !YN)	-0.00028	-0.00025	-0.00020
	(A1 * !A2 * !B0 * B1 * !YN)	-0.00006	-0.00006	-0.00005
	(A1 * !A2 * !B0 * B1 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * !B0 * B1 * !YN)	0.00060	0.00060	0.00061
	(A1 * !A2 * !B0 * !B1 * B2 * !YN)	-0.00028	-0.00025	-0.00020
	(A1 * !A2 * !B0 * !B1 * B2 * !YN)	-0.00006	-0.00006	-0.00005
	(A1 * !A2 * !B0 * !B1 * B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * !B0 * !B1 * B2 * !YN)	0.00060	0.00061	0.00061
	(!A1 * A2 * B0 * !YN)	-0.00027	-0.00023	-0.00018
	(!A1 * A2 * B0 * !YN)	-0.00006	-0.00006	-0.00005
	(!A1 * A2 * B0 * !YN)	0.00001	0.00001	0.00001
	(!A1 * A2 * B0 * !YN)	0.00060	0.00061	0.00061
	(!A1 * A2 * !B0 * B1 * !YN)	-0.00027	-0.00023	-0.00018
	(!A1 * A2 * !B0 * B1 * !YN)	-0.00006	-0.00006	-0.00005
	(!A1 * A2 * !B0 * B1 * !YN)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * B1 * !YN)	0.00060	0.00061	0.00061
	(!A1 * A2 * !B0 * !B1 * B2 * !YN)	-0.00027	-0.00023	-0.00018
	(!A1 * A2 * !B0 * !B1 * B2 * !YN)	-0.00006	-0.00006	-0.00005
	(!A1 * A2 * !B0 * !B1 * B2 * !YN)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * !B1 * B2 * !YN)	0.00060	0.00061	0.00061
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	-0.00027	-0.00024	-0.00019
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	-0.00006	-0.00006	-0.00005
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	0.00060	0.00060	0.00060
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00039	-0.00038	-0.00038
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00002	-0.00002	-0.00001
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	0.00004	0.00004	0.00004
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	0.00048	0.00049	0.00049

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X3H7H	**(A1 * A2 * B0 * !YN)**	0.00028	0.00028	0.00028
	(A1 * A2 * B0 * !YN)	0.00006	0.00006	0.00006
	(A1 * A2 * B0 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B0 * !YN)	-0.00060	-0.00060	-0.00059
	(A1 * A2 * !B0 * B1 * !YN)	0.00027	0.00028	0.00028
	(A1 * A2 * !B0 * B1 * !YN)	0.00006	0.00006	0.00006
	(A1 * A2 * !B0 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * !B0 * B1 * !YN)	-0.00060	-0.00060	-0.00059
	(A1 * A2 * !B0 * !B1 * B2 * !YN)	0.00028	0.00028	0.00028
	(A1 * A2 * !B0 * !B1 * B2 * !YN)	0.00006	0.00006	0.00006
	(A1 * A2 * !B0 * !B1 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * !B0 * !B1 * B2 * !YN)	-0.00060	-0.00060	-0.00060
	(A1 * !B0 * !B1 * !B2 * YN)	0.00028	0.00028	0.00028
	(A1 * !B0 * !B1 * !B2 * YN)	0.00006	0.00006	0.00006
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00060	-0.00060	-0.00059
	(A1 * !A2 * B0 * !YN)	0.00028	0.00028	0.00028
	(A1 * !A2 * B0 * !YN)	0.00005	0.00006	0.00006
	(A1 * !A2 * B0 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * !YN)	-0.00060	-0.00060	-0.00059
	(A1 * !A2 * !B0 * B1 * !YN)	0.00028	0.00028	0.00028
	(A1 * !A2 * !B0 * B1 * !YN)	0.00005	0.00006	0.00006
	(A1 * !A2 * !B0 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !B0 * B1 * !YN)	-0.00060	-0.00060	-0.00059
	(A1 * !A2 * !B0 * !B1 * B2 * !YN)	0.00028	0.00028	0.00028
	(A1 * !A2 * !B0 * !B1 * B2 * !YN)	0.00005	0.00006	0.00006
	(A1 * !A2 * !B0 * !B1 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !B0 * !B1 * B2 * !YN)	-0.00060	-0.00060	-0.00059
	(!A1 * A2 * B0 * !YN)	0.00026	0.00027	0.00027
	(!A1 * A2 * B0 * !YN)	0.00005	0.00006	0.00006
	(!A1 * A2 * B0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * B0 * !YN)	-0.00060	-0.00060	-0.00060
	(!A1 * A2 * !B0 * B1 * !YN)	0.00026	0.00027	0.00027
	(!A1 * A2 * !B0 * B1 * !YN)	0.00005	0.00006	0.00006
	(!A1 * A2 * !B0 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * B1 * !YN)	-0.00060	-0.00060	-0.00060
	(!A1 * A2 * !B0 * !B1 * B2 * !YN)	0.00026	0.00027	0.00027
	(!A1 * A2 * !B0 * !B1 * B2 * !YN)	0.00005	0.00006	0.00006
	(!A1 * A2 * !B0 * !B1 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * !B1 * B2 * !YN)	-0.00060	-0.00060	-0.00060
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	0.00027	0.00027	0.00027
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	0.00005	0.00006	0.00006
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	-0.00060	-0.00060	-0.00059
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	0.00039	0.00039	0.00040
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	0.00001	0.00003	0.00003
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00004	-0.00004	-0.00004
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00048	-0.00045	-0.00040

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X3H7H	**(A0 * A2 * B0 * !YN)**	-0.00000	-0.00000	0.00000
	(A0 * A2 * B0 * !YN)	-0.00015	-0.00015	-0.00015
	(A0 * A2 * B0 * !YN)	0.00001	0.00001	0.00001
	(A0 * A2 * B0 * !YN)	0.00059	0.00060	0.00060
	(A0 * A2 * !B0 * B1 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * A2 * !B0 * B1 * !YN)	-0.00015	-0.00015	-0.00015
	(A0 * A2 * !B0 * B1 * !YN)	0.00001	0.00001	0.00001
	(A0 * A2 * !B0 * B1 * !YN)	0.00059	0.00060	0.00060
	(A0 * A2 * !B0 * !B1 * B2 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * A2 * !B0 * !B1 * B2 * !YN)	-0.00015	-0.00015	-0.00015
	(A0 * A2 * !B0 * !B1 * B2 * !YN)	0.00001	0.00001	0.00001
	(A0 * A2 * !B0 * !B1 * B2 * !YN)	0.00059	0.00060	0.00060
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00002	-0.00002	-0.00002
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00016	-0.00015	-0.00015
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00001	0.00001	0.00001
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00057	0.00057	0.00057
	(A0 * !A2 * B0 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !YN)	-0.00012	-0.00012	-0.00012
	(A0 * !A2 * B0 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A2 * B0 * !YN)	0.00059	0.00059	0.00059
	(A0 * !A2 * !B0 * B1 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A2 * !B0 * B1 * !YN)	-0.00012	-0.00012	-0.00012
	(A0 * !A2 * !B0 * B1 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B0 * B1 * !YN)	0.00059	0.00059	0.00059
	(A0 * !A2 * !B0 * !B1 * B2 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A2 * !B0 * !B1 * B2 * !YN)	-0.00012	-0.00012	-0.00012
	(A0 * !A2 * !B0 * !B1 * B2 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B0 * !B1 * B2 * !YN)	0.00059	0.00059	0.00060
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00033	-0.00030	-0.00025
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00006	-0.00006	-0.00005
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00053	0.00053	0.00054
	(!A0 * A2 * B0 * !YN)	-0.00035	-0.00031	-0.00026
	(!A0 * A2 * B0 * !YN)	-0.00006	-0.00005	-0.00005
	(!A0 * A2 * B0 * !YN)	0.00001	0.00001	0.00001
	(!A0 * A2 * B0 * !YN)	0.00054	0.00055	0.00056
	(!A0 * A2 * !B0 * B1 * !YN)	-0.00035	-0.00031	-0.00026
	(!A0 * A2 * !B0 * B1 * !YN)	-0.00006	-0.00005	-0.00005
	(!A0 * A2 * !B0 * B1 * !YN)	0.00001	0.00001	0.00001
	(!A0 * A2 * !B0 * B1 * !YN)	0.00054	0.00055	0.00056
	(!A0 * A2 * !B0 * !B1 * B2 * !YN)	-0.00035	-0.00031	-0.00026
	(!A0 * A2 * !B0 * !B1 * B2 * !YN)	-0.00006	-0.00005	-0.00005
	(!A0 * A2 * !B0 * !B1 * B2 * !YN)	0.00001	0.00001	0.00001
	(!A0 * A2 * !B0 * !B1 * B2 * !YN)	0.00054	0.00055	0.00056
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00035	-0.00032	-0.00027
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00006	-0.00005	-0.00005
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00001	0.00001	0.00001
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00054	0.00054	0.00054
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00044	-0.00044	-0.00043
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00003	-0.00002	-0.00002
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00004	0.00004	0.00004
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00042	0.00042	0.00043

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X3H7H	**(A0 * A2 * B0 * !YN)**	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * !YN)	0.00015	0.00015	0.00015
	(A0 * A2 * B0 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * A2 * B0 * !YN)	-0.00059	-0.00059	-0.00059
	(A0 * A2 * !B0 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * A2 * !B0 * B1 * !YN)	0.00015	0.00015	0.00015
	(A0 * A2 * !B0 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * A2 * !B0 * B1 * !YN)	-0.00059	-0.00059	-0.00059
	(A0 * A2 * !B0 * !B1 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * A2 * !B0 * !B1 * B2 * !YN)	0.00015	0.00015	0.00015
	(A0 * A2 * !B0 * !B1 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * A2 * !B0 * !B1 * B2 * !YN)	-0.00059	-0.00059	-0.00059
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00002	0.00002	0.00002
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00015	0.00015	0.00016
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00057	-0.00057	-0.00057
	(A0 * !A2 * B0 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * !A2 * B0 * !YN)	0.00012	0.00013	0.00013
	(A0 * !A2 * B0 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * B0 * !YN)	-0.00059	-0.00059	-0.00058
	(A0 * !A2 * !B0 * B1 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * !A2 * !B0 * B1 * !YN)	0.00012	0.00013	0.00013
	(A0 * !A2 * !B0 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B0 * B1 * !YN)	-0.00059	-0.00059	-0.00058
	(A0 * !A2 * !B0 * !B1 * B2 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A2 * !B0 * !B1 * B2 * !YN)	0.00013	0.00013	0.00013
	(A0 * !A2 * !B0 * !B1 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B0 * !B1 * B2 * !YN)	-0.00059	-0.00059	-0.00059
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00033	0.00033	0.00033
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00005	0.00006	0.00006
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00054	-0.00053	-0.00052
	(!A0 * A2 * B0 * !YN)	0.00034	0.00034	0.00035
	(!A0 * A2 * B0 * !YN)	0.00005	0.00005	0.00006
	(!A0 * A2 * B0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B0 * !YN)	-0.00054	-0.00054	-0.00053
	(!A0 * A2 * !B0 * B1 * !YN)	0.00034	0.00034	0.00035
	(!A0 * A2 * !B0 * B1 * !YN)	0.00005	0.00005	0.00006
	(!A0 * A2 * !B0 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * !B0 * B1 * !YN)	-0.00054	-0.00054	-0.00053
	(!A0 * A2 * !B0 * !B1 * B2 * !YN)	0.00034	0.00034	0.00035
	(!A0 * A2 * !B0 * !B1 * B2 * !YN)	0.00005	0.00005	0.00006
	(!A0 * A2 * !B0 * !B1 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * !B0 * !B1 * B2 * !YN)	-0.00054	-0.00054	-0.00053
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00034	0.00035	0.00035
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00005	0.00006	0.00006
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00054	-0.00053	-0.00053
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00043	0.00044	0.00044
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00002	0.00003	0.00003
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00004	-0.00004	-0.00004
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00042	-0.00039	-0.00033

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X3H7H	**(A1 * B0 * !YN)**	-0.00000	-0.00000	0.00000
	(A1 * B0 * !YN)	-0.00008	-0.00008	-0.00008
	(A1 * B0 * !YN)	0.00001	0.00001	0.00001
	(A1 * B0 * !YN)	0.00072	0.00072	0.00073
	(A1 * !B0 * B1 * !YN)	-0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * !YN)	-0.00008	-0.00008	-0.00008
	(A1 * !B0 * B1 * !YN)	0.00001	0.00001	0.00001
	(A1 * !B0 * B1 * !YN)	0.00072	0.00072	0.00073
	(A1 * !B0 * !B1 * B2 * !YN)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * !B1 * B2 * !YN)	-0.00008	-0.00008	-0.00008
	(A1 * !B0 * !B1 * B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * B2 * !YN)	0.00072	0.00072	0.00073
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00034	-0.00030	-0.00026
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00006	-0.00006	-0.00005
	(A1 * !B0 * !B1 * !B2 * YN)	0.00000	0.00001	0.00001
	(A1 * !B0 * !B1 * !B2 * YN)	0.00052	0.00053	0.00053
	(A0 * !A1 * B0 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !YN)	-0.00008	-0.00008	-0.00008
	(A0 * !A1 * B0 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * B0 * !YN)	0.00072	0.00072	0.00073
	(A0 * !A1 * !B0 * B1 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * !B0 * B1 * !YN)	-0.00008	-0.00008	-0.00008
	(A0 * !A1 * !B0 * B1 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B0 * B1 * !YN)	0.00072	0.00072	0.00073
	(A0 * !A1 * !B0 * !B1 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B0 * !B1 * B2 * !YN)	-0.00008	-0.00008	-0.00008
	(A0 * !A1 * !B0 * !B1 * B2 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B0 * !B1 * B2 * !YN)	0.00072	0.00072	0.00073
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00032	-0.00028	-0.00024
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00007	-0.00006	-0.00005
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00052	0.00053	0.00053
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00043	-0.00043	-0.00043
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00003	-0.00002	-0.00002
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00042	0.00042	0.00042

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X3H7H	**(A1 * B0 * !YN)**	-0.00000	0.00000	0.00000
	(A1 * B0 * !YN)	0.00008	0.00008	0.00008
	(A1 * B0 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !YN)	-0.00072	-0.00072	-0.00071
	(A1 * !B0 * B1 * !YN)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * B1 * !YN)	0.00008	0.00008	0.00008
	(A1 * !B0 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * B1 * !YN)	-0.00073	-0.00072	-0.00071
	(A1 * !B0 * !B1 * B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * B2 * !YN)	0.00008	0.00008	0.00008
	(A1 * !B0 * !B1 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * B2 * !YN)	-0.00073	-0.00072	-0.00072
	(A1 * !B0 * !B1 * !B2 * YN)	0.00034	0.00034	0.00034
	(A1 * !B0 * !B1 * !B2 * YN)	0.00006	0.00006	0.00006
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00053	-0.00052	-0.00052
	(A0 * !A1 * B0 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !YN)	0.00008	0.00008	0.00008
	(A0 * !A1 * B0 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B0 * !YN)	-0.00072	-0.00072	-0.00071
	(A0 * !A1 * !B0 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B0 * B1 * !YN)	0.00008	0.00008	0.00008
	(A0 * !A1 * !B0 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B0 * B1 * !YN)	-0.00073	-0.00072	-0.00071
	(A0 * !A1 * !B0 * !B1 * B2 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A1 * !B0 * !B1 * B2 * !YN)	0.00008	0.00008	0.00008
	(A0 * !A1 * !B0 * !B1 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B0 * !B1 * B2 * !YN)	-0.00072	-0.00072	-0.00071
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00032	0.00032	0.00032
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00005	0.00006	0.00007
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00053	-0.00052	-0.00051
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00043	0.00043	0.00044
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00002	0.00003	0.00003
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00042	-0.00038	-0.00033

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X3H7H	**(A2 * B1 * !YN)**	-0.00000	0.00000	0.00000
	(A2 * B1 * !YN)	-0.00008	-0.00008	-0.00008
	(A2 * B1 * !YN)	0.00001	0.00001	0.00001
	(A2 * B1 * !YN)	0.00074	0.00075	0.00075
	(A2 * !B1 * B2 * !YN)	-0.00000	-0.00000	0.00000
	(A2 * !B1 * B2 * !YN)	-0.00008	-0.00008	-0.00008
	(A2 * !B1 * B2 * !YN)	0.00001	0.00001	0.00001
	(A2 * !B1 * B2 * !YN)	0.00074	0.00075	0.00075
	(A1 * !A2 * B1 * !YN)	-0.00000	-0.00000	0.00000
	(A1 * !A2 * B1 * !YN)	-0.00008	-0.00008	-0.00008
	(A1 * !A2 * B1 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B1 * !YN)	0.00074	0.00075	0.00075
	(A1 * !A2 * !B1 * B2 * !YN)	-0.00000	0.00000	0.00000
	(A1 * !A2 * !B1 * B2 * !YN)	-0.00008	-0.00008	-0.00008
	(A1 * !A2 * !B1 * B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * !B1 * B2 * !YN)	0.00074	0.00075	0.00075
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00008	-0.00008	-0.00008
	(A0 * !A1 * !A2 * B1 * !YN)	0.00001	0.00001	0.00002
	(A0 * !A1 * !A2 * B1 * !YN)	0.00074	0.00075	0.00075
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	-0.00008	-0.00008	-0.00007
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	0.00074	0.00074	0.00075
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00057	-0.00053	-0.00048
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00006	-0.00006	-0.00005
	(!A0 * !A1 * !A2 * B1 * YN)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !A2 * B1 * YN)	0.00010	0.00010	0.00011
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	-0.00055	-0.00050	-0.00046
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	-0.00007	-0.00006	-0.00006
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	0.00005	0.00006	0.00006
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	0.00010	0.00010	0.00011
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	-0.00066	-0.00065	-0.00064
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	-0.00003	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	0.00008	0.00009	0.00009

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X3H7H	**(A2 * B1 * !YN)**	-0.00000	-0.00000	0.00000
	(A2 * B1 * !YN)	0.00008	0.00008	0.00008
	(A2 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A2 * B1 * !YN)	-0.00075	-0.00074	-0.00074
	(A2 * !B1 * B2 * !YN)	-0.00000	0.00000	0.00000
	(A2 * !B1 * B2 * !YN)	0.00008	0.00008	0.00008
	(A2 * !B1 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A2 * !B1 * B2 * !YN)	-0.00075	-0.00074	-0.00074
	(A1 * !A2 * B1 * !YN)	-0.00000	0.00000	0.00000
	(A1 * !A2 * B1 * !YN)	0.00008	0.00008	0.00009
	(A1 * !A2 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B1 * !YN)	-0.00075	-0.00074	-0.00074
	(A1 * !A2 * !B1 * B2 * !YN)	-0.00000	-0.00000	0.00000
	(A1 * !A2 * !B1 * B2 * !YN)	0.00008	0.00008	0.00008
	(A1 * !A2 * !B1 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !B1 * B2 * !YN)	-0.00075	-0.00074	-0.00074
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B1 * !YN)	0.00008	0.00008	0.00009
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00075	-0.00074	-0.00074
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	0.00008	0.00008	0.00008
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	-0.00075	-0.00074	-0.00074
	(!A0 * !A1 * !A2 * B1 * YN)	0.00057	0.00057	0.00057
	(!A0 * !A1 * !A2 * B1 * YN)	0.00005	0.00006	0.00006
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00010	-0.00010	-0.00009
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	0.00055	0.00055	0.00055
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	0.00006	0.00006	0.00007
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	-0.00006	-0.00006	-0.00005
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	-0.00010	-0.00010	-0.00009
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	0.00065	0.00065	0.00066
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	-0.00009	-0.00009	-0.00008

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

	(A2 * B0 * B2 * !YN)	-0.00000	-0.00000	0.00000
	(A2 * B0 * B2 * !YN)	-0.00015	-0.00015	-0.00015
	(A2 * B0 * B2 * !YN)	0.00001	0.00001	0.00001
	(A2 * B0 * B2 * !YN)	0.00060	0.00060	0.00061
	(A2 * B0 * !B2 * !YN)	-0.00034	-0.00031	-0.00025
	(A2 * B0 * !B2 * !YN)	-0.00005	-0.00005	-0.00005
	(A2 * B0 * !B2 * !YN)	0.00001	0.00001	0.00001
	(A2 * B0 * !B2 * !YN)	0.00055	0.00056	0.00057
	(A2 * !B0 * B2 * !YN)	-0.00000	0.00000	0.00000
	(A2 * !B0 * B2 * !YN)	-0.00012	-0.00012	-0.00012
	(A2 * !B0 * B2 * !YN)	0.00001	0.00001	0.00001
	(A2 * !B0 * B2 * !YN)	0.00060	0.00060	0.00060
	(A1 * !A2 * B0 * B2 * !YN)	-0.00000	-0.00000	0.00000
	(A1 * !A2 * B0 * B2 * !YN)	-0.00015	-0.00015	-0.00015
	(A1 * !A2 * B0 * B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * B2 * !YN)	0.00060	0.00060	0.00061
	(A1 * !A2 * B0 * !B2 * !YN)	-0.00034	-0.00031	-0.00026
	(A1 * !A2 * B0 * !B2 * !YN)	-0.00005	-0.00005	-0.00005
	(A1 * !A2 * B0 * !B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * !B2 * !YN)	0.00055	0.00056	0.00057
	(A1 * !A2 * !B0 * B2 * !YN)	-0.00000	-0.00000	0.00000
	(A1 * !A2 * !B0 * B2 * !YN)	-0.00012	-0.00012	-0.00012
	(A1 * !A2 * !B0 * B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * !B0 * B2 * !YN)	0.00060	0.00060	0.00060
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	-0.00015	-0.00015	-0.00014
OAI33X3H7H	**(A0 * !A1 * !A2 * B0 * B2 * !YN)**	0.00001	0.00001	0.00001
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	0.00060	0.00060	0.00061
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	-0.00034	-0.00031	-0.00026
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	-0.00006	-0.00005	-0.00005
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	0.00055	0.00056	0.00057
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	-0.00012	-0.00012	-0.00012
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	0.00060	0.00060	0.00060
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	-0.00027	-0.00026	-0.00026
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	-0.00015	-0.00015	-0.00015
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	0.00005	0.00005	0.00006
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	0.00012	0.00013	0.00013
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	-0.00058	-0.00055	-0.00050
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	-0.00006	-0.00006	-0.00005
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	0.00009	0.00010	0.00010
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	-0.00057	-0.00053	-0.00049
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	-0.00006	-0.00006	-0.00005
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	0.00009	0.00009	0.00010
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	-0.00066	-0.00065	-0.00064
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	-0.00003	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	0.00008	0.00009	0.00009

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X3H7H	**(A2 * B0 * B2 * !YN)**	0.00000	0.00000	0.00000
	(A2 * B0 * B2 * !YN)	0.00015	0.00015	0.00015
	(A2 * B0 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A2 * B0 * B2 * !YN)	-0.00061	-0.00060	-0.00060
	(A2 * B0 * !B2 * !YN)	0.00034	0.00034	0.00034
	(A2 * B0 * !B2 * !YN)	0.00005	0.00005	0.00006
	(A2 * B0 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A2 * B0 * !B2 * !YN)	-0.00055	-0.00055	-0.00055
	(A2 * !B0 * B2 * !YN)	-0.00000	-0.00000	0.00000
	(A2 * !B0 * B2 * !YN)	0.00012	0.00013	0.00013
	(A2 * !B0 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A2 * !B0 * B2 * !YN)	-0.00060	-0.00060	-0.00059
	(A1 * !A2 * B0 * B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * B2 * !YN)	0.00015	0.00015	0.00015
	(A1 * !A2 * B0 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * B2 * !YN)	-0.00060	-0.00060	-0.00059
	(A1 * !A2 * B0 * !B2 * !YN)	0.00034	0.00034	0.00034
	(A1 * !A2 * B0 * !B2 * !YN)	0.00005	0.00005	0.00005
	(A1 * !A2 * B0 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * !B2 * !YN)	-0.00055	-0.00055	-0.00054
	(A1 * !A2 * !B0 * B2 * !YN)	-0.00000	0.00000	0.00000
	(A1 * !A2 * !B0 * B2 * !YN)	0.00013	0.00013	0.00013
	(A1 * !A2 * !B0 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !B0 * B2 * !YN)	-0.00060	-0.00060	-0.00060
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	0.00014	0.00015	0.00015
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	-0.00060	-0.00060	-0.00059
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	0.00034	0.00034	0.00034
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	0.00005	0.00006	0.00006
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	-0.00055	-0.00055	-0.00055
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	0.00012	0.00013	0.00013
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	-0.00060	-0.00060	-0.00059
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	0.00026	0.00026	0.00027
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	0.00015	0.00015	0.00015
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	-0.00012	-0.00012	-0.00012
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	0.00058	0.00058	0.00058
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	0.00005	0.00006	0.00006
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	-0.00010	-0.00009	-0.00009
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	0.00057	0.00057	0.00057
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	0.00005	0.00006	0.00006
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	0.00065	0.00066	0.00066
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	0.00002	0.00003	0.00004
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	-0.00006	-0.00006	-0.00005
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	-0.00008	-0.00008	-0.00008

Passive power(pJ) for B2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X3H7H	**(A2 * B0 * B1 * !YN)**	-0.00028	-0.00025	-0.00020
	(A2 * B0 * B1 * !YN)	-0.00006	-0.00006	-0.00006
	(A2 * B0 * B1 * !YN)	0.00001	0.00001	0.00001
	(A2 * B0 * B1 * !YN)	0.00060	0.00060	0.00061
	(A2 * B0 * !B1 * !YN)	-0.00027	-0.00023	-0.00018
	(A2 * B0 * !B1 * !YN)	-0.00006	-0.00006	-0.00005
	(A2 * B0 * !B1 * !YN)	0.00001	0.00001	0.00001
	(A2 * B0 * !B1 * !YN)	0.00060	0.00060	0.00061
	(A2 * !B0 * B1 * !YN)	-0.00028	-0.00025	-0.00020
	(A2 * !B0 * B1 * !YN)	-0.00006	-0.00006	-0.00005
	(A2 * !B0 * B1 * !YN)	0.00001	0.00001	0.00001
	(A2 * !B0 * B1 * !YN)	0.00060	0.00060	0.00060
	(A1 * !A2 * B0 * B1 * !YN)	-0.00028	-0.00025	-0.00020
	(A1 * !A2 * B0 * B1 * !YN)	-0.00006	-0.00006	-0.00006
	(A1 * !A2 * B0 * B1 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * B1 * !YN)	0.00060	0.00060	0.00061
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00027	-0.00023	-0.00018
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00006	-0.00006	-0.00005
	(A1 * !A2 * B0 * !B1 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * !B1 * !YN)	0.00060	0.00060	0.00061
	(A1 * !A2 * !B0 * B1 * !YN)	-0.00028	-0.00025	-0.00020
	(A1 * !A2 * !B0 * B1 * !YN)	-0.00006	-0.00006	-0.00005
	(A1 * !A2 * !B0 * B1 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * !B0 * B1 * !YN)	0.00060	0.00060	0.00061
	(A0 * !A1 * !A2 * B0 * B1 * !YN)	-0.00028	-0.00025	-0.00020
	(A0 * !A1 * !A2 * B0 * B1 * !YN)	-0.00006	-0.00006	-0.00006
	(A0 * !A1 * !A2 * B0 * B1 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !A2 * B0 * B1 * !YN)	0.00060	0.00060	0.00060
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	-0.00027	-0.00023	-0.00018
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	-0.00006	-0.00006	-0.00006
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	0.00060	0.00060	0.00061
	(A0 * !A1 * !A2 * !B0 * B1 * !YN)	-0.00028	-0.00025	-0.00020
	(A0 * !A1 * !A2 * !B0 * B1 * !YN)	-0.00006	-0.00006	-0.00005
	(A0 * !A1 * !A2 * !B0 * B1 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !A2 * !B0 * B1 * !YN)	0.00060	0.00060	0.00061
	(!A0 * !A1 * !A2 * B0 * B1 * YN)	-0.00050	-0.00047	-0.00043
	(!A0 * !A1 * !A2 * B0 * B1 * YN)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !A2 * B0 * B1 * YN)	0.00005	0.00006	0.00006
	(!A0 * !A1 * !A2 * B0 * B1 * YN)	0.00015	0.00015	0.00015
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	-0.00049	-0.00046	-0.00041
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	-0.00006	-0.00006	-0.00004
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	0.00015	0.00015	0.00016
	(!A0 * !A1 * !A2 * !B0 * B1 * YN)	-0.00051	-0.00048	-0.00044
	(!A0 * !A1 * !A2 * !B0 * B1 * YN)	-0.00006	-0.00006	-0.00005
	(!A0 * !A1 * !A2 * !B0 * B1 * YN)	0.00005	0.00006	0.00006
	(!A0 * !A1 * !A2 * !B0 * B1 * YN)	0.00014	0.00015	0.00015
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	-0.00059	-0.00058	-0.00058
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	0.00006	0.00006	0.00007
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	0.00014	0.00014	0.00015

Passive power(pJ) for B2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X3H7H	**(A2 * B0 * B1 * !YN)**	0.00027	0.00028	0.00028
	(A2 * B0 * B1 * !YN)	0.00006	0.00006	0.00006
	(A2 * B0 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A2 * B0 * B1 * !YN)	-0.00060	-0.00060	-0.00059
	(A2 * B0 * !B1 * !YN)	0.00026	0.00026	0.00027
	(A2 * B0 * !B1 * !YN)	0.00005	0.00006	0.00006
	(A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A2 * B0 * !B1 * !YN)	-0.00060	-0.00060	-0.00060
	(A2 * !B0 * B1 * !YN)	0.00027	0.00028	0.00028
	(A2 * !B0 * B1 * !YN)	0.00006	0.00006	0.00006
	(A2 * !B0 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A2 * !B0 * B1 * !YN)	-0.00060	-0.00060	-0.00059
	(A1 * !A2 * B0 * B1 * !YN)	0.00028	0.00028	0.00028
	(A1 * !A2 * B0 * B1 * !YN)	0.00006	0.00006	0.00006
	(A1 * !A2 * B0 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * B1 * !YN)	-0.00060	-0.00060	-0.00060
	(A1 * !A2 * B0 * !B1 * !YN)	0.00026	0.00026	0.00027
	(A1 * !A2 * B0 * !B1 * !YN)	0.00005	0.00006	0.00006
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00060	-0.00060	-0.00059
	(A1 * !A2 * !B0 * B1 * !YN)	0.00027	0.00028	0.00028
	(A1 * !A2 * !B0 * B1 * !YN)	0.00005	0.00006	0.00006
	(A1 * !A2 * !B0 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !B0 * B1 * !YN)	-0.00060	-0.00060	-0.00059
	(A0 * !A1 * !A2 * B0 * B1 * !YN)	0.00027	0.00028	0.00028
	(A0 * !A1 * !A2 * B0 * B1 * !YN)	0.00006	0.00006	0.00006
	(A0 * !A1 * !A2 * B0 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !A2 * B0 * B1 * !YN)	-0.00060	-0.00060	-0.00060
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	0.00026	0.00026	0.00027
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	0.00006	0.00006	0.00006
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	-0.00060	-0.00060	-0.00060
	(A0 * !A1 * !A2 * !B0 * B1 * !YN)	0.00028	0.00028	0.00028
	(A0 * !A1 * !A2 * !B0 * B1 * !YN)	0.00006	0.00006	0.00006
	(A0 * !A1 * !A2 * !B0 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !A2 * !B0 * B1 * !YN)	-0.00060	-0.00060	-0.00060
	(!A0 * !A1 * !A2 * B0 * B1 * YN)	0.00050	0.00050	0.00050
	(!A0 * !A1 * !A2 * B0 * B1 * YN)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !A2 * B0 * B1 * YN)	-0.00006	-0.00006	-0.00005
	(!A0 * !A1 * !A2 * B0 * B1 * YN)	-0.00015	-0.00015	-0.00014
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	0.00049	0.00049	0.00049
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	0.00004	0.00006	0.00006
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	-0.00015	-0.00015	-0.00015
	(!A0 * !A1 * !A2 * !B0 * B1 * YN)	0.00051	0.00051	0.00051
	(!A0 * !A1 * !A2 * !B0 * B1 * YN)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !A2 * !B0 * B1 * YN)	-0.00006	-0.00006	-0.00005
	(!A0 * !A1 * !A2 * !B0 * B1 * YN)	-0.00015	-0.00015	-0.00014
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	0.00059	0.00059	0.00059
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	0.00002	0.00003	0.00003
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	-0.00014	-0.00014	-0.00014

OAI33X4H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI33 cell provides the logical inverted AND of two OR groups. The output (Y) is represented by the logic equation:

Truth Table

INPUT						OUTPUT
A0	A1	A2	B0	B1	B2	YN
0	0	0	x	x	x	1
0	x	1	0	0	0	1
0	x	1	0	x	1	0
0	x	1	x	1	x	0
0	x	1	1	x	x	0
x	1	x	0	0	0	1
x	1	x	0	x	1	0
x	1	x	x	1	x	0
x	1	x	1	x	x	0
1	x	x	0	0	0	1
1	x	x	0	x	1	0
1	x	x	x	1	x	0
1	x	x	1	x	x	0

Footprint

Cell Name	Area
OAI33X4H7H	5.60000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	**A1**	**A2**	**B0**	**B1**	**B2**	**YN**
OAI33X4H7H	0.00208	0.00206	0.00221	0.00230	0.00223	0.00221	0.03186

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
OAI33X4H7H	0.00000	0.05867	0.16323

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI33X4H7H	A0->YN (FR)	0.10367	0.27146	0.72725
	A1->YN (FR)	0.09982	0.27083	0.74827
	A2->YN (FR)	0.08888	0.25371	0.72180
	B0->YN (FR)	0.05448	0.21301	0.68450
	B1->YN (FR)	0.06634	0.23136	0.71030
	B2->YN (FR)	0.06946	0.23270	0.68906

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI33X4H7H	A0->YN (RF)	0.05120	0.16652	0.49959
	A1->YN (RF)	0.04830	0.16208	0.49407
	A2->YN (RF)	0.04374	0.15609	0.48794
	B0->YN (RF)	0.03292	0.13756	0.47270
	B1->YN (RF)	0.03774	0.14421	0.47835
	B2->YN (RF)	0.04056	0.14897	0.48433

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI33X4H7H	A0	0.00622	0.00631	0.00637
	A0	-0.00054	-0.00053	-0.00052
	A0	0.00069	0.00070	0.00070
	A0	-0.00019	-0.00013	-0.00008
	A1	0.00564	0.00571	0.00577
	A1	-0.00038	-0.00037	-0.00032
	A1	0.00069	0.00070	0.00070
	A1	-0.00015	-0.00009	-0.00004
	A2	0.00488	0.00501	0.00510
	A2	-0.00022	-0.00021	-0.00019
	A2	0.00069	0.00069	0.00070
	A2	-0.00024	-0.00017	-0.00009
	B0	0.00371	0.00381	0.00392
	B0	-0.00021	-0.00020	-0.00019
	B0	0.00026	0.00027	0.00028
	B0	-0.00026	-0.00016	-0.00005
	B1	0.00444	0.00452	0.00460
	B1	-0.00038	-0.00037	-0.00036
	B1	0.00026	0.00027	0.00028
	B1	-0.00016	-0.00007	0.00001
	B2	0.00502	0.00510	0.00518
	B2	-0.00053	-0.00053	-0.00052
	B2	0.00026	0.00027	0.00028
	B2	-0.00019	-0.00010	-0.00002

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI33X4H7H	A0	-0.00025	-0.00019	-0.00015
	A0	0.00084	0.00086	0.00086
	A0	-0.00066	-0.00065	-0.00065
	A0	0.00585	0.00594	0.00599
	A1	-0.00025	-0.00016	-0.00009
	A1	0.00065	0.00070	0.00073
	A1	-0.00066	-0.00065	-0.00065
	A1	0.00539	0.00548	0.00552
	A2	-0.00023	-0.00012	-0.00005
	A2	0.00050	0.00053	0.00053
	A2	-0.00067	-0.00065	-0.00065
	A2	0.00493	0.00503	0.00509
	B0	-0.00026	-0.00015	-0.00007
	B0	0.00051	0.00053	0.00064
	B0	-0.00027	-0.00027	-0.00024
	B0	0.00337	0.00349	0.00357
	B1	-0.00035	-0.00026	-0.00011
	B1	0.00058	0.00070	0.00074
	B1	-0.00027	-0.00027	-0.00025
	B1	0.00380	0.00393	0.00401
	B2	-0.00029	-0.00022	-0.00016
	B2	0.00083	0.00085	0.00086
	B2	-0.00027	-0.00027	-0.00024
	B2	0.00426	0.00438	0.00446

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X4H7H	**(A1 * A2 * B0 * !YN)**	-0.00036	-0.00032	-0.00026
	(A1 * A2 * B0 * !YN)	-0.00008	-0.00007	-0.00007
	(A1 * A2 * B0 * !YN)	0.00001	0.00002	0.00002
	(A1 * A2 * B0 * !YN)	0.00067	0.00067	0.00067
	(A1 * A2 * !B0 * B1 * !YN)	-0.00035	-0.00032	-0.00026
	(A1 * A2 * !B0 * B1 * !YN)	-0.00008	-0.00007	-0.00007
	(A1 * A2 * !B0 * B1 * !YN)	0.00001	0.00001	0.00002
	(A1 * A2 * !B0 * B1 * !YN)	0.00067	0.00067	0.00067
	(A1 * A2 * !B0 * !B1 * B2 * !YN)	-0.00036	-0.00032	-0.00026
	(A1 * A2 * !B0 * !B1 * B2 * !YN)	-0.00008	-0.00007	-0.00007
	(A1 * A2 * !B0 * !B1 * B2 * !YN)	0.00001	0.00002	0.00002
	(A1 * A2 * !B0 * !B1 * B2 * !YN)	0.00067	0.00067	0.00068
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00036	-0.00032	-0.00027
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00008	-0.00007	-0.00007
	(A1 * !B0 * !B1 * !B2 * YN)	0.00001	0.00002	0.00002
	(A1 * !B0 * !B1 * !B2 * YN)	0.00066	0.00066	0.00067
	(A1 * !A2 * B0 * !YN)	-0.00036	-0.00032	-0.00026
	(A1 * !A2 * B0 * !YN)	-0.00007	-0.00007	-0.00007
	(A1 * !A2 * B0 * !YN)	0.00001	0.00002	0.00002
	(A1 * !A2 * B0 * !YN)	0.00067	0.00067	0.00068
	(A1 * !A2 * !B0 * B1 * !YN)	-0.00036	-0.00032	-0.00026
	(A1 * !A2 * !B0 * B1 * !YN)	-0.00007	-0.00007	-0.00007
	(A1 * !A2 * !B0 * B1 * !YN)	0.00001	0.00002	0.00002
	(A1 * !A2 * !B0 * B1 * !YN)	0.00067	0.00067	0.00068
	(A1 * !A2 * !B0 * !B1 * B2 * !YN)	-0.00036	-0.00032	-0.00026
	(A1 * !A2 * !B0 * !B1 * B2 * !YN)	-0.00007	-0.00007	-0.00007
	(A1 * !A2 * !B0 * !B1 * B2 * !YN)	0.00001	0.00002	0.00002
	(A1 * !A2 * !B0 * !B1 * B2 * !YN)	0.00067	0.00067	0.00067
	(!A1 * A2 * B0 * !YN)	-0.00034	-0.00030	-0.00024
	(!A1 * A2 * B0 * !YN)	-0.00008	-0.00008	-0.00007
	(!A1 * A2 * B0 * !YN)	0.00001	0.00002	0.00002
	(!A1 * A2 * B0 * !YN)	0.00067	0.00067	0.00068
	(!A1 * A2 * !B0 * B1 * !YN)	-0.00034	-0.00030	-0.00023
	(!A1 * A2 * !B0 * B1 * !YN)	-0.00008	-0.00008	-0.00007
	(!A1 * A2 * !B0 * B1 * !YN)	0.00001	0.00002	0.00002
	(!A1 * A2 * !B0 * B1 * !YN)	0.00067	0.00067	0.00067
	(!A1 * A2 * !B0 * !B1 * B2 * !YN)	-0.00034	-0.00030	-0.00023
	(!A1 * A2 * !B0 * !B1 * B2 * !YN)	-0.00008	-0.00008	-0.00007
	(!A1 * A2 * !B0 * !B1 * B2 * !YN)	0.00001	0.00002	0.00002
	(!A1 * A2 * !B0 * !B1 * B2 * !YN)	0.00067	0.00067	0.00068
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	-0.00034	-0.00030	-0.00024
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	-0.00009	-0.00008	-0.00007
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	0.00001	0.00001	0.00002
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	0.00066	0.00067	0.00067
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00048	-0.00048	-0.00047
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00003	-0.00003	-0.00001
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	0.00005	0.00005	0.00005
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	0.00053	0.00053	0.00054

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X4H7H	**(A1 * A2 * B0 * !YN)**	0.00035	0.00035	0.00036
	(A1 * A2 * B0 * !YN)	0.00007	0.00007	0.00008
	(A1 * A2 * B0 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B0 * !YN)	-0.00067	-0.00067	-0.00066
	(A1 * A2 * !B0 * B1 * !YN)	0.00035	0.00035	0.00035
	(A1 * A2 * !B0 * B1 * !YN)	0.00007	0.00008	0.00008
	(A1 * A2 * !B0 * B1 * !YN)	-0.00002	-0.00001	-0.00001
	(A1 * A2 * !B0 * B1 * !YN)	-0.00067	-0.00067	-0.00066
	(A1 * A2 * !B0 * !B1 * B2 * !YN)	0.00035	0.00035	0.00036
	(A1 * A2 * !B0 * !B1 * B2 * !YN)	0.00007	0.00007	0.00008
	(A1 * A2 * !B0 * !B1 * B2 * !YN)	-0.00002	-0.00001	-0.00001
	(A1 * A2 * !B0 * !B1 * B2 * !YN)	-0.00067	-0.00067	-0.00066
	(A1 * !B0 * !B1 * !B2 * YN)	0.00035	0.00036	0.00036
	(A1 * !B0 * !B1 * !B2 * YN)	0.00007	0.00007	0.00008
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00066	-0.00066	-0.00065
	(A1 * !A2 * B0 * !YN)	0.00035	0.00036	0.00036
	(A1 * !A2 * B0 * !YN)	0.00007	0.00007	0.00007
	(A1 * !A2 * B0 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * !YN)	-0.00067	-0.00067	-0.00066
	(A1 * !A2 * !B0 * B1 * !YN)	0.00035	0.00036	0.00036
	(A1 * !A2 * !B0 * B1 * !YN)	0.00007	0.00007	0.00007
	(A1 * !A2 * !B0 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !B0 * B1 * !YN)	-0.00067	-0.00066	-0.00066
	(A1 * !A2 * !B0 * !B1 * B2 * !YN)	0.00035	0.00036	0.00036
	(A1 * !A2 * !B0 * !B1 * B2 * !YN)	0.00007	0.00007	0.00007
	(A1 * !A2 * !B0 * !B1 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !B0 * !B1 * B2 * !YN)	-0.00067	-0.00067	-0.00066
	(!A1 * A2 * B0 * !YN)	0.00033	0.00034	0.00034
	(!A1 * A2 * B0 * !YN)	0.00007	0.00008	0.00008
	(!A1 * A2 * B0 * !YN)	-0.00002	-0.00001	-0.00001
	(!A1 * A2 * B0 * !YN)	-0.00067	-0.00067	-0.00066
	(!A1 * A2 * !B0 * B1 * !YN)	0.00033	0.00034	0.00034
	(!A1 * A2 * !B0 * B1 * !YN)	0.00008	0.00008	0.00008
	(!A1 * A2 * !B0 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * B1 * !YN)	-0.00067	-0.00066	-0.00065
	(!A1 * A2 * !B0 * !B1 * B2 * !YN)	0.00033	0.00034	0.00034
	(!A1 * A2 * !B0 * !B1 * B2 * !YN)	0.00008	0.00008	0.00008
	(!A1 * A2 * !B0 * !B1 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * !B1 * B2 * !YN)	-0.00067	-0.00066	-0.00065
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	0.00034	0.00034	0.00034
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	0.00008	0.00008	0.00009
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	-0.00066	-0.00066	-0.00065
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	0.00048	0.00048	0.00049
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	0.00001	0.00003	0.00004
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00005	-0.00005	-0.00005
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00054	-0.00049	-0.00044

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X4H7H	**(A0 * A2 * B0 * !YN)**	-0.00000	-0.00000	0.00000
	(A0 * A2 * B0 * !YN)	-0.00020	-0.00020	-0.00020
	(A0 * A2 * B0 * !YN)	0.00001	0.00002	0.00002
	(A0 * A2 * B0 * !YN)	0.00063	0.00064	0.00064
	(A0 * A2 * !B0 * B1 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * A2 * !B0 * B1 * !YN)	-0.00020	-0.00020	-0.00020
	(A0 * A2 * !B0 * B1 * !YN)	0.00001	0.00001	0.00002
	(A0 * A2 * !B0 * B1 * !YN)	0.00063	0.00064	0.00064
	(A0 * A2 * !B0 * !B1 * B2 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * A2 * !B0 * !B1 * B2 * !YN)	-0.00020	-0.00020	-0.00020
	(A0 * A2 * !B0 * !B1 * B2 * !YN)	0.00001	0.00002	0.00002
	(A0 * A2 * !B0 * !B1 * B2 * !YN)	0.00063	0.00064	0.00064
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00002	-0.00002	-0.00002
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00022	-0.00021	-0.00020
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00001	0.00001	0.00002
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00060	0.00061	0.00062
	(A0 * !A2 * B0 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * !A2 * B0 * !YN)	-0.00017	-0.00016	-0.00016
	(A0 * !A2 * B0 * !YN)	0.00001	0.00002	0.00002
	(A0 * !A2 * B0 * !YN)	0.00063	0.00064	0.00064
	(A0 * !A2 * !B0 * B1 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A2 * !B0 * B1 * !YN)	-0.00017	-0.00016	-0.00016
	(A0 * !A2 * !B0 * B1 * !YN)	0.00001	0.00002	0.00002
	(A0 * !A2 * !B0 * B1 * !YN)	0.00063	0.00063	0.00064
	(A0 * !A2 * !B0 * !B1 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B0 * !B1 * B2 * !YN)	-0.00017	-0.00016	-0.00016
	(A0 * !A2 * !B0 * !B1 * B2 * !YN)	0.00001	0.00002	0.00002
	(A0 * !A2 * !B0 * !B1 * B2 * !YN)	0.00063	0.00063	0.00064
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00041	-0.00037	-0.00031
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00008	-0.00008	-0.00007
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00001	0.00001	0.00002
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00058	0.00059	0.00059
	(!A0 * A2 * B0 * !YN)	-0.00043	-0.00038	-0.00032
	(!A0 * A2 * B0 * !YN)	-0.00007	-0.00007	-0.00007
	(!A0 * A2 * B0 * !YN)	0.00001	0.00001	0.00002
	(!A0 * A2 * B0 * !YN)	0.00059	0.00060	0.00061
	(!A0 * A2 * !B0 * B1 * !YN)	-0.00043	-0.00038	-0.00032
	(!A0 * A2 * !B0 * B1 * !YN)	-0.00007	-0.00007	-0.00007
	(!A0 * A2 * !B0 * B1 * !YN)	0.00001	0.00001	0.00002
	(!A0 * A2 * !B0 * B1 * !YN)	0.00059	0.00060	0.00061
	(!A0 * A2 * !B0 * !B1 * B2 * !YN)	-0.00043	-0.00038	-0.00032
	(!A0 * A2 * !B0 * !B1 * B2 * !YN)	-0.00007	-0.00007	-0.00007
	(!A0 * A2 * !B0 * !B1 * B2 * !YN)	0.00001	0.00002	0.00002
	(!A0 * A2 * !B0 * !B1 * B2 * !YN)	0.00059	0.00060	0.00061
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00043	-0.00039	-0.00033
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00007	-0.00007	-0.00007
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00001	0.00002	0.00002
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00059	0.00059	0.00059
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00053	-0.00053	-0.00053
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00003	-0.00003	-0.00002
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00005	0.00005	0.00005
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00045	0.00046	0.00047

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X4H7H	**(A0 * A2 * B0 * !YN)**	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * !YN)	0.00020	0.00020	0.00020
	(A0 * A2 * B0 * !YN)	-0.00002	-0.00001	-0.00001
	(A0 * A2 * B0 * !YN)	-0.00063	-0.00063	-0.00062
	(A0 * A2 * !B0 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * A2 * !B0 * B1 * !YN)	0.00020	0.00020	0.00020
	(A0 * A2 * !B0 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * A2 * !B0 * B1 * !YN)	-0.00063	-0.00063	-0.00063
	(A0 * A2 * !B0 * !B1 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * A2 * !B0 * !B1 * B2 * !YN)	0.00020	0.00020	0.00020
	(A0 * A2 * !B0 * !B1 * B2 * !YN)	-0.00002	-0.00001	-0.00001
	(A0 * A2 * !B0 * !B1 * B2 * !YN)	-0.00063	-0.00063	-0.00063
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00002	0.00002	0.00002
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00020	0.00021	0.00022
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00061	-0.00061	-0.00060
	(A0 * !A2 * B0 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !YN)	0.00017	0.00017	0.00017
	(A0 * !A2 * B0 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * B0 * !YN)	-0.00063	-0.00063	-0.00062
	(A0 * !A2 * !B0 * B1 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * !A2 * !B0 * B1 * !YN)	0.00017	0.00017	0.00017
	(A0 * !A2 * !B0 * B1 * !YN)	-0.00002	-0.00001	-0.00001
	(A0 * !A2 * !B0 * B1 * !YN)	-0.00063	-0.00063	-0.00062
	(A0 * !A2 * !B0 * !B1 * B2 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A2 * !B0 * !B1 * B2 * !YN)	0.00017	0.00017	0.00017
	(A0 * !A2 * !B0 * !B1 * B2 * !YN)	-0.00002	-0.00001	-0.00001
	(A0 * !A2 * !B0 * !B1 * B2 * !YN)	-0.00063	-0.00063	-0.00063
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00041	0.00041	0.00041
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00007	0.00008	0.00008
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00059	-0.00058	-0.00058
	(!A0 * A2 * B0 * !YN)	0.00042	0.00042	0.00043
	(!A0 * A2 * B0 * !YN)	0.00007	0.00007	0.00007
	(!A0 * A2 * B0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B0 * !YN)	-0.00059	-0.00059	-0.00058
	(!A0 * A2 * !B0 * B1 * !YN)	0.00042	0.00042	0.00043
	(!A0 * A2 * !B0 * B1 * !YN)	0.00007	0.00007	0.00007
	(!A0 * A2 * !B0 * B1 * !YN)	-0.00002	-0.00001	-0.00001
	(!A0 * A2 * !B0 * B1 * !YN)	-0.00059	-0.00059	-0.00058
	(!A0 * A2 * !B0 * !B1 * B2 * !YN)	0.00042	0.00042	0.00043
	(!A0 * A2 * !B0 * !B1 * B2 * !YN)	0.00007	0.00007	0.00007
	(!A0 * A2 * !B0 * !B1 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * !B0 * !B1 * B2 * !YN)	-0.00059	-0.00059	-0.00058
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00042	0.00042	0.00043
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00007	0.00007	0.00008
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00002	-0.00001	-0.00001
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00059	-0.00059	-0.00058
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00053	0.00053	0.00054
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00002	0.00003	0.00003
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00005	-0.00005	-0.00005
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00047	-0.00042	-0.00036

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X4H7H	**(A1 * B0 * !YN)**	-0.00000	-0.00000	0.00000
	(A1 * B0 * !YN)	-0.00011	-0.00011	-0.00011
	(A1 * B0 * !YN)	0.00001	0.00002	0.00002
	(A1 * B0 * !YN)	0.00081	0.00081	0.00082
	(A1 * !B0 * B1 * !YN)	-0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * !YN)	-0.00011	-0.00011	-0.00010
	(A1 * !B0 * B1 * !YN)	0.00001	0.00001	0.00002
	(A1 * !B0 * B1 * !YN)	0.00081	0.00081	0.00082
	(A1 * !B0 * !B1 * B2 * !YN)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * !B1 * B2 * !YN)	-0.00011	-0.00011	-0.00011
	(A1 * !B0 * !B1 * B2 * !YN)	0.00001	0.00002	0.00002
	(A1 * !B0 * !B1 * B2 * !YN)	0.00081	0.00082	0.00082
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00042	-0.00038	-0.00032
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00008	-0.00007	-0.00007
	(A1 * !B0 * !B1 * !B2 * YN)	0.00001	0.00001	0.00002
	(A1 * !B0 * !B1 * !B2 * YN)	0.00058	0.00058	0.00059
	(A0 * !A1 * B0 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !YN)	-0.00010	-0.00010	-0.00010
	(A0 * !A1 * B0 * !YN)	0.00001	0.00002	0.00002
	(A0 * !A1 * B0 * !YN)	0.00081	0.00081	0.00082
	(A0 * !A1 * !B0 * B1 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * !B0 * B1 * !YN)	-0.00011	-0.00010	-0.00010
	(A0 * !A1 * !B0 * B1 * !YN)	0.00001	0.00002	0.00002
	(A0 * !A1 * !B0 * B1 * !YN)	0.00081	0.00081	0.00082
	(A0 * !A1 * !B0 * !B1 * B2 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A1 * !B0 * !B1 * B2 * !YN)	-0.00010	-0.00010	-0.00010
	(A0 * !A1 * !B0 * !B1 * B2 * !YN)	0.00001	0.00001	0.00002
	(A0 * !A1 * !B0 * !B1 * B2 * !YN)	0.00081	0.00081	0.00082
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00040	-0.00034	-0.00029
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00008	-0.00008	-0.00007
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00001	0.00001	0.00002
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00058	0.00058	0.00059
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00054	-0.00053	-0.00053
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00005	0.00005	0.00006
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00046	0.00046	0.00046

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X4H7H	**(A1 * B0 * !YN)**	-0.00000	0.00000	0.00000
	(A1 * B0 * !YN)	0.00011	0.00011	0.00011
	(A1 * B0 * !YN)	-0.00002	-0.00002	-0.00001
	(A1 * B0 * !YN)	-0.00082	-0.00081	-0.00081
	(A1 * !B0 * B1 * !YN)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * B1 * !YN)	0.00011	0.00011	0.00011
	(A1 * !B0 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * B1 * !YN)	-0.00082	-0.00081	-0.00080
	(A1 * !B0 * !B1 * B2 * !YN)	-0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * B2 * !YN)	0.00011	0.00011	0.00011
	(A1 * !B0 * !B1 * B2 * !YN)	-0.00002	-0.00002	-0.00001
	(A1 * !B0 * !B1 * B2 * !YN)	-0.00082	-0.00081	-0.00081
	(A1 * !B0 * !B1 * !B2 * YN)	0.00042	0.00042	0.00042
	(A1 * !B0 * !B1 * !B2 * YN)	0.00007	0.00007	0.00008
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00002	-0.00001	-0.00001
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00058	-0.00058	-0.00057
	(A0 * !A1 * B0 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !YN)	0.00011	0.00011	0.00011
	(A0 * !A1 * B0 * !YN)	-0.00002	-0.00002	-0.00001
	(A0 * !A1 * B0 * !YN)	-0.00082	-0.00081	-0.00081
	(A0 * !A1 * !B0 * B1 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A1 * !B0 * B1 * !YN)	0.00011	0.00011	0.00011
	(A0 * !A1 * !B0 * B1 * !YN)	-0.00002	-0.00002	-0.00001
	(A0 * !A1 * !B0 * B1 * !YN)	-0.00082	-0.00081	-0.00081
	(A0 * !A1 * !B0 * !B1 * B2 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * !B0 * !B1 * B2 * !YN)	0.00010	0.00011	0.00011
	(A0 * !A1 * !B0 * !B1 * B2 * !YN)	-0.00002	-0.00001	-0.00001
	(A0 * !A1 * !B0 * !B1 * B2 * !YN)	-0.00082	-0.00081	-0.00079
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00040	0.00040	0.00040
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00008	0.00008	0.00008
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00002	-0.00001	-0.00001
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00058	-0.00058	-0.00057
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00054	0.00054	0.00054
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00006	-0.00005	-0.00005
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00046	-0.00042	-0.00035

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X4H7H	**(A2 * B1 * !YN)**	-0.00000	0.00000	0.00000
	(A2 * B1 * !YN)	-0.00011	-0.00011	-0.00010
	(A2 * B1 * !YN)	0.00001	0.00002	0.00002
	(A2 * B1 * !YN)	0.00083	0.00084	0.00085
	(A2 * !B1 * B2 * !YN)	0.00000	0.00000	0.00000
	(A2 * !B1 * B2 * !YN)	-0.00010	-0.00010	-0.00010
	(A2 * !B1 * B2 * !YN)	0.00001	0.00002	0.00002
	(A2 * !B1 * B2 * !YN)	0.00084	0.00084	0.00085
	(A1 * !A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B1 * !YN)	-0.00011	-0.00011	-0.00010
	(A1 * !A2 * B1 * !YN)	0.00001	0.00002	0.00002
	(A1 * !A2 * B1 * !YN)	0.00084	0.00084	0.00084
	(A1 * !A2 * !B1 * B2 * !YN)	-0.00000	0.00000	0.00000
	(A1 * !A2 * !B1 * B2 * !YN)	-0.00010	-0.00010	-0.00010
	(A1 * !A2 * !B1 * B2 * !YN)	0.00001	0.00001	0.00002
	(A1 * !A2 * !B1 * B2 * !YN)	0.00083	0.00084	0.00084
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00011	-0.00011	-0.00011
	(A0 * !A1 * !A2 * B1 * !YN)	0.00001	0.00002	0.00002
	(A0 * !A1 * !A2 * B1 * !YN)	0.00084	0.00084	0.00085
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	-0.00011	-0.00010	-0.00010
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	0.00001	0.00002	0.00002
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	0.00084	0.00084	0.00084
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00066	-0.00061	-0.00055
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00008	-0.00007	-0.00007
	(!A0 * !A1 * !A2 * B1 * YN)	0.00007	0.00007	0.00008
	(!A0 * !A1 * !A2 * B1 * YN)	0.00009	0.00009	0.00010
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	-0.00064	-0.00057	-0.00052
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	-0.00009	-0.00008	-0.00007
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	0.00008	0.00008	0.00008
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	0.00009	0.00009	0.00010
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	-0.00077	-0.00076	-0.00075
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	0.00008	0.00008	0.00008
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	0.00007	0.00008	0.00008

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X4H7H	**(A2 * B1 * !YN)**	-0.00000	-0.00000	0.00000
	(A2 * B1 * !YN)	0.00011	0.00011	0.00011
	(A2 * B1 * !YN)	-0.00002	-0.00001	-0.00001
	(A2 * B1 * !YN)	-0.00084	-0.00084	-0.00083
	(A2 * !B1 * B2 * !YN)	-0.00000	-0.00000	0.00000
	(A2 * !B1 * B2 * !YN)	0.00010	0.00011	0.00011
	(A2 * !B1 * B2 * !YN)	-0.00002	-0.00001	-0.00001
	(A2 * !B1 * B2 * !YN)	-0.00084	-0.00084	-0.00083
	(A1 * !A2 * B1 * !YN)	-0.00000	0.00000	0.00000
	(A1 * !A2 * B1 * !YN)	0.00011	0.00011	0.00011
	(A1 * !A2 * B1 * !YN)	-0.00002	-0.00002	-0.00001
	(A1 * !A2 * B1 * !YN)	-0.00084	-0.00084	-0.00084
	(A1 * !A2 * !B1 * B2 * !YN)	-0.00000	-0.00000	0.00000
	(A1 * !A2 * !B1 * B2 * !YN)	0.00010	0.00011	0.00011
	(A1 * !A2 * !B1 * B2 * !YN)	-0.00002	-0.00001	-0.00001
	(A1 * !A2 * !B1 * B2 * !YN)	-0.00084	-0.00084	-0.00083
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B1 * !YN)	0.00011	0.00011	0.00012
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00002	-0.00002	-0.00001
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00085	-0.00084	-0.00083
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	0.00011	0.00011	0.00011
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	-0.00002	-0.00002	-0.00001
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	-0.00084	-0.00084	-0.00083
	(!A0 * !A1 * !A2 * B1 * YN)	0.00066	0.00066	0.00066
	(!A0 * !A1 * !A2 * B1 * YN)	0.00007	0.00007	0.00008
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00009	-0.00009	-0.00008
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	0.00063	0.00064	0.00064
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	0.00008	0.00008	0.00009
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	-0.00008	-0.00007	-0.00006
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	-0.00009	-0.00009	-0.00007
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	0.00076	0.00077	0.00078
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	0.00003	0.00003	0.00004
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	-0.00008	-0.00008	-0.00007

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X4H7H	**(A2 * B0 * B2 * !YN)**	-0.00000	-0.00000	-0.00000
	(A2 * B0 * B2 * !YN)	-0.00020	-0.00020	-0.00020
	(A2 * B0 * B2 * !YN)	0.00001	0.00002	0.00002
	(A2 * B0 * B2 * !YN)	0.00066	0.00066	0.00066
	(A2 * B0 * !B2 * !YN)	-0.00043	-0.00038	-0.00032
	(A2 * B0 * !B2 * !YN)	-0.00008	-0.00007	-0.00007
	(A2 * B0 * !B2 * !YN)	0.00001	0.00001	0.00002
	(A2 * B0 * !B2 * !YN)	0.00061	0.00062	0.00063
	(A2 * !B0 * B2 * !YN)	-0.00000	0.00000	0.00000
	(A2 * !B0 * B2 * !YN)	-0.00017	-0.00016	-0.00016
	(A2 * !B0 * B2 * !YN)	0.00001	0.00002	0.00002
	(A2 * !B0 * B2 * !YN)	0.00065	0.00066	0.00066
	(A1 * !A2 * B0 * B2 * !YN)	-0.00000	-0.00000	0.00000
	(A1 * !A2 * B0 * B2 * !YN)	-0.00020	-0.00020	-0.00020
	(A1 * !A2 * B0 * B2 * !YN)	0.00001	0.00002	0.00002
	(A1 * !A2 * B0 * B2 * !YN)	0.00065	0.00066	0.00066
	(A1 * !A2 * B0 * !B2 * !YN)	-0.00043	-0.00038	-0.00032
	(A1 * !A2 * B0 * !B2 * !YN)	-0.00007	-0.00007	-0.00007
	(A1 * !A2 * B0 * !B2 * !YN)	0.00001	0.00002	0.00002
	(A1 * !A2 * B0 * !B2 * !YN)	0.00061	0.00062	0.00064
	(A1 * !A2 * !B0 * B2 * !YN)	-0.00000	0.00000	0.00000
	(A1 * !A2 * !B0 * B2 * !YN)	-0.00017	-0.00017	-0.00017
	(A1 * !A2 * !B0 * B2 * !YN)	0.00001	0.00002	0.00002
	(A1 * !A2 * !B0 * B2 * !YN)	0.00066	0.00066	0.00066
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	-0.00020	-0.00020	-0.00020
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	0.00001	0.00002	0.00002
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	0.00065	0.00065	0.00066
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	-0.00043	-0.00038	-0.00032
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	-0.00008	-0.00007	-0.00007
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	0.00001	0.00002	0.00002
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	0.00061	0.00062	0.00064
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	-0.00017	-0.00016	-0.00016
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	0.00002	0.00002	0.00003
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	0.00064	0.00065	0.00066
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	-0.00027	-0.00027	-0.00027
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	-0.00021	-0.00020	-0.00020
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	0.00007	0.00007	0.00007
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	0.00011	0.00011	0.00011
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	-0.00068	-0.00064	-0.00058
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	-0.00008	-0.00007	-0.00007
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	0.00007	0.00007	0.00007
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	0.00009	0.00009	0.00009
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	-0.00066	-0.00062	-0.00056
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	-0.00008	-0.00008	-0.00007
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	0.00007	0.00007	0.00008
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	0.00008	0.00009	0.00009
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	-0.00078	-0.00077	-0.00076
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	-0.00003	-0.00003	-0.00001
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	0.00008	0.00008	0.00008
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	0.00007	0.00008	0.00008

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X4H7H	**(A2 * B0 * B2 * !YN)**	0.00000	0.00000	0.00000
	(A2 * B0 * B2 * !YN)	0.00020	0.00020	0.00020
	(A2 * B0 * B2 * !YN)	-0.00002	-0.00001	-0.00001
	(A2 * B0 * B2 * !YN)	-0.00066	-0.00065	-0.00065
	(A2 * B0 * !B2 * !YN)	0.00042	0.00043	0.00043
	(A2 * B0 * !B2 * !YN)	0.00007	0.00007	0.00008
	(A2 * B0 * !B2 * !YN)	-0.00002	-0.00001	-0.00001
	(A2 * B0 * !B2 * !YN)	-0.00061	-0.00061	-0.00061
	(A2 * !B0 * B2 * !YN)	-0.00000	-0.00000	0.00000
	(A2 * !B0 * B2 * !YN)	0.00017	0.00017	0.00017
	(A2 * !B0 * B2 * !YN)	-0.00002	-0.00001	-0.00001
	(A2 * !B0 * B2 * !YN)	-0.00066	-0.00065	-0.00065
	(A1 * !A2 * B0 * B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * B2 * !YN)	0.00020	0.00020	0.00020
	(A1 * !A2 * B0 * B2 * !YN)	-0.00002	-0.00001	-0.00001
	(A1 * !A2 * B0 * B2 * !YN)	-0.00066	-0.00065	-0.00065
	(A1 * !A2 * B0 * !B2 * !YN)	0.00042	0.00043	0.00043
	(A1 * !A2 * B0 * !B2 * !YN)	0.00007	0.00007	0.00007
	(A1 * !A2 * B0 * !B2 * !YN)	-0.00002	-0.00001	-0.00001
	(A1 * !A2 * B0 * !B2 * !YN)	-0.00061	-0.00061	-0.00060
	(A1 * !A2 * !B0 * B2 * !YN)	-0.00000	0.00000	0.00000
	(A1 * !A2 * !B0 * B2 * !YN)	0.00017	0.00017	0.00017
	(A1 * !A2 * !B0 * B2 * !YN)	-0.00002	-0.00001	-0.00001
	(A1 * !A2 * !B0 * B2 * !YN)	-0.00066	-0.00065	-0.00065
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	0.00020	0.00020	0.00020
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	-0.00002	-0.00001	-0.00001
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	-0.00066	-0.00065	-0.00064
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	0.00042	0.00043	0.00043
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	0.00007	0.00007	0.00008
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	-0.00002	-0.00002	-0.00001
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	-0.00061	-0.00061	-0.00061
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	0.00017	0.00017	0.00017
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	-0.00002	-0.00001	-0.00001
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	-0.00066	-0.00065	-0.00064
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	0.00027	0.00027	0.00027
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	0.00020	0.00020	0.00021
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	-0.00011	-0.00011	-0.00010
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	0.00068	0.00068	0.00068
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	0.00007	0.00007	0.00008
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	0.00066	0.00066	0.00066
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	0.00007	0.00008	0.00008
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	-0.00008	-0.00007	-0.00007
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	0.00077	0.00078	0.00078
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	0.00001	0.00003	0.00004
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	-0.00008	-0.00007	-0.00007
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	-0.00008	-0.00008	-0.00007

Passive power(pJ) for B2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X4H7H	**(A2 * B0 * B1 * !YN)**	-0.00035	-0.00032	-0.00026
	(A2 * B0 * B1 * !YN)	-0.00008	-0.00007	-0.00007
	(A2 * B0 * B1 * !YN)	0.00001	0.00002	0.00002
	(A2 * B0 * B1 * !YN)	0.00067	0.00067	0.00067
	(A2 * B0 * !B1 * !YN)	-0.00034	-0.00030	-0.00023
	(A2 * B0 * !B1 * !YN)	-0.00008	-0.00008	-0.00007
	(A2 * B0 * !B1 * !YN)	0.00001	0.00002	0.00002
	(A2 * B0 * !B1 * !YN)	0.00067	0.00067	0.00067
	(A2 * !B0 * B1 * !YN)	-0.00036	-0.00032	-0.00026
	(A2 * !B0 * B1 * !YN)	-0.00008	-0.00007	-0.00007
	(A2 * !B0 * B1 * !YN)	0.00001	0.00002	0.00002
	(A2 * !B0 * B1 * !YN)	0.00067	0.00067	0.00067
	(A1 * !A2 * B0 * B1 * !YN)	-0.00035	-0.00032	-0.00026
	(A1 * !A2 * B0 * B1 * !YN)	-0.00008	-0.00007	-0.00007
	(A1 * !A2 * B0 * B1 * !YN)	0.00001	0.00002	0.00002
	(A1 * !A2 * B0 * B1 * !YN)	0.00066	0.00067	0.00067
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00034	-0.00030	-0.00024
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00008	-0.00008	-0.00007
	(A1 * !A2 * B0 * !B1 * !YN)	0.00001	0.00002	0.00002
	(A1 * !A2 * B0 * !B1 * !YN)	0.00066	0.00067	0.00067
	(A1 * !A2 * !B0 * B1 * !YN)	-0.00036	-0.00032	-0.00026
	(A1 * !A2 * !B0 * B1 * !YN)	-0.00008	-0.00007	-0.00007
	(A1 * !A2 * !B0 * B1 * !YN)	0.00001	0.00002	0.00002
	(A1 * !A2 * !B0 * B1 * !YN)	0.00066	0.00067	0.00067
	(A0 * !A1 * !A2 * B0 * B1 * !YN)	-0.00036	-0.00032	-0.00026
	(A0 * !A1 * !A2 * B0 * B1 * !YN)	-0.00008	-0.00007	-0.00007
	(A0 * !A1 * !A2 * B0 * B1 * !YN)	0.00001	0.00002	0.00002
	(A0 * !A1 * !A2 * B0 * B1 * !YN)	0.00066	0.00067	0.00067
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	-0.00034	-0.00030	-0.00023
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	-0.00008	-0.00008	-0.00007
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	0.00001	0.00002	0.00002
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	0.00066	0.00067	0.00067
	(A0 * !A1 * !A2 * !B0 * B1 * !YN)	-0.00036	-0.00032	-0.00026
	(A0 * !A1 * !A2 * !B0 * B1 * !YN)	-0.00008	-0.00007	-0.00007
	(A0 * !A1 * !A2 * !B0 * B1 * !YN)	0.00001	0.00002	0.00002
	(A0 * !A1 * !A2 * !B0 * B1 * !YN)	0.00066	0.00067	0.00067
	(!A0 * !A1 * !A2 * B0 * B1 * YN)	-0.00059	-0.00056	-0.00050
	(!A0 * !A1 * !A2 * B0 * B1 * YN)	-0.00008	-0.00008	-0.00007
	(!A0 * !A1 * !A2 * B0 * B1 * YN)	0.00007	0.00008	0.00008
	(!A0 * !A1 * !A2 * B0 * B1 * YN)	0.00014	0.00014	0.00015
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	-0.00058	-0.00053	-0.00048
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	-0.00008	-0.00008	-0.00007
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	0.00008	0.00008	0.00008
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	0.00014	0.00015	0.00015
	(!A0 * !A1 * !A2 * !B0 * B1 * YN)	-0.00060	-0.00056	-0.00050
	(!A0 * !A1 * !A2 * !B0 * B1 * YN)	-0.00008	-0.00007	-0.00007
	(!A0 * !A1 * !A2 * !B0 * B1 * YN)	0.00007	0.00008	0.00008
	(!A0 * !A1 * !A2 * !B0 * B1 * YN)	0.00014	0.00014	0.00015
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	-0.00070	-0.00069	-0.00068
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	0.00008	0.00009	0.00009
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	0.00014	0.00014	0.00014

Passive power(pJ) for B2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

	(A2 * B0 * B1 * !YN)	0.00035	0.00035	0.00036
	(A2 * B0 * B1 * !YN)	0.00007	0.00007	0.00008
	(A2 * B0 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A2 * B0 * B1 * !YN)	-0.00067	-0.00066	-0.00066
	(A2 * B0 * !B1 * !YN)	0.00033	0.00034	0.00034
	(A2 * B0 * !B1 * !YN)	0.00008	0.00008	0.00008
	(A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A2 * B0 * !B1 * !YN)	-0.00067	-0.00066	-0.00066
	(A2 * !B0 * B1 * !YN)	0.00036	0.00036	0.00036
	(A2 * !B0 * B1 * !YN)	0.00007	0.00007	0.00008
	(A2 * !B0 * B1 * !YN)	-0.00002	-0.00001	-0.00001
	(A2 * !B0 * B1 * !YN)	-0.00067	-0.00067	-0.00066
	(A1 * !A2 * B0 * B1 * !YN)	0.00035	0.00035	0.00036
	(A1 * !A2 * B0 * B1 * !YN)	0.00007	0.00007	0.00008
	(A1 * !A2 * B0 * B1 * !YN)	-0.00002	-0.00001	-0.00001
	(A1 * !A2 * B0 * B1 * !YN)	-0.00067	-0.00066	-0.00066
	(A1 * !A2 * B0 * !B1 * !YN)	0.00033	0.00034	0.00034
	(A1 * !A2 * B0 * !B1 * !YN)	0.00008	0.00008	0.00008
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00067	-0.00066	-0.00066
	(A1 * !A2 * !B0 * B1 * !YN)	0.00035	0.00036	0.00036
	(A1 * !A2 * !B0 * B1 * !YN)	0.00007	0.00007	0.00008
	(A1 * !A2 * !B0 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !B0 * B1 * !YN)	-0.00067	-0.00066	-0.00066
	(A0 * !A1 * !A2 * B0 * B1 * !YN)	0.00035	0.00035	0.00036
	(A0 * !A1 * !A2 * B0 * B1 * !YN)	0.00007	0.00007	0.00008
OAI33X4H7H	**(A0 * !A1 * !A2 * B0 * B1 * !YN)**	-0.00002	-0.00001	-0.00001
	(A0 * !A1 * !A2 * B0 * B1 * !YN)	-0.00067	-0.00066	-0.00066
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	0.00034	0.00034	0.00034
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	0.00008	0.00008	0.00008
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	-0.00002	-0.00002	-0.00001
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	-0.00067	-0.00067	-0.00066
	(A0 * !A1 * !A2 * !B0 * B1 * !YN)	0.00035	0.00036	0.00036
	(A0 * !A1 * !A2 * !B0 * B1 * !YN)	0.00007	0.00007	0.00008
	(A0 * !A1 * !A2 * !B0 * B1 * !YN)	-0.00002	-0.00001	-0.00001
	(A0 * !A1 * !A2 * !B0 * B1 * !YN)	-0.00067	-0.00066	-0.00066
	(!A0 * !A1 * !A2 * B0 * B1 * YN)	0.00059	0.00059	0.00060
	(!A0 * !A1 * !A2 * B0 * B1 * YN)	0.00007	0.00008	0.00008
	(!A0 * !A1 * !A2 * B0 * B1 * YN)	-0.00008	-0.00008	-0.00007
	(!A0 * !A1 * !A2 * B0 * B1 * YN)	-0.00014	-0.00014	-0.00014
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	0.00057	0.00058	0.00058
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	0.00007	0.00008	0.00008
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	-0.00015	-0.00014	-0.00014
	(!A0 * !A1 * !A2 * !B0 * B1 * YN)	0.00059	0.00060	0.00060
	(!A0 * !A1 * !A2 * !B0 * B1 * YN)	0.00007	0.00007	0.00008
	(!A0 * !A1 * !A2 * !B0 * B1 * YN)	-0.00008	-0.00008	-0.00007
	(!A0 * !A1 * !A2 * !B0 * B1 * YN)	-0.00014	-0.00014	-0.00014
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	0.00070	0.00070	0.00071
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	0.00002	0.00003	0.00003
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	-0.00009	-0.00008	-0.00008
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	-0.00014	-0.00014	-0.00013

OAO211X0P5H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

OAO211 (Y = ((A0 + A1) • B0) + C0)

Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	Y
0	0	x	0	0
x	x	x	1	1
x	1	0	0	0
x	1	1	x	1
1	x	0	0	0
1	x	1	x	1

Footprint

Cell Name	Area
OAO211X0P5H7H	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	Y
OAO211X0P5H7H	0.00080	0.00077	0.00082	0.00090	0.03035

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAO211X0P5H7H	0.00000	0.01456	0.01690

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAO211X0P5H7H	A0->Y (RR)	0.08274	0.25719	0.68565
	A1->Y (RR)	0.08479	0.26102	0.69430
	B0->Y (RR)	0.07926	0.25057	0.66841
	C0->Y (RR)	0.05346	0.22113	0.63055

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAO211X0P5H7H	A0->Y (FF)	0.15717	0.30742	0.66995
	A1->Y (FF)	0.15946	0.30597	0.65671
	B0->Y (FF)	0.09869	0.24295	0.58933
	C0->Y (FF)	0.14083	0.28370	0.63255

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAO211X0P5H7H	A0	0.00041	0.00047	0.00052
	A0	0.00006	0.00006	0.00007
	A0	-0.00008	-0.00008	-0.00008
	A0	0.00158	0.00164	0.00169
	A1	0.00042	0.00047	0.00051
	A1	0.00010	0.00011	0.00011
	A1	-0.00008	-0.00008	-0.00008
	A1	0.00174	0.00179	0.00183
	B0	0.00040	0.00045	0.00051
	B0	0.00010	0.00011	0.00011
	B0	-0.00003	-0.00002	-0.00002
	B0	0.00141	0.00146	0.00152
	C0	0.00038	0.00045	0.00050
	C0	-0.00000	0.00000	0.00001
	C0	-0.00003	-0.00002	-0.00002
	C0	0.00140	0.00147	0.00152

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAO211X0P5H7H	A0	0.00169	0.00174	0.00180
	A0	-0.00007	-0.00006	-0.00006
	A0	0.00008	0.00008	0.00008
	A0	0.00052	0.00057	0.00062
	A1	0.00180	0.00186	0.00191
	A1	-0.00011	-0.00011	-0.00010
	A1	0.00008	0.00008	0.00008
	A1	0.00046	0.00052	0.00057
	B0	0.00155	0.00161	0.00166
	B0	-0.00007	-0.00006	-0.00006
	B0	0.00002	0.00003	0.00003
	B0	0.00046	0.00052	0.00057
	C0	0.00142	0.00147	0.00154
	C0	0.00000	0.00000	0.00001
	C0	0.00008	0.00008	0.00008
	C0	0.00045	0.00050	0.00057

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X0P5H7H	(A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * Y)	-0.00005	-0.00005	-0.00005
	(A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * Y)	0.00025	0.00025	0.00025
	(A1 * B0 * !C0 * Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * Y)	-0.00005	-0.00005	-0.00004
	(A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * Y)	0.00025	0.00025	0.00025
	(A1 * !B0 * C0 * Y)	-0.00012	-0.00011	-0.00010
	(A1 * !B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * C0 * Y)	0.00023	0.00023	0.00023
	(A1 * !B0 * !C0 * !Y)	-0.00012	-0.00011	-0.00010
	(A1 * !B0 * !C0 * !Y)	-0.00003	-0.00002	-0.00002
	(A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00001
	(A1 * !B0 * !C0 * !Y)	0.00023	0.00023	0.00023
	(!A1 * B0 * C0 * Y)	-0.00010	-0.00008	-0.00006
	(!A1 * B0 * C0 * Y)	-0.00003	-0.00002	-0.00002
	(!A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * C0 * Y)	0.00024	0.00024	0.00025
	(!A1 * !B0 * C0 * Y)	-0.00014	-0.00014	-0.00014
	(!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * Y)	0.00019	0.00019	0.00019
	(!A1 * !B0 * !C0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C0 * !Y)	0.00019	0.00019	0.00019

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X0P5H7H	(A1 * B0 * C0 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * C0 * Y)	0.00005	0.00005	0.00005
	(A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * Y)	-0.00025	-0.00025	-0.00025
	(A1 * B0 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !C0 * Y)	0.00005	0.00005	0.00005
	(A1 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * Y)	-0.00025	-0.00025	-0.00024
	(A1 * !B0 * C0 * Y)	0.00012	0.00012	0.00012
	(A1 * !B0 * C0 * Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * C0 * Y)	-0.00023	-0.00023	-0.00023
	(A1 * !B0 * !C0 * !Y)	0.00012	0.00012	0.00012
	(A1 * !B0 * !C0 * !Y)	0.00002	0.00002	0.00003
	(A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !C0 * !Y)	-0.00023	-0.00023	-0.00022
	(!A1 * B0 * C0 * Y)	0.00010	0.00010	0.00010
	(!A1 * B0 * C0 * Y)	0.00002	0.00002	0.00003
	(!A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * C0 * Y)	-0.00024	-0.00024	-0.00024
	(!A1 * !B0 * C0 * Y)	0.00014	0.00014	0.00014
	(!A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * Y)	-0.00019	-0.00018	-0.00016
	(!A1 * !B0 * !C0 * !Y)	0.00014	0.00014	0.00014
	(!A1 * !B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * !Y)	-0.00019	-0.00018	-0.00017

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X0P5H7H	(A0 * B0 * C0 * Y)	-0.00009	-0.00008	-0.00007
	(A0 * B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * Y)	0.00030	0.00030	0.00030
	(A0 * B0 * !C0 * Y)	-0.00009	-0.00008	-0.00007
	(A0 * B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * Y)	0.00030	0.00030	0.00030
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	-0.00009	-0.00008	-0.00007
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	0.00030	0.00030	0.00030
	(!A0 * B0 * C0 * Y)	-0.00008	-0.00007	-0.00006
	(!A0 * B0 * C0 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * C0 * Y)	0.00030	0.00030	0.00030
	(!A0 * !B0 * C0 * Y)	-0.00011	-0.00011	-0.00011
	(!A0 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * Y)	0.00001	0.00002	0.00001
	(!A0 * !B0 * C0 * Y)	0.00025	0.00025	0.00026
	(!A0 * !B0 * !C0 * !Y)	-0.00011	-0.00011	-0.00011
	(!A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !B0 * !C0 * !Y)	0.00025	0.00026	0.00026

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X0P5H7H	(A0 * B0 * C0 * Y)	0.00009	0.00009	0.00009
	(A0 * B0 * C0 * Y)	0.00002	0.00002	0.00002
	(A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * Y)	-0.00030	-0.00030	-0.00030
	(A0 * B0 * !C0 * Y)	0.00009	0.00009	0.00009
	(A0 * B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(A0 * B0 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * !C0 * Y)	-0.00030	-0.00030	-0.00030
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	0.00009	0.00009	0.00009
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	-0.00030	-0.00030	-0.00030
	(!A0 * B0 * C0 * Y)	0.00008	0.00008	0.00008
	(!A0 * B0 * C0 * Y)	0.00001	0.00002	0.00002
	(!A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * C0 * Y)	-0.00030	-0.00030	-0.00030
	(!A0 * !B0 * C0 * Y)	0.00011	0.00011	0.00011
	(!A0 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * Y)	-0.00026	-0.00024	-0.00022
	(!A0 * !B0 * !C0 * !Y)	0.00011	0.00011	0.00011
	(!A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !C0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * !Y)	-0.00026	-0.00024	-0.00022

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X0P5H7H	(A0 * C0 * Y)	-0.00010	-0.00009	-0.00006
	(A0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * C0 * Y)	0.00027	0.00027	0.00028
	(!A0 * A1 * C0 * Y)	-0.00010	-0.00008	-0.00007
	(!A0 * A1 * C0 * Y)	-0.00003	-0.00002	-0.00002
	(!A0 * A1 * C0 * Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * C0 * Y)	0.00027	0.00027	0.00027
	(!A0 * !A1 * C0 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !A1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * C0 * Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * C0 * Y)	0.00022	0.00022	0.00022
	(!A0 * !A1 * !C0 * !Y)	-0.00021	-0.00021	-0.00020
	(!A0 * !A1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !C0 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !C0 * !Y)	0.00007	0.00007	0.00007

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X0P5H7H	(A0 * C0 * Y)	0.00010	0.00010	0.00010
	(A0 * C0 * Y)	0.00002	0.00002	0.00002
	(A0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * C0 * Y)	-0.00027	-0.00027	-0.00027
	(!A0 * A1 * C0 * Y)	0.00009	0.00010	0.00010
	(!A0 * A1 * C0 * Y)	0.00002	0.00002	0.00003
	(!A0 * A1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * C0 * Y)	-0.00027	-0.00027	-0.00026
	(!A0 * !A1 * C0 * Y)	0.00014	0.00014	0.00014
	(!A0 * !A1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * C0 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * C0 * Y)	-0.00022	-0.00020	-0.00018
	(!A0 * !A1 * !C0 * !Y)	0.00021	0.00021	0.00021
	(!A0 * !A1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !C0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * !C0 * !Y)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X0P5H7H	(A0 * B0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * Y)	0.00034	0.00035	0.00035
	(!A0 * A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * Y)	0.00034	0.00034	0.00035

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X0P5H7H	(A0 * B0 * Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * Y)	0.00003	0.00003	0.00004
	(A0 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * Y)	-0.00035	-0.00034	-0.00034
	(!A0 * A1 * B0 * Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * B0 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * Y)	-0.00034	-0.00034	-0.00034

OAO211X0P7H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

```
OAO211 ( Y = ( (A0 + A1) • B0) + C0 )
```

Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	Y
0	0	x	0	0
x	x	x	1	1
x	1	0	0	0
x	1	1	x	1
1	x	0	0	0
1	x	1	x	1

Footprint

Cell Name	Area
OAO211X0P7H7H	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	Y
OAO211X0P7H7H	0.00081	0.00077	0.00081	0.00090	0.03458

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAO211X0P7H7H	0.00000	0.01587	0.01641

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAO211X0P7H7H	A0->Y (RR)	0.08233	0.25796	0.68926
	A1->Y (RR)	0.08404	0.26150	0.69728
	B0->Y (RR)	0.07837	0.25109	0.67205
	C0->Y (RR)	0.05175	0.22038	0.63185

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAO211X0P7H7H	A0->Y (FF)	0.15970	0.31243	0.67983
	A1->Y (FF)	0.16144	0.31042	0.66553
	B0->Y (FF)	0.09925	0.24577	0.59674
	C0->Y (FF)	0.14074	0.28575	0.63873

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAO211X0P7H7H	A0	0.00043	0.00049	0.00055
	A0	0.00006	0.00006	0.00006
	A0	-0.00008	-0.00007	-0.00007
	A0	0.00161	0.00167	0.00172
	A1	0.00045	0.00050	0.00054
	A1	0.00010	0.00010	0.00010
	A1	-0.00008	-0.00007	-0.00007
	A1	0.00176	0.00181	0.00186
	B0	0.00043	0.00049	0.00054
	B0	0.00010	0.00010	0.00010
	B0	-0.00002	-0.00002	-0.00002
	B0	0.00143	0.00149	0.00155
	C0	0.00040	0.00047	0.00053
	C0	-0.00000	-0.00000	0.00000
	C0	-0.00002	-0.00002	-0.00001
	C0	0.00141	0.00148	0.00154

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAO211X0P7H7H	A0	0.00174	0.00180	0.00185
	A0	-0.00006	-0.00006	-0.00006
	A0	0.00007	0.00007	0.00008
	A0	0.00057	0.00062	0.00068
	A1	0.00185	0.00190	0.00196
	A1	-0.00010	-0.00010	-0.00010
	A1	0.00007	0.00007	0.00008
	A1	0.00051	0.00056	0.00062
	B0	0.00160	0.00166	0.00171
	B0	-0.00006	-0.00006	-0.00006
	B0	0.00002	0.00002	0.00003
	B0	0.00051	0.00057	0.00062
	C0	0.00144	0.00149	0.00156
	C0	0.00000	0.00000	0.00002
	C0	0.00007	0.00007	0.00007
	C0	0.00048	0.00053	0.00060

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X0P7H7H	(A1 * B0 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * C0 * Y)	-0.00005	-0.00005	-0.00005
	(A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * Y)	0.00025	0.00026	0.00026
	(A1 * B0 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !C0 * Y)	-0.00004	-0.00004	-0.00004
	(A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * Y)	0.00025	0.00025	0.00025
	(A1 * !B0 * C0 * Y)	-0.00012	-0.00012	-0.00010
	(A1 * !B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * C0 * Y)	0.00023	0.00023	0.00023
	(A1 * !B0 * !C0 * !Y)	-0.00012	-0.00012	-0.00010
	(A1 * !B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !C0 * !Y)	0.00023	0.00023	0.00023
	(!A1 * B0 * C0 * Y)	-0.00010	-0.00008	-0.00006
	(!A1 * B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * C0 * Y)	0.00024	0.00024	0.00025
	(!A1 * !B0 * C0 * Y)	-0.00014	-0.00014	-0.00014
	(!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * Y)	0.00019	0.00019	0.00019
	(!A1 * !B0 * !C0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * !C0 * !Y)	0.00019	0.00019	0.00019

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X0P7H7H	(A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * Y)	0.00005	0.00005	0.00005
	(A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * Y)	-0.00026	-0.00025	-0.00025
	(A1 * B0 * !C0 * Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * Y)	0.00004	0.00005	0.00005
	(A1 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * Y)	-0.00025	-0.00025	-0.00025
	(A1 * !B0 * C0 * Y)	0.00012	0.00012	0.00012
	(A1 * !B0 * C0 * Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * C0 * Y)	-0.00023	-0.00023	-0.00023
	(A1 * !B0 * !C0 * !Y)	0.00012	0.00012	0.00012
	(A1 * !B0 * !C0 * !Y)	0.00001	0.00002	0.00002
	(A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !C0 * !Y)	-0.00023	-0.00023	-0.00023
	(!A1 * B0 * C0 * Y)	0.00010	0.00010	0.00010
	(!A1 * B0 * C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * C0 * Y)	-0.00024	-0.00024	-0.00024
	(!A1 * !B0 * C0 * Y)	0.00014	0.00014	0.00014
	(!A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * Y)	-0.00019	-0.00018	-0.00016
	(!A1 * !B0 * !C0 * !Y)	0.00014	0.00015	0.00015
	(!A1 * !B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !C0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * !Y)	-0.00019	-0.00018	-0.00017

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X0P7H7H	(A0 * B0 * C0 * Y)	-0.00009	-0.00008	-0.00007
	(A0 * B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * Y)	0.00030	0.00030	0.00030
	(A0 * B0 * !C0 * Y)	-0.00009	-0.00008	-0.00007
	(A0 * B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * Y)	0.00030	0.00030	0.00030
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	-0.00009	-0.00008	-0.00007
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	0.00029	0.00030	0.00030
	(!A0 * B0 * C0 * Y)	-0.00008	-0.00007	-0.00006
	(!A0 * B0 * C0 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * C0 * Y)	0.00030	0.00030	0.00030
	(!A0 * !B0 * C0 * Y)	-0.00011	-0.00011	-0.00011
	(!A0 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * Y)	0.00025	0.00025	0.00026
	(!A0 * !B0 * !C0 * !Y)	-0.00011	-0.00011	-0.00011
	(!A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !C0 * !Y)	0.00025	0.00025	0.00026

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X0P7H7H	(A0 * B0 * C0 * Y)	0.00009	0.00009	0.00009
	(A0 * B0 * C0 * Y)	0.00002	0.00002	0.00002
	(A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * Y)	-0.00030	-0.00030	-0.00029
	(A0 * B0 * !C0 * Y)	0.00009	0.00009	0.00009
	(A0 * B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(A0 * B0 * !C0 * Y)	-0.00000	-0.00000	0.00001
	(A0 * B0 * !C0 * Y)	-0.00030	-0.00030	-0.00030
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	0.00009	0.00009	0.00009
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	-0.00030	-0.00030	-0.00029
	(!A0 * B0 * C0 * Y)	0.00008	0.00008	0.00008
	(!A0 * B0 * C0 * Y)	0.00001	0.00002	0.00002
	(!A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * C0 * Y)	-0.00030	-0.00030	-0.00030
	(!A0 * !B0 * C0 * Y)	0.00011	0.00011	0.00011
	(!A0 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * Y)	-0.00026	-0.00024	-0.00022
	(!A0 * !B0 * !C0 * !Y)	0.00011	0.00011	0.00011
	(!A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * !Y)	-0.00026	-0.00024	-0.00022

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X0P7H7H	(A0 * C0 * Y)	-0.00010	-0.00009	-0.00006
	(A0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * C0 * Y)	0.00027	0.00027	0.00028
	(!A0 * A1 * C0 * Y)	-0.00010	-0.00008	-0.00006
	(!A0 * A1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * C0 * Y)	0.00027	0.00027	0.00027
	(!A0 * !A1 * C0 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !A1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * C0 * Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * C0 * Y)	0.00021	0.00022	0.00022
	(!A0 * !A1 * !C0 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !A1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !C0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * !C0 * !Y)	0.00007	0.00008	0.00008

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X0P7H7H	(A0 * C0 * Y)	0.00010	0.00010	0.00010
	(A0 * C0 * Y)	0.00002	0.00002	0.00002
	(A0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * C0 * Y)	-0.00027	-0.00027	-0.00027
	(!A0 * A1 * C0 * Y)	0.00010	0.00010	0.00010
	(!A0 * A1 * C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * C0 * Y)	-0.00027	-0.00027	-0.00027
	(!A0 * !A1 * C0 * Y)	0.00014	0.00014	0.00014
	(!A0 * !A1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * C0 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * C0 * Y)	-0.00022	-0.00020	-0.00018
	(!A0 * !A1 * !C0 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !A1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !C0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * !C0 * !Y)	-0.00008	-0.00008	-0.00007

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X0P7H7H	(A0 * B0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * Y)	0.00035	0.00035	0.00035
	(!A0 * A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * Y)	0.00034	0.00034	0.00035

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X0P7H7H	(A0 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * Y)	0.00003	0.00003	0.00004
	(A0 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * Y)	-0.00035	-0.00034	-0.00034
	(!A0 * A1 * B0 * Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * B0 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * Y)	-0.00034	-0.00034	-0.00034

OAO211X1H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

```
OAO211 ( Y = ( (A0 + A1) • B0) + C0 )
```

Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	Y
0	0	x	0	0
x	x	x	1	1
x	1	0	0	0
x	1	1	x	1
1	x	0	0	0
1	x	1	x	1

Footprint

Cell Name	Area
OAO211X1H7H	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	Y
OAO211X1H7H	0.00081	0.00077	0.00081	0.00090	0.04130

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAO211X1H7H	0.00000	0.01881	0.02074

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAO211X1H7H	A0->Y (RR)	0.08136	0.25813	0.69205
	A1->Y (RR)	0.08311	0.26169	0.69969
	B0->Y (RR)	0.07743	0.25145	0.67460
	C0->Y (RR)	0.05000	0.21995	0.63425

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAO211X1H7H	A0->Y (FF)	0.16136	0.31891	0.69646
	A1->Y (FF)	0.16313	0.31683	0.68167
	B0->Y (FF)	0.10012	0.25099	0.61186
	C0->Y (FF)	0.14253	0.29243	0.65541

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAO211X1H7H	A0	0.00048	0.00054	0.00060
	A0	0.00005	0.00005	0.00006
	A0	-0.00007	-0.00007	-0.00007
	A0	0.00164	0.00171	0.00176
	A1	0.00049	0.00055	0.00059
	A1	0.00010	0.00010	0.00010
	A1	-0.00007	-0.00007	-0.00007
	A1	0.00180	0.00185	0.00190
	B0	0.00048	0.00053	0.00059
	B0	0.00009	0.00010	0.00010
	B0	-0.00002	-0.00002	-0.00002
	B0	0.00147	0.00153	0.00159
	C0	0.00044	0.00051	0.00058
	C0	-0.00001	-0.00001	-0.00000
	C0	-0.00002	-0.00002	-0.00001
	C0	0.00144	0.00152	0.00158

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAO211X1H7H	A0	0.00177	0.00183	0.00189
	A0	-0.00006	-0.00005	-0.00005
	A0	0.00007	0.00007	0.00007
	A0	0.00061	0.00066	0.00072
	A1	0.00188	0.00194	0.00200
	A1	-0.00010	-0.00010	-0.00010
	A1	0.00007	0.00007	0.00007
	A1	0.00055	0.00061	0.00067
	B0	0.00163	0.00169	0.00174
	B0	-0.00005	-0.00005	-0.00005
	B0	0.00002	0.00002	0.00002
	B0	0.00055	0.00061	0.00067
	C0	0.00147	0.00153	0.00160
	C0	0.00001	0.00001	0.00002
	C0	0.00007	0.00007	0.00007
	C0	0.00052	0.00058	0.00065

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X1H7H	(A1 * B0 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * C0 * Y)	-0.00005	-0.00005	-0.00005
	(A1 * B0 * C0 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * C0 * Y)	0.00025	0.00026	0.00026
	(A1 * B0 * !C0 * Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * Y)	-0.00005	-0.00004	-0.00004
	(A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * Y)	0.00025	0.00025	0.00025
	(A1 * !B0 * C0 * Y)	-0.00012	-0.00012	-0.00010
	(A1 * !B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * C0 * Y)	0.00023	0.00023	0.00023
	(A1 * !B0 * !C0 * !Y)	-0.00012	-0.00012	-0.00010
	(A1 * !B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !C0 * !Y)	0.00023	0.00023	0.00023
	(!A1 * B0 * C0 * Y)	-0.00010	-0.00008	-0.00006
	(!A1 * B0 * C0 * Y)	-0.00003	-0.00002	-0.00002
	(!A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * C0 * Y)	0.00024	0.00025	0.00025
	(!A1 * !B0 * C0 * Y)	-0.00014	-0.00014	-0.00014
	(!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * Y)	0.00019	0.00019	0.00019
	(!A1 * !B0 * !C0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * !C0 * !Y)	0.00019	0.00019	0.00019

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X1H7H	(A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * Y)	0.00005	0.00005	0.00005
	(A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * Y)	-0.00025	-0.00025	-0.00025
	(A1 * B0 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !C0 * Y)	0.00004	0.00005	0.00005
	(A1 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * Y)	-0.00025	-0.00025	-0.00025
	(A1 * !B0 * C0 * Y)	0.00012	0.00012	0.00012
	(A1 * !B0 * C0 * Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * C0 * Y)	-0.00023	-0.00023	-0.00023
	(A1 * !B0 * !C0 * !Y)	0.00012	0.00012	0.00012
	(A1 * !B0 * !C0 * !Y)	0.00001	0.00002	0.00002
	(A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !C0 * !Y)	-0.00023	-0.00023	-0.00023
	(!A1 * B0 * C0 * Y)	0.00010	0.00010	0.00010
	(!A1 * B0 * C0 * Y)	0.00002	0.00002	0.00003
	(!A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * C0 * Y)	-0.00024	-0.00024	-0.00024
	(!A1 * !B0 * C0 * Y)	0.00014	0.00014	0.00014
	(!A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * Y)	-0.00019	-0.00018	-0.00016
	(!A1 * !B0 * !C0 * !Y)	0.00014	0.00015	0.00015
	(!A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * !Y)	-0.00019	-0.00018	-0.00017

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X1H7H	(A0 * B0 * C0 * Y)	-0.00009	-0.00008	-0.00007
	(A0 * B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * Y)	0.00030	0.00030	0.00030
	(A0 * B0 * !C0 * Y)	-0.00009	-0.00008	-0.00007
	(A0 * B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * Y)	0.00030	0.00030	0.00030
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	-0.00009	-0.00008	-0.00007
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	0.00029	0.00030	0.00030
	(!A0 * B0 * C0 * Y)	-0.00008	-0.00007	-0.00006
	(!A0 * B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * C0 * Y)	0.00030	0.00030	0.00030
	(!A0 * !B0 * C0 * Y)	-0.00011	-0.00011	-0.00011
	(!A0 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * Y)	0.00025	0.00025	0.00025
	(!A0 * !B0 * !C0 * !Y)	-0.00011	-0.00011	-0.00011
	(!A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !C0 * !Y)	0.00025	0.00025	0.00026

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X1H7H	(A0 * B0 * C0 * Y)	0.00009	0.00009	0.00009
	(A0 * B0 * C0 * Y)	0.00002	0.00002	0.00002
	(A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * Y)	-0.00030	-0.00030	-0.00029
	(A0 * B0 * !C0 * Y)	0.00009	0.00009	0.00009
	(A0 * B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(A0 * B0 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * !C0 * Y)	-0.00030	-0.00030	-0.00030
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	0.00009	0.00009	0.00009
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	-0.00030	-0.00030	-0.00029
	(!A0 * B0 * C0 * Y)	0.00008	0.00008	0.00008
	(!A0 * B0 * C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * C0 * Y)	-0.00030	-0.00030	-0.00030
	(!A0 * !B0 * C0 * Y)	0.00011	0.00011	0.00011
	(!A0 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * Y)	-0.00025	-0.00024	-0.00022
	(!A0 * !B0 * !C0 * !Y)	0.00011	0.00011	0.00011
	(!A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * !Y)	-0.00026	-0.00024	-0.00022

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X1H7H	(A0 * C0 * Y)	-0.00010	-0.00008	-0.00005
	(A0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * C0 * Y)	0.00027	0.00027	0.00028
	(!A0 * A1 * C0 * Y)	-0.00010	-0.00008	-0.00006
	(!A0 * A1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * C0 * Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * C0 * Y)	0.00027	0.00027	0.00027
	(!A0 * !A1 * C0 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !A1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * C0 * Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * C0 * Y)	0.00021	0.00022	0.00022
	(!A0 * !A1 * !C0 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !A1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !C0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * !C0 * !Y)	0.00007	0.00008	0.00008

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X1H7H	(A0 * C0 * Y)	0.00010	0.00010	0.00010
	(A0 * C0 * Y)	0.00002	0.00002	0.00002
	(A0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * C0 * Y)	-0.00027	-0.00027	-0.00027
	(!A0 * A1 * C0 * Y)	0.00010	0.00010	0.00010
	(!A0 * A1 * C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * C0 * Y)	-0.00027	-0.00027	-0.00026
	(!A0 * !A1 * C0 * Y)	0.00014	0.00014	0.00014
	(!A0 * !A1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * C0 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * C0 * Y)	-0.00022	-0.00020	-0.00018
	(!A0 * !A1 * !C0 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !A1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !C0 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * !A1 * !C0 * !Y)	-0.00008	-0.00008	-0.00007

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X1H7H	(A0 * B0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * Y)	0.00035	0.00035	0.00035
	(!A0 * A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * Y)	0.00034	0.00034	0.00035

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X1H7H	(A0 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * Y)	0.00003	0.00003	0.00004
	(A0 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * Y)	-0.00035	-0.00034	-0.00034
	(!A0 * A1 * B0 * Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * B0 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * Y)	-0.00034	-0.00034	-0.00034

OAO211X1P4H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

```
OAO211 ( Y = ( (A0 + A1) • B0) + C0 )
```

Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	Y
0	0	x	0	0
x	x	x	1	1
x	1	0	0	0
x	1	1	x	1
1	x	0	0	0
1	x	1	x	1

Footprint

Cell Name	Area
OAO211X1P4H7H	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	Y
OAO211X1P4H7H	0.00081	0.00077	0.00082	0.00090	0.04710

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAO211X1P4H7H	0.00000	0.02258	0.02615

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAO211X1P4H7H	A0->Y (RR)	0.08130	0.25919	0.69497
	A1->Y (RR)	0.08304	0.26275	0.70305
	B0->Y (RR)	0.07737	0.25272	0.67860
	C0->Y (RR)	0.04915	0.22043	0.63746

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAO211X1P4H7H	A0->Y (FF)	0.16315	0.32337	0.70565
	A1->Y (FF)	0.16492	0.32120	0.69051
	B0->Y (FF)	0.10114	0.25431	0.61992
	C0->Y (FF)	0.14432	0.29701	0.66505

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAO211X1P4H7H	A0	0.00052	0.00059	0.00064
	A0	0.00005	0.00005	0.00005
	A0	-0.00007	-0.00007	-0.00007
	A0	0.00167	0.00174	0.00180
	A1	0.00053	0.00059	0.00064
	A1	0.00009	0.00009	0.00009
	A1	-0.00007	-0.00007	-0.00007
	A1	0.00182	0.00188	0.00193
	B0	0.00051	0.00058	0.00064
	B0	0.00009	0.00009	0.00009
	B0	-0.00001	-0.00001	-0.00001
	B0	0.00150	0.00156	0.00162
	C0	0.00048	0.00056	0.00063
	C0	-0.00002	-0.00002	-0.00001
	C0	-0.00001	-0.00001	-0.00001
	C0	0.00148	0.00155	0.00162

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAO211X1P4H7H	A0	0.00181	0.00186	0.00193
	A0	-0.00005	-0.00005	-0.00005
	A0	0.00007	0.00007	0.00007
	A0	0.00066	0.00071	0.00077
	A1	0.00191	0.00197	0.00203
	A1	-0.00009	-0.00009	-0.00009
	A1	0.00007	0.00007	0.00007
	A1	0.00060	0.00065	0.00072
	B0	0.00166	0.00172	0.00178
	B0	-0.00005	-0.00005	-0.00005
	B0	0.00001	0.00001	0.00003
	B0	0.00059	0.00066	0.00072
	C0	0.00150	0.00156	0.00164
	C0	0.00002	0.00002	0.00002
	C0	0.00006	0.00007	0.00007
	C0	0.00056	0.00062	0.00070

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X1P4H7H	(A1 * B0 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * C0 * Y)	-0.00005	-0.00005	-0.00005
	(A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * Y)	0.00025	0.00026	0.00026
	(A1 * B0 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !C0 * Y)	-0.00004	-0.00004	-0.00004
	(A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * Y)	0.00025	0.00025	0.00025
	(A1 * !B0 * C0 * Y)	-0.00012	-0.00012	-0.00010
	(A1 * !B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * C0 * Y)	0.00023	0.00023	0.00023
	(A1 * !B0 * !C0 * !Y)	-0.00012	-0.00012	-0.00011
	(A1 * !B0 * !C0 * !Y)	-0.00003	-0.00002	-0.00001
	(A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00001
	(A1 * !B0 * !C0 * !Y)	0.00023	0.00023	0.00023
	(!A1 * B0 * C0 * Y)	-0.00010	-0.00009	-0.00006
	(!A1 * B0 * C0 * Y)	-0.00003	-0.00002	-0.00002
	(!A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * C0 * Y)	0.00024	0.00025	0.00025
	(!A1 * !B0 * C0 * Y)	-0.00014	-0.00014	-0.00014
	(!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * Y)	0.00019	0.00019	0.00019
	(!A1 * !B0 * !C0 * !Y)	-0.00015	-0.00014	-0.00014
	(!A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C0 * !Y)	0.00019	0.00019	0.00019

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X1P4H7H	(A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * Y)	0.00005	0.00005	0.00005
	(A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * Y)	-0.00026	-0.00026	-0.00025
	(A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * Y)	0.00004	0.00005	0.00005
	(A1 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * Y)	-0.00025	-0.00025	-0.00025
	(A1 * !B0 * C0 * Y)	0.00012	0.00012	0.00012
	(A1 * !B0 * C0 * Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * C0 * Y)	-0.00023	-0.00023	-0.00023
	(A1 * !B0 * !C0 * !Y)	0.00012	0.00012	0.00012
	(A1 * !B0 * !C0 * !Y)	0.00001	0.00002	0.00003
	(A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !C0 * !Y)	-0.00023	-0.00023	-0.00023
	(!A1 * B0 * C0 * Y)	0.00010	0.00010	0.00010
	(!A1 * B0 * C0 * Y)	0.00002	0.00002	0.00003
	(!A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * C0 * Y)	-0.00024	-0.00024	-0.00024
	(!A1 * !B0 * C0 * Y)	0.00014	0.00014	0.00014
	(!A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * Y)	-0.00019	-0.00018	-0.00016
	(!A1 * !B0 * !C0 * !Y)	0.00014	0.00015	0.00015
	(!A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * !Y)	-0.00019	-0.00018	-0.00016

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X1P4H7H	(A0 * B0 * C0 * Y)	-0.00009	-0.00008	-0.00007
	(A0 * B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * Y)	0.00030	0.00030	0.00030
	(A0 * B0 * !C0 * Y)	-0.00009	-0.00008	-0.00007
	(A0 * B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * Y)	0.00030	0.00030	0.00030
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	-0.00009	-0.00008	-0.00007
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	0.00029	0.00030	0.00030
	(!A0 * B0 * C0 * Y)	-0.00008	-0.00007	-0.00006
	(!A0 * B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * C0 * Y)	0.00030	0.00030	0.00030
	(!A0 * !B0 * C0 * Y)	-0.00011	-0.00011	-0.00011
	(!A0 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * Y)	0.00025	0.00025	0.00026
	(!A0 * !B0 * !C0 * !Y)	-0.00011	-0.00011	-0.00011
	(!A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !C0 * !Y)	0.00025	0.00025	0.00026

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X1P4H7H	(A0 * B0 * C0 * Y)	0.00009	0.00009	0.00009
	(A0 * B0 * C0 * Y)	0.00002	0.00002	0.00002
	(A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * Y)	-0.00030	-0.00030	-0.00029
	(A0 * B0 * !C0 * Y)	0.00009	0.00009	0.00009
	(A0 * B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(A0 * B0 * !C0 * Y)	-0.00000	-0.00000	0.00001
	(A0 * B0 * !C0 * Y)	-0.00030	-0.00030	-0.00030
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	0.00009	0.00009	0.00009
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	-0.00030	-0.00030	-0.00029
	(!A0 * B0 * C0 * Y)	0.00008	0.00008	0.00008
	(!A0 * B0 * C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * C0 * Y)	-0.00030	-0.00030	-0.00030
	(!A0 * !B0 * C0 * Y)	0.00011	0.00011	0.00011
	(!A0 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * Y)	-0.00026	-0.00024	-0.00022
	(!A0 * !B0 * !C0 * !Y)	0.00011	0.00011	0.00011
	(!A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * !Y)	-0.00026	-0.00024	-0.00022

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X1P4H7H	(A0 * C0 * Y)	-0.00010	-0.00009	-0.00006
	(A0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * C0 * Y)	0.00027	0.00027	0.00028
	(!A0 * A1 * C0 * Y)	-0.00010	-0.00008	-0.00006
	(!A0 * A1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * C0 * Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * C0 * Y)	0.00027	0.00027	0.00027
	(!A0 * !A1 * C0 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !A1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * C0 * Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * C0 * Y)	0.00021	0.00022	0.00022
	(!A0 * !A1 * !C0 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !A1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !C0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * !C0 * !Y)	0.00007	0.00008	0.00008

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X1P4H7H	(A0 * C0 * Y)	0.00010	0.00010	0.00010
	(A0 * C0 * Y)	0.00002	0.00002	0.00002
	(A0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * C0 * Y)	-0.00027	-0.00027	-0.00027
	(!A0 * A1 * C0 * Y)	0.00010	0.00010	0.00010
	(!A0 * A1 * C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * C0 * Y)	-0.00027	-0.00027	-0.00027
	(!A0 * !A1 * C0 * Y)	0.00014	0.00014	0.00014
	(!A0 * !A1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * C0 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * C0 * Y)	-0.00022	-0.00020	-0.00018
	(!A0 * !A1 * !C0 * !Y)	0.00020	0.00020	0.00021
	(!A0 * !A1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !C0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * !C0 * !Y)	-0.00008	-0.00008	-0.00007

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X1P4H7H	(A0 * B0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * Y)	0.00035	0.00035	0.00035
	(!A0 * A1 * B0 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * Y)	0.00034	0.00035	0.00035

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X1P4H7H	(A0 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * Y)	0.00003	0.00003	0.00004
	(A0 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * Y)	-0.00035	-0.00034	-0.00034
	(!A0 * A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * Y)	0.00003	0.00004	0.00004
	(!A0 * A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * Y)	-0.00035	-0.00034	-0.00034

OAO211X2H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

OAO211 (Y = ((A0 + A1) • B0) + C0)

Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	Y
0	0	x	0	0
x	x	x	1	1
x	1	0	0	0
x	1	1	x	1
1	x	0	0	0
1	x	1	x	1

Footprint

Cell Name	Area
OAO211X2H7H	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	Y
OAO211X2H7H	0.00081	0.00077	0.00083	0.00090	0.05471

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAO211X2H7H	0.00000	0.02938	0.03564

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAO211X2H7H	A0->Y (RR)	0.08202	0.26108	0.69939
	A1->Y (RR)	0.08375	0.26458	0.70693
	B0->Y (RR)	0.07828	0.25508	0.68373
	C0->Y (RR)	0.04869	0.22139	0.64160

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAO211X2H7H	A0->Y (FF)	0.16593	0.32739	0.71038
	A1->Y (FF)	0.16765	0.32508	0.69447
	B0->Y (FF)	0.10310	0.25707	0.62326
	C0->Y (FF)	0.14701	0.30103	0.67030

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAO211X2H7H	A0	0.00057	0.00065	0.00071
	A0	0.00004	0.00004	0.00004
	A0	-0.00006	-0.00006	-0.00006
	A0	0.00172	0.00179	0.00185
	A1	0.00059	0.00065	0.00070
	A1	0.00008	0.00008	0.00008
	A1	-0.00006	-0.00006	-0.00006
	A1	0.00187	0.00193	0.00198
	B0	0.00057	0.00064	0.00070
	B0	0.00008	0.00008	0.00009
	B0	-0.00001	-0.00001	0.00002
	B0	0.00155	0.00161	0.00168
	C0	0.00054	0.00063	0.00069
	C0	-0.00002	-0.00002	0.00029
	C0	-0.00001	-0.00001	-0.00000
	C0	0.00152	0.00161	0.00167

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAO211X2H7H	A0	0.00185	0.00192	0.00198
	A0	-0.00004	-0.00004	-0.00004
	A0	0.00006	0.00006	0.00006
	A0	0.00071	0.00077	0.00084
	A1	0.00196	0.00202	0.00209
	A1	-0.00008	-0.00008	-0.00008
	A1	0.00006	0.00006	0.00006
	A1	0.00065	0.00072	0.00078
	B0	0.00171	0.00178	0.00184
	B0	-0.00004	-0.00004	-0.00004
	B0	0.00000	0.00001	0.00002
	B0	0.00065	0.00072	0.00079
	C0	0.00155	0.00161	0.00169
	C0	0.00002	0.00002	0.00004
	C0	0.00006	0.00006	0.00006
	C0	0.00062	0.00068	0.00076

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X2H7H	(A1 * B0 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * C0 * Y)	-0.00005	-0.00005	-0.00005
	(A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * Y)	0.00025	0.00026	0.00026
	(A1 * B0 * !C0 * Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * Y)	-0.00004	-0.00004	-0.00004
	(A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * Y)	0.00025	0.00025	0.00025
	(A1 * !B0 * C0 * Y)	-0.00012	-0.00012	-0.00010
	(A1 * !B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * C0 * Y)	0.00023	0.00023	0.00023
	(A1 * !B0 * !C0 * !Y)	-0.00012	-0.00012	-0.00010
	(A1 * !B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00001
	(A1 * !B0 * !C0 * !Y)	0.00023	0.00023	0.00023
	(!A1 * B0 * C0 * Y)	-0.00010	-0.00009	-0.00006
	(!A1 * B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * C0 * Y)	0.00024	0.00025	0.00025
	(!A1 * !B0 * C0 * Y)	-0.00015	-0.00014	-0.00014
	(!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * Y)	0.00019	0.00019	0.00019
	(!A1 * !B0 * !C0 * !Y)	-0.00015	-0.00015	-0.00014
	(!A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * !C0 * !Y)	0.00019	0.00019	0.00019

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X2H7H	(A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * Y)	0.00005	0.00005	0.00005
	(A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * Y)	-0.00026	-0.00025	-0.00025
	(A1 * B0 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !C0 * Y)	0.00005	0.00005	0.00005
	(A1 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * Y)	-0.00025	-0.00025	-0.00025
	(A1 * !B0 * C0 * Y)	0.00012	0.00012	0.00012
	(A1 * !B0 * C0 * Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * C0 * Y)	-0.00023	-0.00023	-0.00023
	(A1 * !B0 * !C0 * !Y)	0.00012	0.00012	0.00012
	(A1 * !B0 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !C0 * !Y)	-0.00023	-0.00023	-0.00023
	(!A1 * B0 * C0 * Y)	0.00010	0.00010	0.00010
	(!A1 * B0 * C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * C0 * Y)	-0.00024	-0.00024	-0.00024
	(!A1 * !B0 * C0 * Y)	0.00014	0.00014	0.00015
	(!A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * Y)	-0.00019	-0.00018	-0.00016
	(!A1 * !B0 * !C0 * !Y)	0.00015	0.00015	0.00015
	(!A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * !Y)	-0.00019	-0.00018	-0.00016

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X2H7H	(A0 * B0 * C0 * Y)	-0.00009	-0.00008	-0.00007
	(A0 * B0 * C0 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * Y)	0.00030	0.00030	0.00030
	(A0 * B0 * !C0 * Y)	-0.00009	-0.00008	-0.00007
	(A0 * B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * Y)	0.00030	0.00030	0.00030
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	-0.00009	-0.00008	-0.00007
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	0.00029	0.00030	0.00030
	(!A0 * B0 * C0 * Y)	-0.00008	-0.00007	-0.00006
	(!A0 * B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * B0 * C0 * Y)	0.00000	0.00000	0.00001
	(!A0 * B0 * C0 * Y)	0.00030	0.00030	0.00030
	(!A0 * !B0 * C0 * Y)	-0.00011	-0.00011	-0.00011
	(!A0 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * Y)	0.00025	0.00025	0.00026
	(!A0 * !B0 * !C0 * !Y)	-0.00011	-0.00011	-0.00011
	(!A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !C0 * !Y)	0.00025	0.00025	0.00026

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X2H7H	(A0 * B0 * C0 * Y)	0.00009	0.00009	0.00009
	(A0 * B0 * C0 * Y)	0.00001	0.00002	0.00002
	(A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * Y)	-0.00030	-0.00030	-0.00029
	(A0 * B0 * !C0 * Y)	0.00009	0.00009	0.00009
	(A0 * B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(A0 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !C0 * Y)	-0.00030	-0.00030	-0.00029
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	0.00009	0.00009	0.00009
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	-0.00030	-0.00030	-0.00029
	(!A0 * B0 * C0 * Y)	0.00008	0.00008	0.00008
	(!A0 * B0 * C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * C0 * Y)	-0.00030	-0.00030	-0.00030
	(!A0 * !B0 * C0 * Y)	0.00011	0.00011	0.00011
	(!A0 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * Y)	-0.00026	-0.00024	-0.00022
	(!A0 * !B0 * !C0 * !Y)	0.00011	0.00011	0.00011
	(!A0 * !B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * !Y)	-0.00026	-0.00024	-0.00022

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X2H7H	(A0 * C0 * Y)	-0.00010	-0.00009	-0.00006
	(A0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * C0 * Y)	0.00027	0.00028	0.00028
	(!A0 * A1 * C0 * Y)	-0.00010	-0.00008	-0.00006
	(!A0 * A1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * C0 * Y)	0.00027	0.00027	0.00028
	(!A0 * !A1 * C0 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !A1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * C0 * Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * C0 * Y)	0.00022	0.00022	0.00022
	(!A0 * !A1 * !C0 * !Y)	-0.00021	-0.00021	-0.00020
	(!A0 * !A1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !C0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * !C0 * !Y)	0.00007	0.00008	0.00008

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X2H7H	(A0 * C0 * Y)	0.00010	0.00010	0.00010
	(A0 * C0 * Y)	0.00002	0.00002	0.00002
	(A0 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * C0 * Y)	-0.00028	-0.00027	-0.00027
	(!A0 * A1 * C0 * Y)	0.00010	0.00010	0.00010
	(!A0 * A1 * C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * C0 * Y)	-0.00027	-0.00027	-0.00027
	(!A0 * !A1 * C0 * Y)	0.00014	0.00014	0.00014
	(!A0 * !A1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * C0 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * C0 * Y)	-0.00022	-0.00021	-0.00018
	(!A0 * !A1 * !C0 * !Y)	0.00021	0.00021	0.00021
	(!A0 * !A1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !C0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * !C0 * !Y)	-0.00008	-0.00008	-0.00007

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X2H7H	(A0 * B0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * Y)	0.00035	0.00035	0.00035
	(!A0 * A1 * B0 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * Y)	0.00035	0.00035	0.00035

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X2H7H	(A0 * B0 * Y)	0.00000	0.00000	0.00001
	(A0 * B0 * Y)	0.00002	0.00003	0.00003
	(A0 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * Y)	-0.00035	-0.00035	-0.00035
	(!A0 * A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * Y)	0.00003	0.00004	0.00004
	(!A0 * A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * Y)	-0.00034	-0.00034	-0.00034

OAO211X3H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

OAO211 (Y = ((A0 + A1) • B0) + C0)

Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	Y
0	0	x	0	0
x	x	x	1	1
x	1	0	0	0
x	1	1	x	1
1	x	0	0	0
1	x	1	x	1

Footprint

Cell Name	Area
OAO211X3H7H	3.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	Y
OAO211X3H7H	0.00090	0.00087	0.00093	0.00102	0.08655

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAO211X3H7H	0.00000	0.03539	0.03546

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAO211X3H7H	A0->Y (RR)	0.08194	0.26580	0.71440
	A1->Y (RR)	0.08459	0.27014	0.72257
	B0->Y (RR)	0.07895	0.25971	0.69778
	C0->Y (RR)	0.04728	0.22438	0.65379

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAO211X3H7H	A0->Y (FF)	0.15858	0.32331	0.70986
	A1->Y (FF)	0.16115	0.32192	0.69507
	B0->Y (FF)	0.10049	0.25739	0.62816
	C0->Y (FF)	0.14231	0.30017	0.67357

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAO211X3H7H	A0	0.00091	0.00102	0.00111
	A0	0.00006	0.00006	0.00007
	A0	-0.00007	-0.00007	-0.00006
	A0	0.00224	0.00234	0.00244
	A1	0.00093	0.00102	0.00111
	A1	0.00011	0.00011	0.00011
	A1	-0.00007	-0.00007	-0.00007
	A1	0.00243	0.00252	0.00261
	B0	0.00091	0.00101	0.00111
	B0	0.00011	0.00011	0.00011
	B0	-0.00000	-0.00000	0.00002
	B0	0.00205	0.00215	0.00225
	C0	0.00088	0.00100	0.00110
	C0	-0.00003	-0.00003	-0.00002
	C0	-0.00000	-0.00000	0.00000
	C0	0.00199	0.00211	0.00221

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAO211X3H7H	A0	0.00247	0.00255	0.00265
	A0	-0.00007	-0.00006	-0.00006
	A0	0.00007	0.00007	0.00007
	A0	0.00114	0.00123	0.00133
	A1	0.00263	0.00272	0.00281
	A1	-0.00011	-0.00011	-0.00011
	A1	0.00007	0.00007	0.00007
	A1	0.00109	0.00117	0.00127
	B0	0.00232	0.00242	0.00251
	B0	-0.00006	-0.00006	-0.00005
	B0	-0.00000	0.00000	0.00001
	B0	0.00107	0.00117	0.00127
	C0	0.00210	0.00219	0.00231
	C0	0.00003	0.00003	0.00004
	C0	0.00007	0.00007	0.00007
	C0	0.00106	0.00115	0.00126

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X3H7H	(A1 * B0 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * C0 * Y)	-0.00007	-0.00007	-0.00007
	(A1 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * C0 * Y)	0.00027	0.00027	0.00027
	(A1 * B0 * !C0 * Y)	-0.00000	0.00000	0.00001
	(A1 * B0 * !C0 * Y)	-0.00007	-0.00006	-0.00006
	(A1 * B0 * !C0 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !C0 * Y)	0.00027	0.00027	0.00027
	(A1 * !B0 * C0 * Y)	-0.00015	-0.00014	-0.00012
	(A1 * !B0 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * C0 * Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * C0 * Y)	0.00025	0.00025	0.00025
	(A1 * !B0 * !C0 * !Y)	-0.00015	-0.00014	-0.00012
	(A1 * !B0 * !C0 * !Y)	-0.00003	-0.00003	-0.00002
	(A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00001
	(A1 * !B0 * !C0 * !Y)	0.00025	0.00025	0.00026
	(!A1 * B0 * C0 * Y)	-0.00013	-0.00011	-0.00008
	(!A1 * B0 * C0 * Y)	-0.00003	-0.00003	-0.00002
	(!A1 * B0 * C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * C0 * Y)	0.00026	0.00026	0.00027
	(!A1 * !B0 * C0 * Y)	-0.00018	-0.00018	-0.00018
	(!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * C0 * Y)	0.00020	0.00021	0.00021
	(!A1 * !B0 * !C0 * !Y)	-0.00018	-0.00018	-0.00018
	(!A1 * !B0 * !C0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !C0 * !Y)	0.00020	0.00021	0.00021

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X3H7H	(A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * Y)	0.00007	0.00007	0.00007
	(A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * C0 * Y)	-0.00027	-0.00027	-0.00027
	(A1 * B0 * !C0 * Y)	-0.00001	0.00000	0.00000
	(A1 * B0 * !C0 * Y)	0.00006	0.00006	0.00007
	(A1 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !C0 * Y)	-0.00027	-0.00027	-0.00026
	(A1 * !B0 * C0 * Y)	0.00015	0.00015	0.00015
	(A1 * !B0 * C0 * Y)	0.00003	0.00003	0.00003
	(A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * C0 * Y)	-0.00025	-0.00025	-0.00025
	(A1 * !B0 * !C0 * !Y)	0.00015	0.00015	0.00015
	(A1 * !B0 * !C0 * !Y)	0.00002	0.00003	0.00003
	(A1 * !B0 * !C0 * !Y)	-0.00001	-0.00000	0.00000
	(A1 * !B0 * !C0 * !Y)	-0.00026	-0.00025	-0.00025
	(!A1 * B0 * C0 * Y)	0.00013	0.00013	0.00014
	(!A1 * B0 * C0 * Y)	0.00002	0.00003	0.00003
	(!A1 * B0 * C0 * Y)	-0.00001	-0.00000	-0.00000
	(!A1 * B0 * C0 * Y)	-0.00026	-0.00026	-0.00026
	(!A1 * !B0 * C0 * Y)	0.00018	0.00018	0.00018
	(!A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * C0 * Y)	-0.00021	-0.00019	-0.00017
	(!A1 * !B0 * !C0 * !Y)	0.00018	0.00018	0.00018
	(!A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !C0 * !Y)	-0.00021	-0.00019	-0.00017

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X3H7H	(A0 * B0 * C0 * Y)	-0.00012	-0.00011	-0.00009
	(A0 * B0 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00001
	(A0 * B0 * C0 * Y)	0.00032	0.00032	0.00032
	(A0 * B0 * !C0 * Y)	-0.00012	-0.00011	-0.00010
	(A0 * B0 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * !C0 * Y)	0.00000	0.00001	0.00001
	(A0 * B0 * !C0 * Y)	0.00032	0.00032	0.00032
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	-0.00012	-0.00011	-0.00009
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	0.00031	0.00032	0.00032
	(!A0 * B0 * C0 * Y)	-0.00011	-0.00010	-0.00008
	(!A0 * B0 * C0 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * B0 * C0 * Y)	0.00000	0.00000	0.00001
	(!A0 * B0 * C0 * Y)	0.00032	0.00032	0.00032
	(!A0 * !B0 * C0 * Y)	-0.00015	-0.00015	-0.00014
	(!A0 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * C0 * Y)	0.00027	0.00027	0.00027
	(!A0 * !B0 * !C0 * !Y)	-0.00015	-0.00015	-0.00014
	(!A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * !C0 * !Y)	0.00026	0.00027	0.00027

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X3H7H	(A0 * B0 * C0 * Y)	0.00012	0.00012	0.00012
	(A0 * B0 * C0 * Y)	0.00003	0.00003	0.00003
	(A0 * B0 * C0 * Y)	-0.00001	-0.00000	-0.00000
	(A0 * B0 * C0 * Y)	-0.00032	-0.00032	-0.00031
	(A0 * B0 * !C0 * Y)	0.00011	0.00012	0.00012
	(A0 * B0 * !C0 * Y)	0.00003	0.00003	0.00003
	(A0 * B0 * !C0 * Y)	-0.00001	-0.00000	0.00000
	(A0 * B0 * !C0 * Y)	-0.00032	-0.00032	-0.00032
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	0.00012	0.00012	0.00012
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	0.00003	0.00003	0.00003
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	-0.00032	-0.00032	-0.00031
	(!A0 * B0 * C0 * Y)	0.00011	0.00011	0.00011
	(!A0 * B0 * C0 * Y)	0.00002	0.00003	0.00003
	(!A0 * B0 * C0 * Y)	-0.00001	-0.00000	-0.00000
	(!A0 * B0 * C0 * Y)	-0.00032	-0.00032	-0.00032
	(!A0 * !B0 * C0 * Y)	0.00014	0.00015	0.00015
	(!A0 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * C0 * Y)	-0.00027	-0.00026	-0.00023
	(!A0 * !B0 * !C0 * !Y)	0.00015	0.00015	0.00015
	(!A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * !C0 * !Y)	-0.00027	-0.00026	-0.00023

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X3H7H	(A0 * C0 * Y)	-0.00013	-0.00011	-0.00008
	(A0 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * C0 * Y)	0.00000	0.00001	0.00001
	(A0 * C0 * Y)	0.00029	0.00029	0.00029
	(!A0 * A1 * C0 * Y)	-0.00013	-0.00011	-0.00008
	(!A0 * A1 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * C0 * Y)	0.00028	0.00029	0.00029
	(!A0 * !A1 * C0 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !A1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * C0 * Y)	0.00023	0.00023	0.00023
	(!A0 * !A1 * !C0 * !Y)	-0.00025	-0.00025	-0.00024
	(!A0 * !A1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !C0 * !Y)	0.00003	0.00004	0.00004
	(!A0 * !A1 * !C0 * !Y)	0.00007	0.00007	0.00008

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X3H7H	(A0 * C0 * Y)	0.00013	0.00013	0.00013
	(A0 * C0 * Y)	0.00003	0.00003	0.00003
	(A0 * C0 * Y)	-0.00001	-0.00000	-0.00000
	(A0 * C0 * Y)	-0.00029	-0.00029	-0.00029
	(!A0 * A1 * C0 * Y)	0.00013	0.00013	0.00013
	(!A0 * A1 * C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * C0 * Y)	-0.00029	-0.00028	-0.00028
	(!A0 * !A1 * C0 * Y)	0.00018	0.00018	0.00018
	(!A0 * !A1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * C0 * Y)	-0.00023	-0.00021	-0.00019
	(!A0 * !A1 * !C0 * !Y)	0.00025	0.00025	0.00025
	(!A0 * !A1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !C0 * !Y)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * !C0 * !Y)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X3H7H	(A0 * B0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * Y)	-0.00004	-0.00004	-0.00003
	(A0 * B0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * Y)	0.00038	0.00038	0.00038
	(!A0 * A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * Y)	-0.00004	-0.00004	-0.00003
	(!A0 * A1 * B0 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * B0 * Y)	0.00038	0.00038	0.00038

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X3H7H	(A0 * B0 * Y)	0.00000	0.00000	0.00001
	(A0 * B0 * Y)	0.00003	0.00004	0.00005
	(A0 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * Y)	-0.00038	-0.00038	-0.00038
	(!A0 * A1 * B0 * Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * B0 * Y)	0.00003	0.00004	0.00005
	(!A0 * A1 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * B0 * Y)	-0.00038	-0.00037	-0.00037

OAO211X4H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

OAO211 (Y = ((A0 + A1) • B0) + C0)

Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	Y
0	0	x	0	0
x	x	x	1	1
x	1	0	0	0
x	1	1	x	1
1	x	0	0	0
1	x	1	x	1

Footprint

Cell Name	Area
OAO211X4H7H	3.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	Y
OAO211X4H7H	0.00093	0.00091	0.00102	0.00109	0.10910

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAO211X4H7H	0.00000	0.05789	0.06065

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAO211X4H7H	A0->Y (RR)	0.07911	0.26360	0.71267
	A1->Y (RR)	0.08200	0.26811	0.72113
	B0->Y (RR)	0.07669	0.25798	0.69646
	C0->Y (RR)	0.04527	0.22295	0.65301

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAO211X4H7H	A0->Y (FF)	0.15674	0.32337	0.71244
	A1->Y (FF)	0.15942	0.32215	0.69787
	B0->Y (FF)	0.10016	0.25877	0.63258
	C0->Y (FF)	0.14053	0.30084	0.67773

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAO211X4H7H	A0	0.00110	0.00122	0.00134
	A0	0.00005	0.00005	0.00005
	A0	-0.00008	-0.00008	-0.00007
	A0	0.00251	0.00264	0.00275
	A1	0.00111	0.00122	0.00132
	A1	0.00011	0.00012	0.00012
	A1	-0.00008	-0.00008	-0.00008
	A1	0.00271	0.00282	0.00293
	B0	0.00108	0.00120	0.00133
	B0	0.00011	0.00012	0.00012
	B0	0.00000	0.00001	0.00001
	B0	0.00230	0.00242	0.00255
	C0	0.00106	0.00120	0.00132
	C0	-0.00005	-0.00005	-0.00004
	C0	0.00001	0.00001	0.00001
	C0	0.00223	0.00238	0.00249

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAO211X4H7H	A0	0.00273	0.00284	0.00295
	A0	-0.00005	-0.00005	-0.00005
	A0	0.00008	0.00008	0.00008
	A0	0.00132	0.00142	0.00154
	A1	0.00292	0.00303	0.00314
	A1	-0.00012	-0.00012	-0.00011
	A1	0.00008	0.00008	0.00008
	A1	0.00128	0.00138	0.00149
	B0	0.00259	0.00271	0.00283
	B0	-0.00005	-0.00005	-0.00005
	B0	-0.00001	-0.00001	0.00000
	B0	0.00126	0.00138	0.00150
	C0	0.00233	0.00244	0.00258
	C0	0.00005	0.00005	0.00007
	C0	0.00008	0.00008	0.00008
	C0	0.00124	0.00134	0.00148

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X4H7H	(A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * Y)	-0.00008	-0.00008	-0.00007
	(A1 * B0 * C0 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * C0 * Y)	0.00029	0.00029	0.00029
	(A1 * B0 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !C0 * Y)	-0.00007	-0.00007	-0.00006
	(A1 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * Y)	0.00029	0.00029	0.00029
	(A1 * !B0 * C0 * Y)	-0.00016	-0.00015	-0.00013
	(A1 * !B0 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * C0 * Y)	0.00027	0.00027	0.00027
	(A1 * !B0 * !C0 * !Y)	-0.00016	-0.00015	-0.00013
	(A1 * !B0 * !C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !C0 * !Y)	0.00027	0.00027	0.00027
	(!A1 * B0 * C0 * Y)	-0.00014	-0.00012	-0.00009
	(!A1 * B0 * C0 * Y)	-0.00003	-0.00003	-0.00002
	(!A1 * B0 * C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * C0 * Y)	0.00028	0.00028	0.00028
	(!A1 * !B0 * C0 * Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * C0 * Y)	0.00022	0.00022	0.00022
	(!A1 * !B0 * !C0 * !Y)	-0.00020	-0.00019	-0.00019
	(!A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !C0 * !Y)	0.00002	0.00002	0.00003
	(!A1 * !B0 * !C0 * !Y)	0.00021	0.00022	0.00022

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X4H7H	(A1 * B0 * C0 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * C0 * Y)	0.00007	0.00008	0.00008
	(A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * C0 * Y)	-0.00029	-0.00029	-0.00029
	(A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * Y)	0.00007	0.00007	0.00007
	(A1 * B0 * !C0 * Y)	-0.00001	-0.00000	0.00001
	(A1 * B0 * !C0 * Y)	-0.00029	-0.00029	-0.00028
	(A1 * !B0 * C0 * Y)	0.00016	0.00016	0.00016
	(A1 * !B0 * C0 * Y)	0.00003	0.00003	0.00003
	(A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * C0 * Y)	-0.00027	-0.00027	-0.00027
	(A1 * !B0 * !C0 * !Y)	0.00016	0.00016	0.00016
	(A1 * !B0 * !C0 * !Y)	0.00003	0.00003	0.00003
	(A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * !C0 * !Y)	-0.00027	-0.00027	-0.00027
	(!A1 * B0 * C0 * Y)	0.00014	0.00014	0.00015
	(!A1 * B0 * C0 * Y)	0.00002	0.00003	0.00003
	(!A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * C0 * Y)	-0.00028	-0.00028	-0.00027
	(!A1 * !B0 * C0 * Y)	0.00019	0.00019	0.00019
	(!A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * C0 * Y)	-0.00022	-0.00021	-0.00018
	(!A1 * !B0 * !C0 * !Y)	0.00019	0.00020	0.00020
	(!A1 * !B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !C0 * !Y)	-0.00003	-0.00002	-0.00002
	(!A1 * !B0 * !C0 * !Y)	-0.00022	-0.00020	-0.00018

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X4H7H	(A0 * B0 * C0 * Y)	-0.00013	-0.00012	-0.00011
	(A0 * B0 * C0 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * C0 * Y)	0.00032	0.00032	0.00032
	(A0 * B0 * !C0 * Y)	-0.00013	-0.00012	-0.00010
	(A0 * B0 * !C0 * Y)	-0.00004	-0.00003	-0.00003
	(A0 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * Y)	0.00032	0.00032	0.00033
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	-0.00013	-0.00012	-0.00010
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	0.00032	0.00032	0.00033
	(!A0 * B0 * C0 * Y)	-0.00013	-0.00011	-0.00009
	(!A0 * B0 * C0 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * B0 * C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * C0 * Y)	0.00033	0.00033	0.00033
	(!A0 * !B0 * C0 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * C0 * Y)	0.00027	0.00027	0.00027
	(!A0 * !B0 * !C0 * !Y)	-0.00017	-0.00016	-0.00016
	(!A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * !C0 * !Y)	0.00027	0.00027	0.00027

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X4H7H	(A0 * B0 * C0 * Y)	0.00013	0.00013	0.00014
	(A0 * B0 * C0 * Y)	0.00002	0.00003	0.00003
	(A0 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * C0 * Y)	-0.00032	-0.00032	-0.00032
	(A0 * B0 * !C0 * Y)	0.00013	0.00013	0.00014
	(A0 * B0 * !C0 * Y)	0.00003	0.00003	0.00004
	(A0 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * !C0 * Y)	-0.00032	-0.00032	-0.00032
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	0.00013	0.00013	0.00013
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	0.00003	0.00003	0.00003
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	-0.00032	-0.00032	-0.00032
	(!A0 * B0 * C0 * Y)	0.00013	0.00013	0.00013
	(!A0 * B0 * C0 * Y)	0.00002	0.00003	0.00003
	(!A0 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * C0 * Y)	-0.00033	-0.00033	-0.00032
	(!A0 * !B0 * C0 * Y)	0.00016	0.00016	0.00017
	(!A0 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * C0 * Y)	-0.00027	-0.00026	-0.00023
	(!A0 * !B0 * !C0 * !Y)	0.00017	0.00017	0.00017
	(!A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * !C0 * !Y)	-0.00027	-0.00026	-0.00023

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X4H7H	(A0 * C0 * Y)	-0.00015	-0.00013	-0.00010
	(A0 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * C0 * Y)	0.00000	0.00001	0.00001
	(A0 * C0 * Y)	0.00031	0.00031	0.00031
	(!A0 * A1 * C0 * Y)	-0.00014	-0.00012	-0.00010
	(!A0 * A1 * C0 * Y)	-0.00004	-0.00003	-0.00003
	(!A0 * A1 * C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * C0 * Y)	0.00030	0.00030	0.00031
	(!A0 * !A1 * C0 * Y)	-0.00020	-0.00019	-0.00019
	(!A0 * !A1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * C0 * Y)	0.00025	0.00025	0.00025
	(!A0 * !A1 * !C0 * !Y)	-0.00028	-0.00028	-0.00028
	(!A0 * !A1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !C0 * !Y)	0.00004	0.00004	0.00005
	(!A0 * !A1 * !C0 * !Y)	0.00006	0.00007	0.00007

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X4H7H	(A0 * C0 * Y)	0.00014	0.00015	0.00015
	(A0 * C0 * Y)	0.00003	0.00003	0.00003
	(A0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * C0 * Y)	-0.00031	-0.00030	-0.00030
	(!A0 * A1 * C0 * Y)	0.00014	0.00014	0.00014
	(!A0 * A1 * C0 * Y)	0.00003	0.00003	0.00004
	(!A0 * A1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * C0 * Y)	-0.00031	-0.00030	-0.00030
	(!A0 * !A1 * C0 * Y)	0.00020	0.00020	0.00020
	(!A0 * !A1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * C0 * Y)	-0.00025	-0.00023	-0.00021
	(!A0 * !A1 * !C0 * !Y)	0.00028	0.00028	0.00029
	(!A0 * !A1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !C0 * !Y)	-0.00005	-0.00004	-0.00004
	(!A0 * !A1 * !C0 * !Y)	-0.00007	-0.00007	-0.00006

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X4H7H	(A0 * B0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * Y)	-0.00005	-0.00005	-0.00004
	(A0 * B0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * Y)	0.00040	0.00040	0.00040
	(!A0 * A1 * B0 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * B0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * Y)	0.00040	0.00040	0.00040

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X4H7H	(A0 * B0 * Y)	0.00000	0.00000	0.00001
	(A0 * B0 * Y)	0.00004	0.00005	0.00005
	(A0 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * Y)	-0.00040	-0.00040	-0.00040
	(!A0 * A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * Y)	0.00005	0.00005	0.00006
	(!A0 * A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * Y)	-0.00040	-0.00039	-0.00039

OAOI211X0P5H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

2-1-1 OAOI
ZN=(!(((A1|A2)&B)|(C))

Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	YN
0	0	x	0	1
x	x	x	1	0
x	1	0	0	1
x	1	1	x	0
1	x	0	0	1
1	x	1	x	0

Footprint

Cell Name	Area
OAOI211X0P5H7H	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	YN
OAOI211X0P5H7H	0.00079	0.00077	0.00081	0.00093	0.00975

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAOI211X0P5H7H	0.00000	0.00969	0.01104

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAOI211X0P5H7H	A0->YN (FR)	0.10510	0.27683	0.75733
	A1->YN (FR)	0.10742	0.27490	0.73419
	B0->YN (FR)	0.05904	0.19514	0.59481
	C0->YN (FR)	0.08917	0.25363	0.72362

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAOI211X0P5H7H	A0->YN (RF)	0.04382	0.15038	0.46934
	A1->YN (RF)	0.04469	0.15325	0.47341
	B0->YN (RF)	0.03900	0.14332	0.47447
	C0->YN (RF)	0.01955	0.09570	0.36495

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAOI211X0P5H7H	A0	0.00119	0.00122	0.00124
	A0	-0.00008	-0.00008	-0.00008
	A0	0.00010	0.00010	0.00010
	A0	-0.00002	0.00001	0.00002
	A1	0.00131	0.00133	0.00135
	A1	-0.00013	-0.00013	-0.00012
	A1	0.00010	0.00010	0.00010
	A1	-0.00008	-0.00005	-0.00003
	B0	0.00105	0.00108	0.00110
	B0	-0.00008	-0.00008	-0.00008
	B0	0.00005	0.00005	0.00005
	B0	-0.00007	-0.00004	-0.00002
	C0	0.00091	0.00096	0.00100
	C0	-0.00002	-0.00002	-0.00001
	C0	0.00010	0.00010	0.00010
	C0	-0.00010	-0.00007	-0.00003

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAOI211X0P5H7H	A0	-0.00009	-0.00007	-0.00006
	A0	0.00008	0.00008	0.00008
	A0	-0.00010	-0.00010	-0.00010
	A0	0.00112	0.00114	0.00116
	A1	-0.00008	-0.00007	-0.00006
	A1	0.00012	0.00013	0.00013
	A1	-0.00010	-0.00010	-0.00010
	A1	0.00127	0.00128	0.00129
	B0	-0.00010	-0.00008	-0.00006
	B0	0.00012	0.00012	0.00013
	B0	-0.00005	-0.00005	-0.00004
	B0	0.00092	0.00096	0.00098
	C0	-0.00013	-0.00009	-0.00006
	C0	0.00001	0.00002	0.00003
	C0	-0.00005	-0.00005	-0.00004
	C0	0.00095	0.00098	0.00101

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X0P5H7H	(A1 * B0 * C0 * !YN)	-0.00000	-0.00000	0.00000
	(A1 * B0 * C0 * !YN)	-0.00005	-0.00005	-0.00005
	(A1 * B0 * C0 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !YN)	0.00025	0.00025	0.00025
	(A1 * B0 * !C0 * !YN)	-0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * !YN)	-0.00004	-0.00004	-0.00004
	(A1 * B0 * !C0 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * !YN)	0.00025	0.00025	0.00025
	(A1 * !B0 * C0 * !YN)	-0.00012	-0.00011	-0.00010
	(A1 * !B0 * C0 * !YN)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * C0 * !YN)	0.00000	0.00000	0.00000
	(A1 * !B0 * C0 * !YN)	0.00023	0.00023	0.00023
	(A1 * !B0 * !C0 * YN)	-0.00012	-0.00011	-0.00010
	(A1 * !B0 * !C0 * YN)	-0.00003	-0.00002	-0.00002
	(A1 * !B0 * !C0 * YN)	0.00000	0.00000	0.00000
	(A1 * !B0 * !C0 * YN)	0.00023	0.00023	0.00023
	(!A1 * B0 * C0 * !YN)	-0.00010	-0.00008	-0.00006
	(!A1 * B0 * C0 * !YN)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * C0 * !YN)	0.00000	0.00000	0.00000
	(!A1 * B0 * C0 * !YN)	0.00024	0.00024	0.00025
	(!A1 * !B0 * C0 * !YN)	-0.00014	-0.00014	-0.00014
	(!A1 * !B0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * !YN)	0.00019	0.00019	0.00019
	(!A1 * !B0 * !C0 * YN)	-0.00014	-0.00014	-0.00014
	(!A1 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C0 * YN)	0.00019	0.00019	0.00019

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X0P5H7H	(A1 * B0 * C0 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !YN)	0.00005	0.00005	0.00005
	(A1 * B0 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * !YN)	-0.00025	-0.00025	-0.00025
	(A1 * B0 * !C0 * !YN)	-0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * !YN)	0.00005	0.00005	0.00005
	(A1 * B0 * !C0 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * !YN)	-0.00025	-0.00025	-0.00025
	(A1 * !B0 * C0 * !YN)	0.00012	0.00012	0.00012
	(A1 * !B0 * C0 * !YN)	0.00002	0.00002	0.00002
	(A1 * !B0 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * C0 * !YN)	-0.00023	-0.00023	-0.00023
	(A1 * !B0 * !C0 * YN)	0.00012	0.00012	0.00012
	(A1 * !B0 * !C0 * YN)	0.00002	0.00002	0.00003
	(A1 * !B0 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !C0 * YN)	-0.00023	-0.00023	-0.00023
	(!A1 * B0 * C0 * !YN)	0.00010	0.00010	0.00010
	(!A1 * B0 * C0 * !YN)	0.00002	0.00002	0.00002
	(!A1 * B0 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * C0 * !YN)	-0.00024	-0.00024	-0.00024
	(!A1 * !B0 * C0 * !YN)	0.00014	0.00014	0.00014
	(!A1 * !B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * !YN)	-0.00019	-0.00018	-0.00016
	(!A1 * !B0 * !C0 * YN)	0.00014	0.00014	0.00014
	(!A1 * !B0 * !C0 * YN)	0.00001	0.00001	0.00002
	(!A1 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * YN)	-0.00019	-0.00018	-0.00016

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X0P5H7H	(A0 * B0 * C0 * !YN)	-0.00009	-0.00008	-0.00007
	(A0 * B0 * C0 * !YN)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * C0 * !YN)	0.00000	0.00000	0.00001
	(A0 * B0 * C0 * !YN)	0.00030	0.00030	0.00030
	(A0 * B0 * !C0 * !YN)	-0.00009	-0.00008	-0.00007
	(A0 * B0 * !C0 * !YN)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !C0 * !YN)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * !YN)	0.00030	0.00030	0.00030
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	-0.00009	-0.00008	-0.00007
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	0.00000	0.00000	0.00000
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	0.00030	0.00030	0.00030
	(!A0 * B0 * C0 * !YN)	-0.00008	-0.00007	-0.00006
	(!A0 * B0 * C0 * !YN)	-0.00002	-0.00002	-0.00001
	(!A0 * B0 * C0 * !YN)	0.00000	0.00000	0.00000
	(!A0 * B0 * C0 * !YN)	0.00030	0.00030	0.00030
	(!A0 * !B0 * C0 * !YN)	-0.00011	-0.00011	-0.00011
	(!A0 * !B0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * !YN)	0.00001	0.00002	0.00001
	(!A0 * !B0 * C0 * !YN)	0.00025	0.00026	0.00026
	(!A0 * !B0 * !C0 * YN)	-0.00011	-0.00011	-0.00011
	(!A0 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * !C0 * YN)	0.00001	0.00002	0.00002
	(!A0 * !B0 * !C0 * YN)	0.00025	0.00026	0.00026

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X0P5H7H	(A0 * B0 * C0 * !YN)	0.00009	0.00009	0.00009
	(A0 * B0 * C0 * !YN)	0.00002	0.00002	0.00002
	(A0 * B0 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * !YN)	-0.00030	-0.00030	-0.00030
	(A0 * B0 * !C0 * !YN)	0.00009	0.00009	0.00009
	(A0 * B0 * !C0 * !YN)	0.00002	0.00002	0.00002
	(A0 * B0 * !C0 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !C0 * !YN)	-0.00030	-0.00030	-0.00029
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	0.00009	0.00009	0.00009
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	0.00002	0.00002	0.00002
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	-0.00030	-0.00030	-0.00030
	(!A0 * B0 * C0 * !YN)	0.00008	0.00008	0.00008
	(!A0 * B0 * C0 * !YN)	0.00001	0.00002	0.00002
	(!A0 * B0 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * C0 * !YN)	-0.00030	-0.00030	-0.00030
	(!A0 * !B0 * C0 * !YN)	0.00011	0.00011	0.00011
	(!A0 * !B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * !YN)	-0.00026	-0.00024	-0.00022
	(!A0 * !B0 * !C0 * YN)	0.00011	0.00011	0.00011
	(!A0 * !B0 * !C0 * YN)	0.00000	0.00001	0.00001
	(!A0 * !B0 * !C0 * YN)	-0.00002	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * YN)	-0.00026	-0.00024	-0.00022

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X0P5H7H	(A0 * C0 * !YN)	-0.00010	-0.00009	-0.00006
	(A0 * C0 * !YN)	-0.00002	-0.00002	-0.00002
	(A0 * C0 * !YN)	0.00000	0.00000	0.00000
	(A0 * C0 * !YN)	0.00026	0.00026	0.00027
	(!A0 * A1 * C0 * !YN)	-0.00010	-0.00008	-0.00006
	(!A0 * A1 * C0 * !YN)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * C0 * !YN)	0.00000	0.00000	0.00000
	(!A0 * A1 * C0 * !YN)	0.00026	0.00026	0.00026
	(!A0 * !A1 * C0 * !YN)	-0.00014	-0.00014	-0.00014
	(!A0 * !A1 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * C0 * !YN)	0.00001	0.00002	0.00002
	(!A0 * !A1 * C0 * !YN)	0.00021	0.00021	0.00021
	(!A0 * !A1 * !C0 * YN)	-0.00020	-0.00020	-0.00020
	(!A0 * !A1 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !C0 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !C0 * YN)	0.00007	0.00007	0.00007

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X0P5H7H	(A0 * C0 * !YN)	0.00010	0.00010	0.00010
	(A0 * C0 * !YN)	0.00002	0.00002	0.00002
	(A0 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * C0 * !YN)	-0.00026	-0.00026	-0.00026
	(!A0 * A1 * C0 * !YN)	0.00009	0.00010	0.00010
	(!A0 * A1 * C0 * !YN)	0.00002	0.00002	0.00002
	(!A0 * A1 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * C0 * !YN)	-0.00026	-0.00026	-0.00026
	(!A0 * !A1 * C0 * !YN)	0.00014	0.00014	0.00014
	(!A0 * !A1 * C0 * !YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * C0 * !YN)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * C0 * !YN)	-0.00021	-0.00019	-0.00017
	(!A0 * !A1 * !C0 * YN)	0.00020	0.00020	0.00021
	(!A0 * !A1 * !C0 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !C0 * YN)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * !C0 * YN)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X0P5H7H	(A0 * B0 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * B0 * !YN)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * !YN)	0.00000	0.00000	0.00000
	(A0 * B0 * !YN)	0.00036	0.00036	0.00036
	(!A0 * A1 * B0 * !YN)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * !YN)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * B0 * !YN)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * !YN)	0.00036	0.00036	0.00036

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X0P5H7H	(A0 * B0 * !YN)	-0.00000	0.00000	0.00000
	(A0 * B0 * !YN)	0.00003	0.00003	0.00003
	(A0 * B0 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !YN)	-0.00036	-0.00036	-0.00036
	(!A0 * A1 * B0 * !YN)	-0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * !YN)	0.00003	0.00003	0.00003
	(!A0 * A1 * B0 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * !YN)	-0.00036	-0.00036	-0.00035

OAOI211X0P7H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

2-1-1 OAOI
ZN=(!(((A1|A2)&B)|(C))

Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	YN
0	0	x	0	1
x	x	x	1	0
x	1	0	0	1
x	1	1	x	0
1	x	0	0	1
1	x	1	x	0

Footprint

Cell Name	Area
OAOI211X0P7H7H	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	YN
OAOI211X0P7H7H	0.00083	0.00081	0.00085	0.00098	0.01115

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAOI211X0P7H7H	0.00000	0.01105	0.01394

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAOI211X0P7H7H	A0->YN (FR)	0.09720	0.27052	0.75721
	A1->YN (FR)	0.09971	0.26893	0.73327
	B0->YN (FR)	0.05503	0.19200	0.59594
	C0->YN (FR)	0.08153	0.24768	0.72308

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAOI211X0P7H7H	A0->YN (RF)	0.04147	0.15002	0.47785
	A1->YN (RF)	0.04245	0.15315	0.48190
	B0->YN (RF)	0.03678	0.14228	0.47893
	C0->YN (RF)	0.01839	0.09505	0.36988

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAOI211X0P7H7H	A0	0.00128	0.00130	0.00132
	A0	-0.00010	-0.00010	-0.00010
	A0	0.00011	0.00012	0.00012
	A0	-0.00002	-0.00000	0.00002
	A1	0.00141	0.00144	0.00146
	A1	-0.00014	-0.00014	-0.00014
	A1	0.00011	0.00012	0.00012
	A1	-0.00008	-0.00006	-0.00004
	B0	0.00113	0.00116	0.00119
	B0	-0.00010	-0.00010	-0.00009
	B0	0.00005	0.00005	0.00007
	B0	-0.00008	-0.00005	-0.00002
	C0	0.00097	0.00101	0.00106
	C0	-0.00002	-0.00002	-0.00002
	C0	0.00011	0.00011	0.00012
	C0	-0.00011	-0.00008	-0.00004

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAOI211X0P7H7H	A0	-0.00010	-0.00008	-0.00006
	A0	0.00010	0.00010	0.00010
	A0	-0.00012	-0.00012	-0.00011
	A0	0.00120	0.00122	0.00124
	A1	-0.00009	-0.00008	-0.00007
	A1	0.00014	0.00014	0.00014
	A1	-0.00012	-0.00012	-0.00011
	A1	0.00135	0.00138	0.00139
	B0	-0.00011	-0.00009	-0.00007
	B0	0.00014	0.00014	0.00014
	B0	-0.00005	-0.00005	-0.00005
	B0	0.00099	0.00103	0.00105
	C0	-0.00014	-0.00011	-0.00006
	C0	0.00002	0.00002	0.00003
	C0	-0.00005	-0.00005	-0.00005
	C0	0.00102	0.00105	0.00108

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X0P7H7H	(A1 * B0 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * !YN)	-0.00006	-0.00006	-0.00006
	(A1 * B0 * C0 * !YN)	0.00000	0.00000	0.00001
	(A1 * B0 * C0 * !YN)	0.00026	0.00026	0.00026
	(A1 * B0 * !C0 * !YN)	-0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * !YN)	-0.00005	-0.00005	-0.00005
	(A1 * B0 * !C0 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * !YN)	0.00025	0.00026	0.00026
	(A1 * !B0 * C0 * !YN)	-0.00013	-0.00012	-0.00011
	(A1 * !B0 * C0 * !YN)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * C0 * !YN)	0.00000	0.00000	0.00000
	(A1 * !B0 * C0 * !YN)	0.00024	0.00024	0.00024
	(A1 * !B0 * !C0 * YN)	-0.00013	-0.00012	-0.00011
	(A1 * !B0 * !C0 * YN)	-0.00003	-0.00002	-0.00002
	(A1 * !B0 * !C0 * YN)	0.00000	0.00000	0.00001
	(A1 * !B0 * !C0 * YN)	0.00024	0.00024	0.00024
	(!A1 * B0 * C0 * !YN)	-0.00011	-0.00009	-0.00007
	(!A1 * B0 * C0 * !YN)	-0.00003	-0.00002	-0.00002
	(!A1 * B0 * C0 * !YN)	0.00000	0.00000	0.00000
	(!A1 * B0 * C0 * !YN)	0.00025	0.00025	0.00026
	(!A1 * !B0 * C0 * !YN)	-0.00015	-0.00015	-0.00015
	(!A1 * !B0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * !YN)	0.00002	0.00002	0.00002
	(!A1 * !B0 * C0 * !YN)	0.00020	0.00020	0.00020
	(!A1 * !B0 * !C0 * YN)	-0.00015	-0.00015	-0.00015
	(!A1 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * YN)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !C0 * YN)	0.00020	0.00020	0.00020

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X0P7H7H	(A1 * B0 * C0 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !YN)	0.00006	0.00006	0.00006
	(A1 * B0 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * !YN)	-0.00026	-0.00026	-0.00026
	(A1 * B0 * !C0 * !YN)	-0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * !YN)	0.00005	0.00005	0.00005
	(A1 * B0 * !C0 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * !YN)	-0.00026	-0.00026	-0.00025
	(A1 * !B0 * C0 * !YN)	0.00013	0.00013	0.00013
	(A1 * !B0 * C0 * !YN)	0.00002	0.00002	0.00002
	(A1 * !B0 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * C0 * !YN)	-0.00024	-0.00024	-0.00024
	(A1 * !B0 * !C0 * YN)	0.00013	0.00013	0.00013
	(A1 * !B0 * !C0 * YN)	0.00002	0.00002	0.00003
	(A1 * !B0 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !C0 * YN)	-0.00024	-0.00024	-0.00024
	(!A1 * B0 * C0 * !YN)	0.00011	0.00011	0.00011
	(!A1 * B0 * C0 * !YN)	0.00002	0.00002	0.00003
	(!A1 * B0 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * C0 * !YN)	-0.00025	-0.00025	-0.00025
	(!A1 * !B0 * C0 * !YN)	0.00015	0.00015	0.00015
	(!A1 * !B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * !YN)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * C0 * !YN)	-0.00020	-0.00019	-0.00017
	(!A1 * !B0 * !C0 * YN)	0.00015	0.00015	0.00015
	(!A1 * !B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C0 * YN)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !C0 * YN)	-0.00020	-0.00019	-0.00017

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X0P7H7H	(A0 * B0 * C0 * !YN)	-0.00010	-0.00009	-0.00008
	(A0 * B0 * C0 * !YN)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * C0 * !YN)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * !YN)	0.00030	0.00031	0.00031
	(A0 * B0 * !C0 * !YN)	-0.00010	-0.00009	-0.00008
	(A0 * B0 * !C0 * !YN)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !C0 * !YN)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * !YN)	0.00030	0.00031	0.00031
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	-0.00010	-0.00009	-0.00008
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	0.00000	0.00000	0.00000
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	0.00030	0.00031	0.00031
	(!A0 * B0 * C0 * !YN)	-0.00009	-0.00008	-0.00007
	(!A0 * B0 * C0 * !YN)	-0.00002	-0.00002	-0.00001
	(!A0 * B0 * C0 * !YN)	0.00000	0.00000	0.00001
	(!A0 * B0 * C0 * !YN)	0.00031	0.00031	0.00031
	(!A0 * !B0 * C0 * !YN)	-0.00012	-0.00012	-0.00012
	(!A0 * !B0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * !YN)	0.00002	0.00002	0.00002
	(!A0 * !B0 * C0 * !YN)	0.00026	0.00026	0.00026
	(!A0 * !B0 * !C0 * YN)	-0.00012	-0.00012	-0.00012
	(!A0 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * !C0 * YN)	0.00002	0.00002	0.00002
	(!A0 * !B0 * !C0 * YN)	0.00026	0.00026	0.00026

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X0P7H7H	(A0 * B0 * C0 * !YN)	0.00010	0.00010	0.00010
	(A0 * B0 * C0 * !YN)	0.00002	0.00002	0.00002
	(A0 * B0 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * !YN)	-0.00031	-0.00031	-0.00030
	(A0 * B0 * !C0 * !YN)	0.00010	0.00010	0.00010
	(A0 * B0 * !C0 * !YN)	0.00002	0.00002	0.00002
	(A0 * B0 * !C0 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !C0 * !YN)	-0.00031	-0.00030	-0.00030
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	0.00010	0.00010	0.00010
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	0.00002	0.00002	0.00002
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	-0.00031	-0.00030	-0.00030
	(!A0 * B0 * C0 * !YN)	0.00009	0.00009	0.00009
	(!A0 * B0 * C0 * !YN)	0.00001	0.00002	0.00002
	(!A0 * B0 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * C0 * !YN)	-0.00031	-0.00031	-0.00031
	(!A0 * !B0 * C0 * !YN)	0.00012	0.00012	0.00012
	(!A0 * !B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * !YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * C0 * !YN)	-0.00026	-0.00025	-0.00023
	(!A0 * !B0 * !C0 * YN)	0.00012	0.00012	0.00013
	(!A0 * !B0 * !C0 * YN)	0.00000	0.00001	0.00001
	(!A0 * !B0 * !C0 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * !C0 * YN)	-0.00026	-0.00025	-0.00023

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X0P7H7H	(A0 * C0 * !YN)	-0.00011	-0.00010	-0.00007
	(A0 * C0 * !YN)	-0.00002	-0.00002	-0.00002
	(A0 * C0 * !YN)	0.00000	0.00001	0.00001
	(A0 * C0 * !YN)	0.00027	0.00027	0.00027
	(!A0 * A1 * C0 * !YN)	-0.00011	-0.00009	-0.00007
	(!A0 * A1 * C0 * !YN)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * C0 * !YN)	0.00000	0.00000	0.00001
	(!A0 * A1 * C0 * !YN)	0.00027	0.00027	0.00027
	(!A0 * !A1 * C0 * !YN)	-0.00015	-0.00015	-0.00015
	(!A0 * !A1 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * C0 * !YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * C0 * !YN)	0.00021	0.00021	0.00021
	(!A0 * !A1 * !C0 * YN)	-0.00022	-0.00022	-0.00022
	(!A0 * !A1 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !C0 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !C0 * YN)	0.00007	0.00007	0.00007

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X0P7H7H	(A0 * C0 * !YN)	0.00011	0.00011	0.00011
	(A0 * C0 * !YN)	0.00002	0.00002	0.00002
	(A0 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * C0 * !YN)	-0.00027	-0.00027	-0.00027
	(!A0 * A1 * C0 * !YN)	0.00011	0.00011	0.00011
	(!A0 * A1 * C0 * !YN)	0.00003	0.00003	0.00003
	(!A0 * A1 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * C0 * !YN)	-0.00027	-0.00026	-0.00026
	(!A0 * !A1 * C0 * !YN)	0.00015	0.00015	0.00015
	(!A0 * !A1 * C0 * !YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * C0 * !YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * C0 * !YN)	-0.00021	-0.00020	-0.00017
	(!A0 * !A1 * !C0 * YN)	0.00022	0.00022	0.00022
	(!A0 * !A1 * !C0 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !C0 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !C0 * YN)	-0.00007	-0.00006	-0.00007

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X0P7H7H	(A0 * B0 * !YN)	-0.00000	0.00000	0.00000
	(A0 * B0 * !YN)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * !YN)	0.00000	0.00000	0.00000
	(A0 * B0 * !YN)	0.00038	0.00038	0.00038
	(!A0 * A1 * B0 * !YN)	-0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * !YN)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * B0 * !YN)	0.00000	0.00000	0.00001
	(!A0 * A1 * B0 * !YN)	0.00037	0.00038	0.00038

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X0P7H7H	(A0 * B0 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * B0 * !YN)	0.00003	0.00003	0.00004
	(A0 * B0 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !YN)	-0.00038	-0.00038	-0.00037
	(!A0 * A1 * B0 * !YN)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * B0 * !YN)	0.00004	0.00004	0.00004
	(!A0 * A1 * B0 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * !YN)	-0.00038	-0.00037	-0.00036

OAOI211X1H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

2-1-1 OAOI
ZN=(!(((A1|A2)&B)|(C))

Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	YN
0	0	x	0	1
x	x	x	1	0
x	1	0	0	1
x	1	1	x	0
1	x	0	0	1
1	x	1	x	0

Footprint

Cell Name	Area
OAOI211X1H7H	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	YN
OAOI211X1H7H	0.00090	0.00087	0.00092	0.00104	0.01341

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAOI211X1H7H	0.00000	0.01410	0.02317

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAOI211X1H7H	A0->YN (FR)	0.08824	0.26371	0.75782
	A1->YN (FR)	0.09081	0.26229	0.73400
	B0->YN (FR)	0.05048	0.18871	0.59845
	C0->YN (FR)	0.07234	0.24048	0.72457

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAOI211X1H7H	A0->YN (RF)	0.03941	0.15132	0.49122
	A1->YN (RF)	0.04046	0.15472	0.49539
	B0->YN (RF)	0.03491	0.14344	0.49023
	C0->YN (RF)	0.01724	0.09553	0.37957

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAOI211X1H7H	A0	0.00142	0.00145	0.00147
	A0	-0.00012	-0.00012	-0.00012
	A0	0.00013	0.00014	0.00014
	A0	-0.00003	-0.00001	0.00001
	A1	0.00158	0.00161	0.00163
	A1	-0.00018	-0.00018	-0.00017
	A1	0.00013	0.00014	0.00014
	A1	-0.00009	-0.00006	-0.00004
	B0	0.00128	0.00131	0.00134
	B0	-0.00012	-0.00012	-0.00012
	B0	0.00006	0.00006	0.00007
	B0	-0.00009	-0.00006	-0.00003
	C0	0.00106	0.00110	0.00115
	C0	-0.00003	-0.00003	-0.00002
	C0	0.00013	0.00014	0.00014
	C0	-0.00012	-0.00008	-0.00003

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAOI211X1H7H	A0	-0.00012	-0.00009	-0.00007
	A0	0.00012	0.00012	0.00012
	A0	-0.00014	-0.00014	-0.00013
	A0	0.00133	0.00136	0.00138
	A1	-0.00011	-0.00009	-0.00008
	A1	0.00017	0.00018	0.00018
	A1	-0.00014	-0.00014	-0.00013
	A1	0.00150	0.00153	0.00155
	B0	-0.00013	-0.00010	-0.00008
	B0	0.00017	0.00017	0.00018
	B0	-0.00006	-0.00006	-0.00006
	B0	0.00111	0.00115	0.00118
	C0	-0.00016	-0.00011	-0.00008
	C0	0.00002	0.00003	0.00004
	C0	-0.00006	-0.00006	-0.00006
	C0	0.00109	0.00113	0.00116

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X1H7H	(A1 * B0 * C0 * !YN)	-0.00000	-0.00000	0.00000
	(A1 * B0 * C0 * !YN)	-0.00007	-0.00007	-0.00007
	(A1 * B0 * C0 * !YN)	0.00000	0.00001	0.00001
	(A1 * B0 * C0 * !YN)	0.00027	0.00027	0.00027
	(A1 * B0 * !C0 * !YN)	-0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * !YN)	-0.00006	-0.00006	-0.00006
	(A1 * B0 * !C0 * !YN)	0.00000	0.00001	0.00001
	(A1 * B0 * !C0 * !YN)	0.00027	0.00027	0.00027
	(A1 * !B0 * C0 * !YN)	-0.00015	-0.00014	-0.00012
	(A1 * !B0 * C0 * !YN)	-0.00003	-0.00003	-0.00002
	(A1 * !B0 * C0 * !YN)	0.00000	0.00001	0.00001
	(A1 * !B0 * C0 * !YN)	0.00025	0.00025	0.00025
	(A1 * !B0 * !C0 * YN)	-0.00015	-0.00014	-0.00012
	(A1 * !B0 * !C0 * YN)	-0.00003	-0.00003	-0.00002
	(A1 * !B0 * !C0 * YN)	0.00000	0.00001	0.00001
	(A1 * !B0 * !C0 * YN)	0.00025	0.00025	0.00025
	(!A1 * B0 * C0 * !YN)	-0.00013	-0.00011	-0.00008
	(!A1 * B0 * C0 * !YN)	-0.00003	-0.00003	-0.00003
	(!A1 * B0 * C0 * !YN)	0.00000	0.00001	0.00001
	(!A1 * B0 * C0 * !YN)	0.00026	0.00026	0.00027
	(!A1 * !B0 * C0 * !YN)	-0.00018	-0.00018	-0.00018
	(!A1 * !B0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * !YN)	0.00002	0.00002	0.00002
	(!A1 * !B0 * C0 * !YN)	0.00021	0.00021	0.00021
	(!A1 * !B0 * !C0 * YN)	-0.00018	-0.00018	-0.00018
	(!A1 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * YN)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !C0 * YN)	0.00021	0.00021	0.00021

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X1H7H	(A1 * B0 * C0 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !YN)	0.00007	0.00007	0.00007
	(A1 * B0 * C0 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * C0 * !YN)	-0.00027	-0.00027	-0.00027
	(A1 * B0 * !C0 * !YN)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !C0 * !YN)	0.00006	0.00006	0.00006
	(A1 * B0 * !C0 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !C0 * !YN)	-0.00027	-0.00027	-0.00027
	(A1 * !B0 * C0 * !YN)	0.00015	0.00015	0.00015
	(A1 * !B0 * C0 * !YN)	0.00002	0.00003	0.00003
	(A1 * !B0 * C0 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * C0 * !YN)	-0.00025	-0.00025	-0.00025
	(A1 * !B0 * !C0 * YN)	0.00015	0.00015	0.00015
	(A1 * !B0 * !C0 * YN)	0.00002	0.00003	0.00003
	(A1 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * !C0 * YN)	-0.00025	-0.00025	-0.00025
	(!A1 * B0 * C0 * !YN)	0.00013	0.00013	0.00013
	(!A1 * B0 * C0 * !YN)	0.00003	0.00003	0.00003
	(!A1 * B0 * C0 * !YN)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * C0 * !YN)	-0.00026	-0.00026	-0.00026
	(!A1 * !B0 * C0 * !YN)	0.00018	0.00018	0.00018
	(!A1 * !B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * !YN)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * C0 * !YN)	-0.00021	-0.00019	-0.00017
	(!A1 * !B0 * !C0 * YN)	0.00018	0.00018	0.00018
	(!A1 * !B0 * !C0 * YN)	0.00001	0.00001	0.00002
	(!A1 * !B0 * !C0 * YN)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !C0 * YN)	-0.00021	-0.00019	-0.00017

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X1H7H	(A0 * B0 * C0 * !YN)	-0.00012	-0.00011	-0.00009
	(A0 * B0 * C0 * !YN)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * C0 * !YN)	0.00000	0.00001	0.00001
	(A0 * B0 * C0 * !YN)	0.00032	0.00032	0.00032
	(A0 * B0 * !C0 * !YN)	-0.00012	-0.00011	-0.00009
	(A0 * B0 * !C0 * !YN)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * !C0 * !YN)	0.00000	0.00001	0.00001
	(A0 * B0 * !C0 * !YN)	0.00031	0.00032	0.00032
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	-0.00012	-0.00011	-0.00009
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	-0.00003	-0.00003	-0.00003
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	0.00000	0.00001	0.00001
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	0.00031	0.00032	0.00032
	(!A0 * B0 * C0 * !YN)	-0.00011	-0.00010	-0.00008
	(!A0 * B0 * C0 * !YN)	-0.00002	-0.00002	-0.00002
	(!A0 * B0 * C0 * !YN)	0.00000	0.00001	0.00001
	(!A0 * B0 * C0 * !YN)	0.00032	0.00032	0.00032
	(!A0 * !B0 * C0 * !YN)	-0.00015	-0.00015	-0.00014
	(!A0 * !B0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * !YN)	0.00002	0.00002	0.00002
	(!A0 * !B0 * C0 * !YN)	0.00027	0.00027	0.00027
	(!A0 * !B0 * !C0 * YN)	-0.00015	-0.00015	-0.00014
	(!A0 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * YN)	0.00002	0.00002	0.00002
	(!A0 * !B0 * !C0 * YN)	0.00027	0.00027	0.00027

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X1H7H	(A0 * B0 * C0 * !YN)	0.00012	0.00012	0.00012
	(A0 * B0 * C0 * !YN)	0.00003	0.00003	0.00003
	(A0 * B0 * C0 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * C0 * !YN)	-0.00032	-0.00032	-0.00032
	(A0 * B0 * !C0 * !YN)	0.00012	0.00012	0.00012
	(A0 * B0 * !C0 * !YN)	0.00003	0.00003	0.00003
	(A0 * B0 * !C0 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * !C0 * !YN)	-0.00032	-0.00032	-0.00031
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	0.00012	0.00012	0.00012
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	0.00003	0.00003	0.00003
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	-0.00032	-0.00032	-0.00031
	(!A0 * B0 * C0 * !YN)	0.00011	0.00011	0.00011
	(!A0 * B0 * C0 * !YN)	0.00002	0.00002	0.00002
	(!A0 * B0 * C0 * !YN)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * C0 * !YN)	-0.00032	-0.00032	-0.00032
	(!A0 * !B0 * C0 * !YN)	0.00014	0.00015	0.00015
	(!A0 * !B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * !YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * C0 * !YN)	-0.00027	-0.00026	-0.00023
	(!A0 * !B0 * !C0 * YN)	0.00015	0.00015	0.00015
	(!A0 * !B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !C0 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * !C0 * YN)	-0.00027	-0.00026	-0.00023

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X1H7H	(A0 * C0 * !YN)	-0.00013	-0.00011	-0.00009
	(A0 * C0 * !YN)	-0.00003	-0.00003	-0.00003
	(A0 * C0 * !YN)	0.00000	0.00001	0.00001
	(A0 * C0 * !YN)	0.00028	0.00029	0.00029
	(!A0 * A1 * C0 * !YN)	-0.00013	-0.00011	-0.00008
	(!A0 * A1 * C0 * !YN)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * C0 * !YN)	0.00000	0.00001	0.00001
	(!A0 * A1 * C0 * !YN)	0.00028	0.00028	0.00028
	(!A0 * !A1 * C0 * !YN)	-0.00018	-0.00018	-0.00017
	(!A0 * !A1 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * C0 * !YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * C0 * !YN)	0.00023	0.00023	0.00023
	(!A0 * !A1 * !C0 * YN)	-0.00025	-0.00025	-0.00025
	(!A0 * !A1 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !C0 * YN)	0.00003	0.00003	0.00004
	(!A0 * !A1 * !C0 * YN)	0.00007	0.00007	0.00007

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X1H7H	(A0 * C0 * !YN)	0.00013	0.00013	0.00013
	(A0 * C0 * !YN)	0.00003	0.00003	0.00003
	(A0 * C0 * !YN)	-0.00001	-0.00000	-0.00000
	(A0 * C0 * !YN)	-0.00029	-0.00028	-0.00028
	(!A0 * A1 * C0 * !YN)	0.00012	0.00013	0.00013
	(!A0 * A1 * C0 * !YN)	0.00003	0.00003	0.00003
	(!A0 * A1 * C0 * !YN)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * C0 * !YN)	-0.00028	-0.00028	-0.00028
	(!A0 * !A1 * C0 * !YN)	0.00017	0.00018	0.00018
	(!A0 * !A1 * C0 * !YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * C0 * !YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * C0 * !YN)	-0.00023	-0.00021	-0.00018
	(!A0 * !A1 * !C0 * YN)	0.00025	0.00025	0.00025
	(!A0 * !A1 * !C0 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !C0 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !C0 * YN)	-0.00007	-0.00007	-0.00007

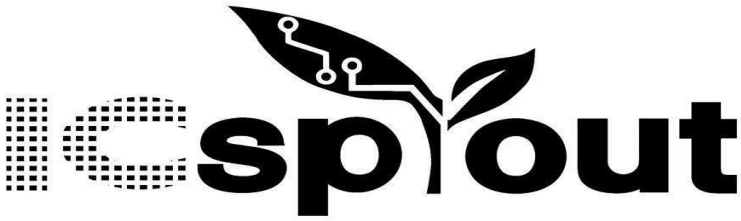
Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X1H7H	(A0 * B0 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * B0 * !YN)	-0.00004	-0.00004	-0.00004
	(A0 * B0 * !YN)	0.00000	0.00001	0.00001
	(A0 * B0 * !YN)	0.00039	0.00039	0.00039
	(!A0 * A1 * B0 * !YN)	-0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * !YN)	-0.00004	-0.00004	-0.00004
	(!A0 * A1 * B0 * !YN)	0.00000	0.00001	0.00001
	(!A0 * A1 * B0 * !YN)	0.00039	0.00039	0.00039

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X1H7H	(A0 * B0 * !YN)	-0.00000	0.00000	0.00000
	(A0 * B0 * !YN)	0.00004	0.00004	0.00004
	(A0 * B0 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * !YN)	-0.00039	-0.00039	-0.00039
	(!A0 * A1 * B0 * !YN)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * B0 * !YN)	0.00004	0.00005	0.00005
	(!A0 * A1 * B0 * !YN)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * B0 * !YN)	-0.00039	-0.00038	-0.00038

OAOI211X1P4H7H



tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

2-1-1 OAOI
ZN=(!(((A1|A2)&B)|(C))

Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	YN
0	0	x	0	1
x	x	x	1	0
x	1	0	0	1
x	1	1	x	0
1	x	0	0	1
1	x	1	x	0

Footprint

Cell Name	Area
OAOI211X1P4H7H	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	YN
OAOI211X1P4H7H	0.00095	0.00091	0.00101	0.00111	0.01529

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAOI211X1P4H7H	0.00000	0.01801	0.03453

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAOI211X1P4H7H	A0->YN (FR)	0.08397	0.26081	0.75952
	A1->YN (FR)	0.08647	0.25958	0.73627
	B0->YN (FR)	0.04791	0.18703	0.60021
	C0->YN (FR)	0.06678	0.23650	0.72491

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAOI211X1P4H7H	A0->YN (RF)	0.03779	0.15086	0.49514
	A1->YN (RF)	0.03886	0.15446	0.50042
	B0->YN (RF)	0.03321	0.14263	0.49303
	C0->YN (RF)	0.01618	0.09475	0.38316

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAOI211X1P4H7H	A0	0.00156	0.00159	0.00162
	A0	-0.00014	-0.00014	-0.00014
	A0	0.00016	0.00016	0.00016
	A0	-0.00003	-0.00000	0.00002
	A1	0.00175	0.00178	0.00181
	A1	-0.00020	-0.00020	-0.00020
	A1	0.00016	0.00016	0.00016
	A1	-0.00008	-0.00005	-0.00002
	B0	0.00141	0.00144	0.00147
	B0	-0.00014	-0.00014	-0.00014
	B0	0.00007	0.00007	0.00008
	B0	-0.00011	-0.00007	-0.00004
	C0	0.00113	0.00119	0.00124
	C0	-0.00004	-0.00003	-0.00003
	C0	0.00015	0.00016	0.00016
	C0	-0.00013	-0.00009	-0.00004

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAOI211X1P4H7H	A0	-0.00014	-0.00011	-0.00009
	A0	0.00014	0.00014	0.00014
	A0	-0.00016	-0.00016	-0.00016
	A0	0.00144	0.00148	0.00150
	A1	-0.00012	-0.00011	-0.00009
	A1	0.00020	0.00020	0.00020
	A1	-0.00016	-0.00016	-0.00016
	A1	0.00164	0.00166	0.00168
	B0	-0.00015	-0.00012	-0.00009
	B0	0.00020	0.00020	0.00021
	B0	-0.00007	-0.00007	-0.00007
	B0	0.00121	0.00126	0.00130
	C0	-0.00018	-0.00013	-0.00009
	C0	0.00003	0.00004	0.00005
	C0	-0.00007	-0.00007	-0.00007
	C0	0.00117	0.00121	0.00125

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X1P4H7H	(A1 * B0 * C0 * !YN)	-0.00000	-0.00000	0.00000
	(A1 * B0 * C0 * !YN)	-0.00009	-0.00008	-0.00008
	(A1 * B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(A1 * B0 * C0 * !YN)	0.00028	0.00028	0.00029
	(A1 * B0 * !C0 * !YN)	-0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * !YN)	-0.00007	-0.00007	-0.00007
	(A1 * B0 * !C0 * !YN)	0.00000	0.00001	0.00001
	(A1 * B0 * !C0 * !YN)	0.00028	0.00028	0.00029
	(A1 * !B0 * C0 * !YN)	-0.00017	-0.00016	-0.00014
	(A1 * !B0 * C0 * !YN)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(A1 * !B0 * C0 * !YN)	0.00026	0.00026	0.00027
	(A1 * !B0 * !C0 * YN)	-0.00017	-0.00016	-0.00014
	(A1 * !B0 * !C0 * YN)	-0.00003	-0.00003	-0.00002
	(A1 * !B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(A1 * !B0 * !C0 * YN)	0.00026	0.00026	0.00027
	(!A1 * B0 * C0 * !YN)	-0.00015	-0.00013	-0.00010
	(!A1 * B0 * C0 * !YN)	-0.00003	-0.00003	-0.00003
	(!A1 * B0 * C0 * !YN)	0.00000	0.00001	0.00001
	(!A1 * B0 * C0 * !YN)	0.00027	0.00028	0.00028
	(!A1 * !B0 * C0 * !YN)	-0.00020	-0.00020	-0.00020
	(!A1 * !B0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * !YN)	0.00002	0.00002	0.00002
	(!A1 * !B0 * C0 * !YN)	0.00021	0.00021	0.00022
	(!A1 * !B0 * !C0 * YN)	-0.00020	-0.00020	-0.00020
	(!A1 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * YN)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !C0 * YN)	0.00022	0.00022	0.00022

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X1P4H7H	(A1 * B0 * C0 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !YN)	0.00008	0.00008	0.00009
	(A1 * B0 * C0 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * C0 * !YN)	-0.00029	-0.00028	-0.00028
	(A1 * B0 * !C0 * !YN)	-0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * !YN)	0.00007	0.00007	0.00007
	(A1 * B0 * !C0 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !C0 * !YN)	-0.00028	-0.00028	-0.00028
	(A1 * !B0 * C0 * !YN)	0.00017	0.00017	0.00017
	(A1 * !B0 * C0 * !YN)	0.00003	0.00003	0.00003
	(A1 * !B0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * C0 * !YN)	-0.00027	-0.00026	-0.00026
	(A1 * !B0 * !C0 * YN)	0.00017	0.00017	0.00017
	(A1 * !B0 * !C0 * YN)	0.00002	0.00003	0.00003
	(A1 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !C0 * YN)	-0.00027	-0.00026	-0.00026
	(!A1 * B0 * C0 * !YN)	0.00015	0.00015	0.00015
	(!A1 * B0 * C0 * !YN)	0.00003	0.00003	0.00003
	(!A1 * B0 * C0 * !YN)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * C0 * !YN)	-0.00027	-0.00027	-0.00027
	(!A1 * !B0 * C0 * !YN)	0.00020	0.00020	0.00020
	(!A1 * !B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * !YN)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * C0 * !YN)	-0.00022	-0.00020	-0.00018
	(!A1 * !B0 * !C0 * YN)	0.00020	0.00020	0.00021
	(!A1 * !B0 * !C0 * YN)	0.00001	0.00001	0.00002
	(!A1 * !B0 * !C0 * YN)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !C0 * YN)	-0.00022	-0.00020	-0.00018

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X1P4H7H	(A0 * B0 * C0 * !YN)	-0.00014	-0.00012	-0.00011
	(A0 * B0 * C0 * !YN)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(A0 * B0 * C0 * !YN)	0.00032	0.00032	0.00032
	(A0 * B0 * !C0 * !YN)	-0.00014	-0.00012	-0.00010
	(A0 * B0 * !C0 * !YN)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * !C0 * !YN)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * !YN)	0.00032	0.00032	0.00032
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	-0.00014	-0.00012	-0.00011
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	-0.00003	-0.00003	-0.00003
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	0.00032	0.00032	0.00032
	(!A0 * B0 * C0 * !YN)	-0.00013	-0.00011	-0.00010
	(!A0 * B0 * C0 * !YN)	-0.00003	-0.00003	-0.00002
	(!A0 * B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(!A0 * B0 * C0 * !YN)	0.00033	0.00033	0.00033
	(!A0 * !B0 * C0 * !YN)	-0.00017	-0.00017	-0.00016
	(!A0 * !B0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * !YN)	0.00002	0.00002	0.00002
	(!A0 * !B0 * C0 * !YN)	0.00027	0.00027	0.00027
	(!A0 * !B0 * !C0 * YN)	-0.00017	-0.00017	-0.00017
	(!A0 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * YN)	0.00002	0.00002	0.00002
	(!A0 * !B0 * !C0 * YN)	0.00027	0.00027	0.00028

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X1P4H7H	(A0 * B0 * C0 * !YN)	0.00013	0.00014	0.00014
	(A0 * B0 * C0 * !YN)	0.00003	0.00003	0.00003
	(A0 * B0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * C0 * !YN)	-0.00032	-0.00032	-0.00032
	(A0 * B0 * !C0 * !YN)	0.00014	0.00014	0.00014
	(A0 * B0 * !C0 * !YN)	0.00003	0.00003	0.00003
	(A0 * B0 * !C0 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * !YN)	-0.00032	-0.00032	-0.00032
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	0.00013	0.00014	0.00014
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	0.00003	0.00003	0.00003
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	-0.00032	-0.00032	-0.00032
	(!A0 * B0 * C0 * !YN)	0.00013	0.00013	0.00013
	(!A0 * B0 * C0 * !YN)	0.00002	0.00003	0.00003
	(!A0 * B0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * C0 * !YN)	-0.00033	-0.00032	-0.00032
	(!A0 * !B0 * C0 * !YN)	0.00016	0.00017	0.00017
	(!A0 * !B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * !YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * C0 * !YN)	-0.00027	-0.00026	-0.00023
	(!A0 * !B0 * !C0 * YN)	0.00017	0.00017	0.00017
	(!A0 * !B0 * !C0 * YN)	0.00001	0.00001	0.00002
	(!A0 * !B0 * !C0 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * !C0 * YN)	-0.00027	-0.00026	-0.00023

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X1P4H7H	(A0 * C0 * !YN)	-0.00015	-0.00013	-0.00010
	(A0 * C0 * !YN)	-0.00003	-0.00003	-0.00003
	(A0 * C0 * !YN)	0.00001	0.00001	0.00001
	(A0 * C0 * !YN)	0.00030	0.00031	0.00031
	(!A0 * A1 * C0 * !YN)	-0.00014	-0.00012	-0.00010
	(!A0 * A1 * C0 * !YN)	-0.00004	-0.00003	-0.00003
	(!A0 * A1 * C0 * !YN)	0.00000	0.00001	0.00001
	(!A0 * A1 * C0 * !YN)	0.00030	0.00030	0.00031
	(!A0 * !A1 * C0 * !YN)	-0.00020	-0.00020	-0.00020
	(!A0 * !A1 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * C0 * !YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * C0 * !YN)	0.00024	0.00025	0.00025
	(!A0 * !A1 * !C0 * YN)	-0.00028	-0.00028	-0.00027
	(!A0 * !A1 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !C0 * YN)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !C0 * YN)	0.00007	0.00007	0.00008

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X1P4H7H	(A0 * C0 * !YN)	0.00015	0.00015	0.00015
	(A0 * C0 * !YN)	0.00003	0.00003	0.00003
	(A0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * C0 * !YN)	-0.00031	-0.00030	-0.00030
	(!A0 * A1 * C0 * !YN)	0.00014	0.00014	0.00014
	(!A0 * A1 * C0 * !YN)	0.00003	0.00003	0.00004
	(!A0 * A1 * C0 * !YN)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * C0 * !YN)	-0.00030	-0.00030	-0.00030
	(!A0 * !A1 * C0 * !YN)	0.00020	0.00020	0.00020
	(!A0 * !A1 * C0 * !YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * C0 * !YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * C0 * !YN)	-0.00025	-0.00023	-0.00020
	(!A0 * !A1 * !C0 * YN)	0.00028	0.00028	0.00028
	(!A0 * !A1 * !C0 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !C0 * YN)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !C0 * YN)	-0.00008	-0.00007	-0.00007

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X1P4H7H	(A0 * B0 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * B0 * !YN)	-0.00005	-0.00005	-0.00005
	(A0 * B0 * !YN)	0.00001	0.00001	0.00001
	(A0 * B0 * !YN)	0.00041	0.00041	0.00041
	(!A0 * A1 * B0 * !YN)	-0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * !YN)	-0.00005	-0.00005	-0.00005
	(!A0 * A1 * B0 * !YN)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * !YN)	0.00041	0.00041	0.00041

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X1P4H7H	(A0 * B0 * !YN)	-0.00000	0.00000	0.00000
	(A0 * B0 * !YN)	0.00005	0.00005	0.00005
	(A0 * B0 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * !YN)	-0.00041	-0.00041	-0.00041
	(!A0 * A1 * B0 * !YN)	-0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * !YN)	0.00005	0.00005	0.00005
	(!A0 * A1 * B0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * !YN)	-0.00041	-0.00041	-0.00041

OAOI211X2H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

2-1-1 OAOI
ZN=(!(((A1|A2)&B)|(C))

Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	YN
0	0	x	0	1
x	x	x	1	0
x	1	0	0	1
x	1	1	x	0
1	x	0	0	1
1	x	1	x	0

Footprint

Cell Name	Area
OAOI211X2H7H	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	YN
OAOI211X2H7H	0.00110	0.00104	0.00115	0.00126	0.01763

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAOI211X2H7H	0.00000	0.02509	0.05731

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAOI211X2H7H	A0->YN (FR)	0.08103	0.25902	0.76117
	A1->YN (FR)	0.08355	0.25800	0.73833
	B0->YN (FR)	0.04682	0.18690	0.60325
	C0->YN (FR)	0.06418	0.23508	0.72792

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAOI211X2H7H	A0->YN (RF)	0.03582	0.14784	0.49183
	A1->YN (RF)	0.03689	0.15156	0.49713
	B0->YN (RF)	0.03184	0.14029	0.48904
	C0->YN (RF)	0.01566	0.09368	0.38200

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAOI211X2H7H	A0	0.00177	0.00181	0.00184
	A0	-0.00017	-0.00017	-0.00016
	A0	0.00019	0.00019	0.00019
	A0	-0.00007	-0.00004	-0.00001
	A1	0.00200	0.00203	0.00206
	A1	-0.00025	-0.00024	-0.00024
	A1	0.00019	0.00019	0.00019
	A1	-0.00012	-0.00008	-0.00005
	B0	0.00164	0.00168	0.00172
	B0	-0.00017	-0.00016	-0.00016
	B0	0.00009	0.00009	0.00009
	B0	-0.00012	-0.00008	-0.00004
	C0	0.00128	0.00134	0.00140
	C0	-0.00005	-0.00004	-0.00004
	C0	0.00019	0.00019	0.00019
	C0	-0.00016	-0.00012	-0.00006

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAOI211X2H7H	A0	-0.00017	-0.00013	-0.00010
	A0	0.00016	0.00017	0.00017
	A0	-0.00019	-0.00019	-0.00019
	A0	0.00166	0.00170	0.00173
	A1	-0.00015	-0.00013	-0.00011
	A1	0.00024	0.00024	0.00025
	A1	-0.00019	-0.00019	-0.00019
	A1	0.00189	0.00191	0.00193
	B0	-0.00018	-0.00014	-0.00011
	B0	0.00024	0.00024	0.00025
	B0	-0.00009	-0.00009	-0.00008
	B0	0.00140	0.00146	0.00150
	C0	-0.00020	-0.00014	-0.00009
	C0	0.00004	0.00005	0.00011
	C0	-0.00009	-0.00009	-0.00009
	C0	0.00135	0.00139	0.00144

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X2H7H	(A1 * B0 * C0 * !YN)	-0.00000	-0.00000	0.00000
	(A1 * B0 * C0 * !YN)	-0.00010	-0.00010	-0.00010
	(A1 * B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(A1 * B0 * C0 * !YN)	0.00032	0.00032	0.00032
	(A1 * B0 * !C0 * !YN)	-0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * !YN)	-0.00008	-0.00008	-0.00008
	(A1 * B0 * !C0 * !YN)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * !YN)	0.00032	0.00032	0.00032
	(A1 * !B0 * C0 * !YN)	-0.00020	-0.00018	-0.00016
	(A1 * !B0 * C0 * !YN)	-0.00004	-0.00004	-0.00003
	(A1 * !B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(A1 * !B0 * C0 * !YN)	0.00030	0.00030	0.00030
	(A1 * !B0 * !C0 * YN)	-0.00020	-0.00018	-0.00016
	(A1 * !B0 * !C0 * YN)	-0.00004	-0.00004	-0.00003
	(A1 * !B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(A1 * !B0 * !C0 * YN)	0.00030	0.00030	0.00030
	(!A1 * B0 * C0 * !YN)	-0.00018	-0.00015	-0.00011
	(!A1 * B0 * C0 * !YN)	-0.00004	-0.00004	-0.00004
	(!A1 * B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(!A1 * B0 * C0 * !YN)	0.00031	0.00031	0.00032
	(!A1 * !B0 * C0 * !YN)	-0.00024	-0.00024	-0.00024
	(!A1 * !B0 * C0 * !YN)	-0.00002	-0.00001	-0.00001
	(!A1 * !B0 * C0 * !YN)	0.00003	0.00003	0.00003
	(!A1 * !B0 * C0 * !YN)	0.00025	0.00025	0.00025
	(!A1 * !B0 * !C0 * YN)	-0.00024	-0.00024	-0.00024
	(!A1 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * YN)	0.00003	0.00003	0.00003
	(!A1 * !B0 * !C0 * YN)	0.00025	0.00025	0.00025

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X2H7H	(A1 * B0 * C0 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !YN)	0.00010	0.00010	0.00010
	(A1 * B0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * C0 * !YN)	-0.00032	-0.00032	-0.00032
	(A1 * B0 * !C0 * !YN)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !C0 * !YN)	0.00008	0.00009	0.00009
	(A1 * B0 * !C0 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * !YN)	-0.00032	-0.00032	-0.00031
	(A1 * !B0 * C0 * !YN)	0.00020	0.00020	0.00020
	(A1 * !B0 * C0 * !YN)	0.00004	0.00004	0.00004
	(A1 * !B0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * C0 * !YN)	-0.00030	-0.00030	-0.00030
	(A1 * !B0 * !C0 * YN)	0.00020	0.00020	0.00020
	(A1 * !B0 * !C0 * YN)	0.00003	0.00004	0.00004
	(A1 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !C0 * YN)	-0.00030	-0.00030	-0.00030
	(!A1 * B0 * C0 * !YN)	0.00018	0.00018	0.00018
	(!A1 * B0 * C0 * !YN)	0.00004	0.00004	0.00004
	(!A1 * B0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * C0 * !YN)	-0.00031	-0.00031	-0.00031
	(!A1 * !B0 * C0 * !YN)	0.00024	0.00024	0.00024
	(!A1 * !B0 * C0 * !YN)	0.00001	0.00002	0.00002
	(!A1 * !B0 * C0 * !YN)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * C0 * !YN)	-0.00025	-0.00023	-0.00020
	(!A1 * !B0 * !C0 * YN)	0.00024	0.00024	0.00024
	(!A1 * !B0 * !C0 * YN)	0.00001	0.00002	0.00003
	(!A1 * !B0 * !C0 * YN)	-0.00003	-0.00003	-0.00002
	(!A1 * !B0 * !C0 * YN)	-0.00025	-0.00023	-0.00020

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X2H7H	(A0 * B0 * C0 * !YN)	-0.00016	-0.00015	-0.00012
	(A0 * B0 * C0 * !YN)	-0.00004	-0.00003	-0.00003
	(A0 * B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(A0 * B0 * C0 * !YN)	0.00035	0.00036	0.00036
	(A0 * B0 * !C0 * !YN)	-0.00016	-0.00015	-0.00012
	(A0 * B0 * !C0 * !YN)	-0.00004	-0.00003	-0.00003
	(A0 * B0 * !C0 * !YN)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * !YN)	0.00035	0.00036	0.00036
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	-0.00016	-0.00015	-0.00013
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	-0.00004	-0.00003	-0.00003
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	0.00035	0.00036	0.00036
	(!A0 * B0 * C0 * !YN)	-0.00015	-0.00014	-0.00011
	(!A0 * B0 * C0 * !YN)	-0.00003	-0.00003	-0.00002
	(!A0 * B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(!A0 * B0 * C0 * !YN)	0.00036	0.00036	0.00036
	(!A0 * !B0 * C0 * !YN)	-0.00020	-0.00020	-0.00019
	(!A0 * !B0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * !YN)	0.00003	0.00003	0.00003
	(!A0 * !B0 * C0 * !YN)	0.00029	0.00030	0.00030
	(!A0 * !B0 * !C0 * YN)	-0.00020	-0.00020	-0.00020
	(!A0 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * YN)	0.00003	0.00003	0.00003
	(!A0 * !B0 * !C0 * YN)	0.00029	0.00030	0.00030

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X2H7H	(A0 * B0 * C0 * !YN)	0.00016	0.00016	0.00016
	(A0 * B0 * C0 * !YN)	0.00003	0.00003	0.00004
	(A0 * B0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * C0 * !YN)	-0.00036	-0.00035	-0.00035
	(A0 * B0 * !C0 * !YN)	0.00016	0.00016	0.00016
	(A0 * B0 * !C0 * !YN)	0.00003	0.00003	0.00004
	(A0 * B0 * !C0 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * !YN)	-0.00036	-0.00035	-0.00035
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	0.00016	0.00016	0.00016
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	0.00003	0.00003	0.00004
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	-0.00036	-0.00035	-0.00035
	(!A0 * B0 * C0 * !YN)	0.00015	0.00015	0.00015
	(!A0 * B0 * C0 * !YN)	0.00002	0.00003	0.00003
	(!A0 * B0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * C0 * !YN)	-0.00036	-0.00036	-0.00036
	(!A0 * !B0 * C0 * !YN)	0.00019	0.00020	0.00020
	(!A0 * !B0 * C0 * !YN)	0.00001	0.00002	0.00002
	(!A0 * !B0 * C0 * !YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !B0 * C0 * !YN)	-0.00030	-0.00028	-0.00025
	(!A0 * !B0 * !C0 * YN)	0.00020	0.00020	0.00020
	(!A0 * !B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !C0 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !B0 * !C0 * YN)	-0.00030	-0.00028	-0.00025

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X2H7H	(A0 * C0 * !YN)	-0.00018	-0.00015	-0.00012
	(A0 * C0 * !YN)	-0.00004	-0.00004	-0.00004
	(A0 * C0 * !YN)	0.00001	0.00001	0.00001
	(A0 * C0 * !YN)	0.00032	0.00033	0.00033
	(!A0 * A1 * C0 * !YN)	-0.00017	-0.00015	-0.00012
	(!A0 * A1 * C0 * !YN)	-0.00004	-0.00004	-0.00004
	(!A0 * A1 * C0 * !YN)	0.00001	0.00001	0.00001
	(!A0 * A1 * C0 * !YN)	0.00032	0.00032	0.00033
	(!A0 * !A1 * C0 * !YN)	-0.00024	-0.00024	-0.00024
	(!A0 * !A1 * C0 * !YN)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * C0 * !YN)	0.00002	0.00003	0.00003
	(!A0 * !A1 * C0 * !YN)	0.00026	0.00027	0.00027
	(!A0 * !A1 * !C0 * YN)	-0.00034	-0.00034	-0.00034
	(!A0 * !A1 * !C0 * YN)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * !C0 * YN)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !C0 * YN)	0.00007	0.00007	0.00008

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X2H7H	(A0 * C0 * !YN)	0.00018	0.00018	0.00018
	(A0 * C0 * !YN)	0.00004	0.00004	0.00004
	(A0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * C0 * !YN)	-0.00033	-0.00032	-0.00032
	(!A0 * A1 * C0 * !YN)	0.00017	0.00017	0.00017
	(!A0 * A1 * C0 * !YN)	0.00004	0.00004	0.00004
	(!A0 * A1 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * C0 * !YN)	-0.00032	-0.00032	-0.00032
	(!A0 * !A1 * C0 * !YN)	0.00024	0.00024	0.00024
	(!A0 * !A1 * C0 * !YN)	0.00001	0.00002	0.00002
	(!A0 * !A1 * C0 * !YN)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * C0 * !YN)	-0.00027	-0.00025	-0.00022
	(!A0 * !A1 * !C0 * YN)	0.00034	0.00034	0.00034
	(!A0 * !A1 * !C0 * YN)	0.00001	0.00002	0.00002
	(!A0 * !A1 * !C0 * YN)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !C0 * YN)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X2H7H	(A0 * B0 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * B0 * !YN)	-0.00005	-0.00005	-0.00005
	(A0 * B0 * !YN)	0.00001	0.00001	0.00001
	(A0 * B0 * !YN)	0.00046	0.00046	0.00046
	(!A0 * A1 * B0 * !YN)	-0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * !YN)	-0.00005	-0.00005	-0.00005
	(!A0 * A1 * B0 * !YN)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * !YN)	0.00046	0.00046	0.00046

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X2H7H	(A0 * B0 * !YN)	-0.00000	0.00000	0.00000
	(A0 * B0 * !YN)	0.00005	0.00006	0.00006
	(A0 * B0 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !YN)	-0.00046	-0.00046	-0.00046
	(!A0 * A1 * B0 * !YN)	-0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * !YN)	0.00006	0.00006	0.00006
	(!A0 * A1 * B0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * !YN)	-0.00046	-0.00046	-0.00046

OAOI211X3H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

2-1-1 OAOI
ZN=(!(((A1|A2)&B)|(C))

Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	YN
0	0	x	0	1
x	x	x	1	0
x	1	0	0	1
x	1	1	x	0
1	x	0	0	1
1	x	1	x	0

Footprint

Cell Name	Area
OAOI211X3H7H	3.64000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	YN
OAOI211X3H7H	0.00182	0.00179	0.00202	0.00204	0.02800

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAOI211X3H7H	0.00000	0.03130	0.05566

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAOI211X3H7H	A0->YN (FR)	0.07966	0.25708	0.75849
	A1->YN (FR)	0.08361	0.25870	0.73883
	B0->YN (FR)	0.04722	0.18677	0.60184
	C0->YN (FR)	0.06130	0.23195	0.72450

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAOI211X3H7H	A0->YN (RF)	0.03526	0.14738	0.49083
	A1->YN (RF)	0.03696	0.15188	0.49645
	B0->YN (RF)	0.03147	0.14052	0.49067
	C0->YN (RF)	0.01506	0.09192	0.37882

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAOI211X3H7H	A0	0.00296	0.00301	0.00307
	A0	-0.00028	-0.00025	-0.00021
	A0	0.00029	0.00029	0.00029
	A0	-0.00015	-0.00010	-0.00005
	A1	0.00347	0.00353	0.00357
	A1	-0.00037	-0.00037	-0.00036
	A1	0.00029	0.00029	0.00029
	A1	-0.00014	-0.00008	-0.00003
	B0	0.00287	0.00294	0.00302
	B0	-0.00025	-0.00025	-0.00025
	B0	0.00013	0.00013	0.00014
	B0	-0.00016	-0.00009	-0.00001
	C0	0.00213	0.00222	0.00232
	C0	-0.00006	-0.00006	-0.00005
	C0	0.00029	0.00029	0.00029
	C0	-0.00027	-0.00020	-0.00011

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAOI211X3H7H	A0	-0.00026	-0.00019	-0.00011
	A0	0.00021	0.00025	0.00028
	A0	-0.00029	-0.00029	-0.00029
	A0	0.00284	0.00290	0.00295
	A1	-0.00026	-0.00021	-0.00018
	A1	0.00036	0.00037	0.00037
	A1	-0.00029	-0.00029	-0.00029
	A1	0.00320	0.00326	0.00330
	B0	-0.00026	-0.00019	-0.00013
	B0	0.00036	0.00037	0.00037
	B0	-0.00013	-0.00013	-0.00013
	B0	0.00244	0.00253	0.00260
	C0	-0.00028	-0.00018	-0.00011
	C0	0.00005	0.00006	0.00008
	C0	-0.00013	-0.00013	-0.00012
	C0	0.00228	0.00237	0.00244

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X3H7H	(A1 * B0 * C0 * !YN)	-0.00000	-0.00000	0.00000
	(A1 * B0 * C0 * !YN)	-0.00015	-0.00015	-0.00015
	(A1 * B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(A1 * B0 * C0 * !YN)	0.00058	0.00059	0.00059
	(A1 * B0 * !C0 * !YN)	-0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * !YN)	-0.00012	-0.00012	-0.00012
	(A1 * B0 * !C0 * !YN)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * !YN)	0.00059	0.00059	0.00059
	(A1 * !B0 * C0 * !YN)	-0.00035	-0.00032	-0.00027
	(A1 * !B0 * C0 * !YN)	-0.00006	-0.00005	-0.00005
	(A1 * !B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(A1 * !B0 * C0 * !YN)	0.00054	0.00055	0.00055
	(A1 * !B0 * !C0 * YN)	-0.00034	-0.00032	-0.00027
	(A1 * !B0 * !C0 * YN)	-0.00007	-0.00005	-0.00004
	(A1 * !B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(A1 * !B0 * !C0 * YN)	0.00054	0.00054	0.00055
	(!A1 * B0 * C0 * !YN)	-0.00033	-0.00029	-0.00024
	(!A1 * B0 * C0 * !YN)	-0.00006	-0.00006	-0.00005
	(!A1 * B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(!A1 * B0 * C0 * !YN)	0.00054	0.00055	0.00056
	(!A1 * !B0 * C0 * !YN)	-0.00043	-0.00043	-0.00043
	(!A1 * !B0 * C0 * !YN)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * C0 * !YN)	0.00003	0.00004	0.00004
	(!A1 * !B0 * C0 * !YN)	0.00044	0.00044	0.00044
	(!A1 * !B0 * !C0 * YN)	-0.00044	-0.00044	-0.00044
	(!A1 * !B0 * !C0 * YN)	-0.00003	-0.00002	-0.00001
	(!A1 * !B0 * !C0 * YN)	0.00004	0.00004	0.00004
	(!A1 * !B0 * !C0 * YN)	0.00043	0.00044	0.00044

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X3H7H	(A1 * B0 * C0 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !YN)	0.00015	0.00015	0.00015
	(A1 * B0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * C0 * !YN)	-0.00059	-0.00059	-0.00058
	(A1 * B0 * !C0 * !YN)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !C0 * !YN)	0.00013	0.00013	0.00013
	(A1 * B0 * !C0 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * !YN)	-0.00059	-0.00059	-0.00058
	(A1 * !B0 * C0 * !YN)	0.00034	0.00034	0.00035
	(A1 * !B0 * C0 * !YN)	0.00005	0.00005	0.00006
	(A1 * !B0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * C0 * !YN)	-0.00054	-0.00054	-0.00053
	(A1 * !B0 * !C0 * YN)	0.00034	0.00034	0.00035
	(A1 * !B0 * !C0 * YN)	0.00004	0.00005	0.00007
	(A1 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !C0 * YN)	-0.00054	-0.00054	-0.00054
	(!A1 * B0 * C0 * !YN)	0.00033	0.00033	0.00033
	(!A1 * B0 * C0 * !YN)	0.00006	0.00006	0.00006
	(!A1 * B0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * C0 * !YN)	-0.00054	-0.00054	-0.00054
	(!A1 * !B0 * C0 * !YN)	0.00043	0.00043	0.00043
	(!A1 * !B0 * C0 * !YN)	0.00002	0.00003	0.00003
	(!A1 * !B0 * C0 * !YN)	-0.00004	-0.00004	-0.00003
	(!A1 * !B0 * C0 * !YN)	-0.00044	-0.00042	-0.00037
	(!A1 * !B0 * !C0 * YN)	0.00044	0.00044	0.00044
	(!A1 * !B0 * !C0 * YN)	0.00002	0.00003	0.00004
	(!A1 * !B0 * !C0 * YN)	-0.00004	-0.00004	-0.00004
	(!A1 * !B0 * !C0 * YN)	-0.00044	-0.00040	-0.00035

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X3H7H	(A0 * B0 * C0 * !YN)	-0.00028	-0.00025	-0.00020
	(A0 * B0 * C0 * !YN)	-0.00006	-0.00006	-0.00006
	(A0 * B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(A0 * B0 * C0 * !YN)	0.00061	0.00061	0.00061
	(A0 * B0 * !C0 * !YN)	-0.00028	-0.00025	-0.00020
	(A0 * B0 * !C0 * !YN)	-0.00006	-0.00006	-0.00006
	(A0 * B0 * !C0 * !YN)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * !YN)	0.00061	0.00061	0.00061
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	-0.00029	-0.00026	-0.00022
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	-0.00006	-0.00006	-0.00005
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	0.00061	0.00061	0.00061
	(!A0 * B0 * C0 * !YN)	-0.00027	-0.00023	-0.00018
	(!A0 * B0 * C0 * !YN)	-0.00008	-0.00006	-0.00005
	(!A0 * B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(!A0 * B0 * C0 * !YN)	0.00061	0.00061	0.00062
	(!A0 * !B0 * C0 * !YN)	-0.00038	-0.00038	-0.00037
	(!A0 * !B0 * C0 * !YN)	-0.00003	-0.00002	-0.00002
	(!A0 * !B0 * C0 * !YN)	0.00002	0.00003	0.00004
	(!A0 * !B0 * C0 * !YN)	0.00050	0.00051	0.00051
	(!A0 * !B0 * !C0 * YN)	-0.00039	-0.00038	-0.00038
	(!A0 * !B0 * !C0 * YN)	-0.00002	-0.00002	-0.00001
	(!A0 * !B0 * !C0 * YN)	0.00004	0.00004	0.00004
	(!A0 * !B0 * !C0 * YN)	0.00049	0.00050	0.00050

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X3H7H	(A0 * B0 * C0 * !YN)	0.00027	0.00028	0.00028
	(A0 * B0 * C0 * !YN)	0.00006	0.00006	0.00006
	(A0 * B0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * C0 * !YN)	-0.00061	-0.00061	-0.00060
	(A0 * B0 * !C0 * !YN)	0.00028	0.00028	0.00028
	(A0 * B0 * !C0 * !YN)	0.00006	0.00006	0.00006
	(A0 * B0 * !C0 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * !YN)	-0.00061	-0.00061	-0.00061
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	0.00029	0.00029	0.00029
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	0.00005	0.00006	0.00006
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	-0.00061	-0.00060	-0.00060
	(!A0 * B0 * C0 * !YN)	0.00026	0.00026	0.00027
	(!A0 * B0 * C0 * !YN)	0.00005	0.00006	0.00008
	(!A0 * B0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * C0 * !YN)	-0.00061	-0.00061	-0.00060
	(!A0 * !B0 * C0 * !YN)	0.00037	0.00038	0.00038
	(!A0 * !B0 * C0 * !YN)	0.00002	0.00002	0.00003
	(!A0 * !B0 * C0 * !YN)	-0.00004	-0.00003	-0.00002
	(!A0 * !B0 * C0 * !YN)	-0.00051	-0.00048	-0.00043
	(!A0 * !B0 * !C0 * YN)	0.00039	0.00039	0.00039
	(!A0 * !B0 * !C0 * YN)	0.00002	0.00003	0.00003
	(!A0 * !B0 * !C0 * YN)	-0.00004	-0.00004	-0.00004
	(!A0 * !B0 * !C0 * YN)	-0.00050	-0.00047	-0.00041

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X3H7H	(A0 * C0 * !YN)	-0.00028	-0.00024	-0.00019
	(A0 * C0 * !YN)	-0.00007	-0.00006	-0.00006
	(A0 * C0 * !YN)	0.00001	0.00001	0.00001
	(A0 * C0 * !YN)	0.00062	0.00063	0.00063
	(!A0 * A1 * C0 * !YN)	-0.00027	-0.00023	-0.00018
	(!A0 * A1 * C0 * !YN)	-0.00007	-0.00006	-0.00005
	(!A0 * A1 * C0 * !YN)	0.00001	0.00001	0.00001
	(!A0 * A1 * C0 * !YN)	0.00062	0.00063	0.00063
	(!A0 * !A1 * C0 * !YN)	-0.00039	-0.00039	-0.00039
	(!A0 * !A1 * C0 * !YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * C0 * !YN)	0.00004	0.00004	0.00004
	(!A0 * !A1 * C0 * !YN)	0.00052	0.00052	0.00052
	(!A0 * !A1 * !C0 * YN)	-0.00062	-0.00061	-0.00060
	(!A0 * !A1 * !C0 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !C0 * YN)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !C0 * YN)	0.00014	0.00015	0.00015

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X3H7H	(A0 * C0 * !YN)	0.00028	0.00028	0.00028
	(A0 * C0 * !YN)	0.00006	0.00006	0.00007
	(A0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * C0 * !YN)	-0.00062	-0.00062	-0.00062
	(!A0 * A1 * C0 * !YN)	0.00027	0.00027	0.00027
	(!A0 * A1 * C0 * !YN)	0.00005	0.00006	0.00007
	(!A0 * A1 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * C0 * !YN)	-0.00062	-0.00062	-0.00061
	(!A0 * !A1 * C0 * !YN)	0.00039	0.00039	0.00039
	(!A0 * !A1 * C0 * !YN)	0.00002	0.00003	0.00003
	(!A0 * !A1 * C0 * !YN)	-0.00004	-0.00004	-0.00003
	(!A0 * !A1 * C0 * !YN)	-0.00052	-0.00049	-0.00044
	(!A0 * !A1 * !C0 * YN)	0.00061	0.00062	0.00062
	(!A0 * !A1 * !C0 * YN)	0.00002	0.00003	0.00003
	(!A0 * !A1 * !C0 * YN)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !C0 * YN)	-0.00015	-0.00014	-0.00014

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X3H7H	(A0 * B0 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * B0 * !YN)	-0.00008	-0.00008	-0.00008
	(A0 * B0 * !YN)	0.00001	0.00001	0.00001
	(A0 * B0 * !YN)	0.00076	0.00077	0.00077
	(!A0 * A1 * B0 * !YN)	-0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * !YN)	-0.00008	-0.00008	-0.00008
	(!A0 * A1 * B0 * !YN)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * !YN)	0.00076	0.00076	0.00077

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X3H7H	(A0 * B0 * !YN)	-0.00000	0.00000	0.00000
	(A0 * B0 * !YN)	0.00008	0.00009	0.00009
	(A0 * B0 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !YN)	-0.00077	-0.00076	-0.00076
	(!A0 * A1 * B0 * !YN)	-0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * !YN)	0.00008	0.00008	0.00009
	(!A0 * A1 * B0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * !YN)	-0.00077	-0.00076	-0.00076

OAOI211X4H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

2-1-1 OAOI
ZN=(!(((A1|A2)&B)|(C))

Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	YN
0	0	x	0	1
x	x	x	1	0
x	1	0	0	1
x	1	1	x	0
1	x	0	0	1
1	x	1	x	0

Footprint

Cell Name	Area
OAOI211X4H7H	4.20000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	YN
OAOI211X4H7H	0.00210	0.00207	0.00231	0.00235	0.03517

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAOI211X4H7H	0.00000	0.05018	0.11461

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAOI211X4H7H	A0->YN (FR)	0.07295	0.25228	0.75979
	A1->YN (FR)	0.07679	0.25384	0.74032
	B0->YN (FR)	0.04313	0.18385	0.60376
	C0->YN (FR)	0.05509	0.22761	0.72731

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAOI211X4H7H	A0->YN (RF)	0.03229	0.14429	0.49114
	A1->YN (RF)	0.03389	0.14889	0.49672
	B0->YN (RF)	0.02871	0.13760	0.48953
	C0->YN (RF)	0.01387	0.09046	0.38110

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAOI211X4H7H	A0	0.00346	0.00352	0.00358
	A0	-0.00038	-0.00033	-0.00033
	A0	0.00038	0.00038	0.00038
	A0	-0.00023	-0.00017	-0.00012
	A1	0.00407	0.00414	0.00419
	A1	-0.00049	-0.00049	-0.00048
	A1	0.00038	0.00038	0.00038
	A1	-0.00024	-0.00017	-0.00012
	B0	0.00337	0.00345	0.00354
	B0	-0.00034	-0.00033	-0.00032
	B0	0.00017	0.00017	0.00018
	B0	-0.00027	-0.00018	-0.00009
	C0	0.00245	0.00256	0.00267
	C0	-0.00009	-0.00008	0.00000
	C0	0.00037	0.00038	0.00038
	C0	-0.00036	-0.00027	-0.00017

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAOI211X4H7H	A0	-0.00034	-0.00025	-0.00020
	A0	0.00033	0.00033	0.00038
	A0	-0.00038	-0.00038	-0.00038
	A0	0.00332	0.00341	0.00346
	A1	-0.00033	-0.00027	-0.00023
	A1	0.00048	0.00049	0.00049
	A1	-0.00038	-0.00038	-0.00038
	A1	0.00379	0.00385	0.00391
	B0	-0.00033	-0.00025	-0.00018
	B0	0.00048	0.00049	0.00052
	B0	-0.00018	-0.00017	-0.00017
	B0	0.00288	0.00300	0.00308
	C0	-0.00036	-0.00024	-0.00011
	C0	0.00000	0.00008	0.00011
	C0	-0.00018	-0.00017	-0.00017
	C0	0.00263	0.00272	0.00281

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X4H7H	(A1 * B0 * C0 * !YN)	-0.00000	-0.00000	0.00000
	(A1 * B0 * C0 * !YN)	-0.00020	-0.00020	-0.00020
	(A1 * B0 * C0 * !YN)	0.00001	0.00001	0.00002
	(A1 * B0 * C0 * !YN)	0.00063	0.00064	0.00064
	(A1 * B0 * !C0 * !YN)	-0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * !YN)	-0.00017	-0.00016	-0.00016
	(A1 * B0 * !C0 * !YN)	0.00001	0.00001	0.00002
	(A1 * B0 * !C0 * !YN)	0.00064	0.00064	0.00065
	(A1 * !B0 * C0 * !YN)	-0.00042	-0.00038	-0.00033
	(A1 * !B0 * C0 * !YN)	-0.00007	-0.00007	-0.00007
	(A1 * !B0 * C0 * !YN)	0.00000	0.00001	0.00002
	(A1 * !B0 * C0 * !YN)	0.00060	0.00060	0.00062
	(A1 * !B0 * !C0 * YN)	-0.00042	-0.00038	-0.00033
	(A1 * !B0 * !C0 * YN)	-0.00009	-0.00007	-0.00006
	(A1 * !B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(A1 * !B0 * !C0 * YN)	0.00059	0.00060	0.00060
	(!A1 * B0 * C0 * !YN)	-0.00041	-0.00036	-0.00029
	(!A1 * B0 * C0 * !YN)	-0.00008	-0.00008	-0.00007
	(!A1 * B0 * C0 * !YN)	0.00001	0.00002	0.00002
	(!A1 * B0 * C0 * !YN)	0.00060	0.00060	0.00061
	(!A1 * !B0 * C0 * !YN)	-0.00053	-0.00053	-0.00053
	(!A1 * !B0 * C0 * !YN)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * C0 * !YN)	0.00005	0.00005	0.00005
	(!A1 * !B0 * C0 * !YN)	0.00048	0.00048	0.00049
	(!A1 * !B0 * !C0 * YN)	-0.00054	-0.00053	-0.00053
	(!A1 * !B0 * !C0 * YN)	-0.00003	-0.00003	-0.00002
	(!A1 * !B0 * !C0 * YN)	0.00005	0.00005	0.00005
	(!A1 * !B0 * !C0 * YN)	0.00048	0.00048	0.00048

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X4H7H	(A1 * B0 * C0 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !YN)	0.00020	0.00020	0.00020
	(A1 * B0 * C0 * !YN)	-0.00002	-0.00001	-0.00001
	(A1 * B0 * C0 * !YN)	-0.00064	-0.00064	-0.00063
	(A1 * B0 * !C0 * !YN)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !C0 * !YN)	0.00017	0.00017	0.00017
	(A1 * B0 * !C0 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * !YN)	-0.00064	-0.00064	-0.00063
	(A1 * !B0 * C0 * !YN)	0.00042	0.00042	0.00042
	(A1 * !B0 * C0 * !YN)	0.00007	0.00007	0.00007
	(A1 * !B0 * C0 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * C0 * !YN)	-0.00060	-0.00059	-0.00059
	(A1 * !B0 * !C0 * YN)	0.00042	0.00042	0.00042
	(A1 * !B0 * !C0 * YN)	0.00006	0.00007	0.00009
	(A1 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !C0 * YN)	-0.00060	-0.00060	-0.00059
	(!A1 * B0 * C0 * !YN)	0.00041	0.00041	0.00041
	(!A1 * B0 * C0 * !YN)	0.00007	0.00008	0.00008
	(!A1 * B0 * C0 * !YN)	-0.00002	-0.00002	-0.00001
	(!A1 * B0 * C0 * !YN)	-0.00060	-0.00060	-0.00059
	(!A1 * !B0 * C0 * !YN)	0.00053	0.00053	0.00053
	(!A1 * !B0 * C0 * !YN)	0.00003	0.00003	0.00003
	(!A1 * !B0 * C0 * !YN)	-0.00005	-0.00005	-0.00005
	(!A1 * !B0 * C0 * !YN)	-0.00049	-0.00046	-0.00041
	(!A1 * !B0 * !C0 * YN)	0.00053	0.00054	0.00054
	(!A1 * !B0 * !C0 * YN)	0.00002	0.00003	0.00003
	(!A1 * !B0 * !C0 * YN)	-0.00005	-0.00005	-0.00005
	(!A1 * !B0 * !C0 * YN)	-0.00048	-0.00044	-0.00039

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X4H7H	(A0 * B0 * C0 * !YN)	-0.00035	-0.00032	-0.00025
	(A0 * B0 * C0 * !YN)	-0.00008	-0.00007	-0.00007
	(A0 * B0 * C0 * !YN)	0.00001	0.00002	0.00002
	(A0 * B0 * C0 * !YN)	0.00067	0.00067	0.00067
	(A0 * B0 * !C0 * !YN)	-0.00036	-0.00032	-0.00026
	(A0 * B0 * !C0 * !YN)	-0.00008	-0.00007	-0.00007
	(A0 * B0 * !C0 * !YN)	0.00001	0.00002	0.00002
	(A0 * B0 * !C0 * !YN)	0.00067	0.00067	0.00068
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	-0.00036	-0.00033	-0.00027
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	-0.00007	-0.00007	-0.00007
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	0.00001	0.00001	0.00002
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	0.00067	0.00067	0.00067
	(!A0 * B0 * C0 * !YN)	-0.00033	-0.00029	-0.00023
	(!A0 * B0 * C0 * !YN)	-0.00010	-0.00008	-0.00007
	(!A0 * B0 * C0 * !YN)	0.00001	0.00002	0.00002
	(!A0 * B0 * C0 * !YN)	0.00067	0.00067	0.00068
	(!A0 * !B0 * C0 * !YN)	-0.00047	-0.00047	-0.00047
	(!A0 * !B0 * C0 * !YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !B0 * C0 * !YN)	0.00005	0.00005	0.00005
	(!A0 * !B0 * C0 * !YN)	0.00055	0.00055	0.00055
	(!A0 * !B0 * !C0 * YN)	-0.00048	-0.00047	-0.00047
	(!A0 * !B0 * !C0 * YN)	-0.00004	-0.00003	-0.00003
	(!A0 * !B0 * !C0 * YN)	0.00005	0.00005	0.00005
	(!A0 * !B0 * !C0 * YN)	0.00054	0.00055	0.00055

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X4H7H	(A0 * B0 * C0 * !YN)	0.00035	0.00035	0.00035
	(A0 * B0 * C0 * !YN)	0.00007	0.00007	0.00008
	(A0 * B0 * C0 * !YN)	-0.00002	-0.00001	-0.00001
	(A0 * B0 * C0 * !YN)	-0.00067	-0.00067	-0.00066
	(A0 * B0 * !C0 * !YN)	0.00035	0.00035	0.00036
	(A0 * B0 * !C0 * !YN)	0.00007	0.00007	0.00008
	(A0 * B0 * !C0 * !YN)	-0.00002	-0.00001	-0.00001
	(A0 * B0 * !C0 * !YN)	-0.00067	-0.00067	-0.00067
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	0.00036	0.00036	0.00036
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	0.00007	0.00007	0.00007
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	-0.00067	-0.00067	-0.00066
	(!A0 * B0 * C0 * !YN)	0.00033	0.00033	0.00034
	(!A0 * B0 * C0 * !YN)	0.00007	0.00008	0.00010
	(!A0 * B0 * C0 * !YN)	-0.00002	-0.00001	-0.00001
	(!A0 * B0 * C0 * !YN)	-0.00067	-0.00067	-0.00066
	(!A0 * !B0 * C0 * !YN)	0.00047	0.00047	0.00047
	(!A0 * !B0 * C0 * !YN)	0.00003	0.00003	0.00003
	(!A0 * !B0 * C0 * !YN)	-0.00005	-0.00005	-0.00005
	(!A0 * !B0 * C0 * !YN)	-0.00055	-0.00052	-0.00047
	(!A0 * !B0 * !C0 * YN)	0.00048	0.00048	0.00048
	(!A0 * !B0 * !C0 * YN)	0.00003	0.00003	0.00004
	(!A0 * !B0 * !C0 * YN)	-0.00005	-0.00005	-0.00005
	(!A0 * !B0 * !C0 * YN)	-0.00055	-0.00051	-0.00045

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X4H7H	(A0 * C0 * !YN)	-0.00036	-0.00031	-0.00024
	(A0 * C0 * !YN)	-0.00008	-0.00008	-0.00008
	(A0 * C0 * !YN)	0.00001	0.00001	0.00002
	(A0 * C0 * !YN)	0.00068	0.00068	0.00069
	(!A0 * A1 * C0 * !YN)	-0.00034	-0.00029	-0.00023
	(!A0 * A1 * C0 * !YN)	-0.00009	-0.00008	-0.00008
	(!A0 * A1 * C0 * !YN)	0.00001	0.00002	0.00002
	(!A0 * A1 * C0 * !YN)	0.00068	0.00068	0.00069
	(!A0 * !A1 * C0 * !YN)	-0.00049	-0.00048	-0.00048
	(!A0 * !A1 * C0 * !YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * C0 * !YN)	0.00005	0.00005	0.00005
	(!A0 * !A1 * C0 * !YN)	0.00056	0.00057	0.00057
	(!A0 * !A1 * !C0 * YN)	-0.00073	-0.00072	-0.00071
	(!A0 * !A1 * !C0 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !C0 * YN)	0.00008	0.00008	0.00008
	(!A0 * !A1 * !C0 * YN)	0.00014	0.00014	0.00015

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X4H7H	(A0 * C0 * !YN)	0.00035	0.00035	0.00036
	(A0 * C0 * !YN)	0.00008	0.00008	0.00008
	(A0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * C0 * !YN)	-0.00068	-0.00068	-0.00068
	(!A0 * A1 * C0 * !YN)	0.00033	0.00034	0.00034
	(!A0 * A1 * C0 * !YN)	0.00008	0.00008	0.00009
	(!A0 * A1 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * C0 * !YN)	-0.00068	-0.00068	-0.00067
	(!A0 * !A1 * C0 * !YN)	0.00048	0.00049	0.00049
	(!A0 * !A1 * C0 * !YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * C0 * !YN)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * C0 * !YN)	-0.00057	-0.00053	-0.00047
	(!A0 * !A1 * !C0 * YN)	0.00072	0.00072	0.00073
	(!A0 * !A1 * !C0 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !C0 * YN)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * !C0 * YN)	-0.00014	-0.00014	-0.00014

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X4H7H	(A0 * B0 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * B0 * !YN)	-0.00011	-0.00011	-0.00011
	(A0 * B0 * !YN)	0.00001	0.00002	0.00002
	(A0 * B0 * !YN)	0.00085	0.00086	0.00086
	(!A0 * A1 * B0 * !YN)	-0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * !YN)	-0.00010	-0.00010	-0.00010
	(!A0 * A1 * B0 * !YN)	0.00001	0.00002	0.00002
	(!A0 * A1 * B0 * !YN)	0.00085	0.00085	0.00086

Passive power(pJ) for C0 falling (conditional):

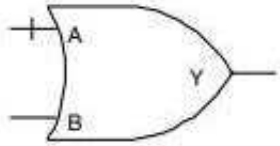
Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X4H7H	(A0 * B0 * !YN)	-0.00000	0.00000	0.00000
	(A0 * B0 * !YN)	0.00011	0.00011	0.00011
	(A0 * B0 * !YN)	-0.00002	-0.00002	-0.00001
	(A0 * B0 * !YN)	-0.00086	-0.00085	-0.00085
	(!A0 * A1 * B0 * !YN)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * B0 * !YN)	0.00011	0.00011	0.00011
	(!A0 * A1 * B0 * !YN)	-0.00002	-0.00001	-0.00001
	(!A0 * A1 * B0 * !YN)	-0.00086	-0.00085	-0.00084

OR2X0P5H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OR2 cell provides the logical OR of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	0	0
x	1	1
1	x	1

Footprint

Cell Name	Area
OR2X0P5H7H	1.40000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
OR2X0P5H7H	0.00088	0.00094	0.03036

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OR2X0P5H7H	0.00000	0.01127	0.01377

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR2X0P5H7H	A->Y (RR)	0.05027	0.21535	0.61595
	B->Y (RR)	0.04861	0.21152	0.60645

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR2X0P5H7H	A->Y (FF)	0.09156	0.23041	0.56522
	B->Y (FF)	0.08831	0.22397	0.55194

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR2X0P5H7H	A	0.00036	0.00042	0.00047
	A	0.00004	0.00005	0.00005
	A	-0.00002	-0.00003	-0.00002
	A	0.00124	0.00130	0.00135
	B	0.00035	0.00042	0.00048
	B	-0.00000	-0.00000	0.00000
	B	-0.00003	-0.00002	-0.00002
	B	0.00112	0.00118	0.00124

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR2X0P5H7H	A	0.00130	0.00136	0.00141
	A	-0.00005	-0.00005	-0.00004
	A	0.00002	0.00003	0.00003
	A	0.00040	0.00046	0.00051
	B	0.00117	0.00122	0.00128
	B	0.00000	0.00000	0.00000
	B	0.00002	0.00003	0.00003
	B	0.00041	0.00046	0.00052

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR2X0P5H7H	(B * Y)	-0.00010	-0.00009	-0.00007
	(B * Y)	-0.00003	-0.00002	-0.00002
	(B * Y)	0.00000	0.00000	0.00000
	(B * Y)	0.00030	0.00030	0.00030

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR2X0P5H7H	(B * Y)	0.00009	0.00010	0.00010
	(B * Y)	0.00002	0.00002	0.00003
	(B * Y)	-0.00000	-0.00000	-0.00000
	(B * Y)	-0.00030	-0.00030	-0.00030

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR2X0P5H7H	(A * Y)	-0.00000	-0.00000	0.00000
	(A * Y)	-0.00003	-0.00003	-0.00003
	(A * Y)	0.00000	0.00000	0.00000
	(A * Y)	0.00035	0.00035	0.00035

Passive power(pJ) for B falling (conditional):

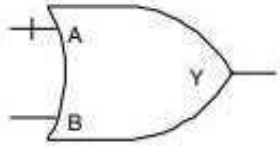
Cell Name	When	Power(pJ)		
		min	avg	max
OR2X0P5H7H	(A * Y)	-0.00000	0.00000	0.00000
	(A * Y)	0.00003	0.00003	0.00003
	(A * Y)	-0.00000	-0.00000	-0.00000
	(A * Y)	-0.00035	-0.00035	-0.00035

OR2X0P7H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OR2 cell provides the logical OR of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	0	0
x	1	1
1	x	1

Footprint

Cell Name	Area
OR2X0P7H7H	1.40000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
OR2X0P7H7H	0.00089	0.00095	0.03455

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OR2X0P7H7H	0.00000	0.01273	0.01328

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR2X0P7H7H	A->Y (RR)	0.04946	0.21543	0.61828
	B->Y (RR)	0.04777	0.21158	0.60855

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR2X0P7H7H	A->Y (FF)	0.09230	0.23295	0.57153
	B->Y (FF)	0.08909	0.22657	0.55847

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR2X0P7H7H	A	0.00040	0.00047	0.00052
	A	0.00004	0.00004	0.00004
	A	-0.00002	-0.00002	-0.00002
	A	0.00129	0.00135	0.00140
	B	0.00039	0.00046	0.00052
	B	-0.00000	-0.00000	-0.00000
	B	-0.00002	-0.00002	-0.00002
	B	0.00116	0.00122	0.00129

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR2X0P7H7H	A	0.00133	0.00139	0.00145
	A	-0.00004	-0.00004	-0.00004
	A	0.00002	0.00002	0.00002
	A	0.00042	0.00048	0.00054
	B	0.00120	0.00126	0.00132
	B	0.00000	0.00000	0.00000
	B	0.00002	0.00002	0.00002
	B	0.00043	0.00049	0.00055

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR2X0P7H7H	(B * Y)	-0.00010	-0.00009	-0.00007
	(B * Y)	-0.00002	-0.00002	-0.00001
	(B * Y)	0.00000	0.00000	0.00000
	(B * Y)	0.00031	0.00031	0.00031

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR2X0P7H7H	(B * Y)	0.00009	0.00010	0.00010
	(B * Y)	0.00001	0.00002	0.00002
	(B * Y)	-0.00000	-0.00000	-0.00000
	(B * Y)	-0.00031	-0.00031	-0.00030

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR2X0P7H7H	(A * Y)	-0.00000	-0.00000	0.00000
	(A * Y)	-0.00003	-0.00003	-0.00003
	(A * Y)	0.00000	0.00000	0.00000
	(A * Y)	0.00035	0.00035	0.00035

Passive power(pJ) for B falling (conditional):

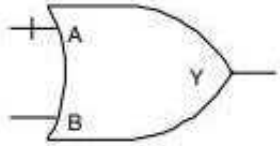
Cell Name	When	Power(pJ)		
		min	avg	max
OR2X0P7H7H	(A * Y)	-0.00000	0.00000	0.00000
	(A * Y)	0.00003	0.00003	0.00003
	(A * Y)	-0.00000	-0.00000	-0.00000
	(A * Y)	-0.00035	-0.00035	-0.00035

OR2X12H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OR2 cell provides the logical OR of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	0	0
x	1	1
1	x	1

Footprint

Cell Name	Area
OR2X12H7H	4.76000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
OR2X12H7H	0.00222	0.00233	0.32820

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OR2X12H7H	0.00000	0.16210	0.16292

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR2X12H7H	A->Y (RR)	0.04769	0.22769	0.66204
	B->Y (RR)	0.04526	0.22322	0.65254

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR2X12H7H	A->Y (FF)	0.10075	0.26289	0.64114
	B->Y (FF)	0.09587	0.25437	0.62549

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR2X12H7H	A	0.00337	0.00375	0.00411
	A	-0.00000	-0.00000	0.00000
	A	0.00007	0.00007	0.00007
	A	0.00549	0.00587	0.00622
	B	0.00337	0.00378	0.00415
	B	-0.00018	-0.00018	-0.00017
	B	0.00006	0.00007	0.00008
	B	0.00498	0.00539	0.00574

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR2X12H7H	A	0.00603	0.00637	0.00669
	A	0.00000	0.00000	0.00000
	A	-0.00007	-0.00007	-0.00006
	A	0.00380	0.00413	0.00446
	B	0.00531	0.00567	0.00602
	B	0.00017	0.00018	0.00020
	B	-0.00007	-0.00007	-0.00006
	B	0.00371	0.00405	0.00442

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR2X12H7H	(B * Y)	-0.00036	-0.00032	-0.00026
	(B * Y)	-0.00007	-0.00007	-0.00007
	(B * Y)	0.00001	0.00001	0.00001
	(B * Y)	0.00067	0.00068	0.00069

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR2X12H7H	(B * Y)	0.00036	0.00036	0.00036
	(B * Y)	0.00007	0.00007	0.00007
	(B * Y)	-0.00001	-0.00001	-0.00001
	(B * Y)	-0.00067	-0.00067	-0.00066

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR2X12H7H	(A * Y)	-0.00000	-0.00000	0.00000
	(A * Y)	-0.00010	-0.00010	-0.00010
	(A * Y)	0.00001	0.00001	0.00002
	(A * Y)	0.00085	0.00086	0.00087

Passive power(pJ) for B falling (conditional):

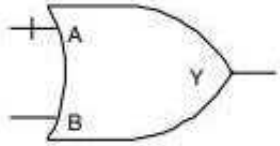
Cell Name	When	Power(pJ)		
		min	avg	max
OR2X12H7H	(A * Y)	0.00000	0.00000	0.00000
	(A * Y)	0.00010	0.00011	0.00013
	(A * Y)	-0.00001	-0.00001	-0.00001
	(A * Y)	-0.00086	-0.00086	-0.00085

OR2X16H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OR2 cell provides the logical OR of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	0	0
x	1	1
1	x	1

Footprint

Cell Name	Area
OR2X16H7H	6.16000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
OR2X16H7H	0.00326	0.00343	0.44122

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OR2X16H7H	0.00000	0.22256	0.22256

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR2X16H7H	A->Y (RR)	0.04479	0.22385	0.65583
	B->Y (RR)	0.04251	0.21942	0.64656

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR2X16H7H	A->Y (FF)	0.09394	0.25427	0.62887
	B->Y (FF)	0.08951	0.24633	0.61433

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR2X16H7H	A	0.00443	0.00496	0.00543
	A	0.00003	0.00004	0.00004
	A	0.00006	0.00006	0.00006
	A	0.00764	0.00817	0.00864
	B	0.00441	0.00497	0.00547
	B	-0.00023	-0.00022	-0.00017
	B	0.00005	0.00006	0.00008
	B	0.00687	0.00744	0.00792

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR2X16H7H	A	0.00833	0.00881	0.00924
	A	-0.00004	-0.00004	-0.00003
	A	-0.00006	-0.00006	-0.00005
	A	0.00495	0.00541	0.00586
	B	0.00735	0.00784	0.00832
	B	0.00017	0.00022	0.00027
	B	-0.00007	-0.00006	-0.00005
	B	0.00489	0.00537	0.00587

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR2X16H7H	(B * Y)	-0.00054	-0.00048	-0.00039
	(B * Y)	-0.00011	-0.00011	-0.00010
	(B * Y)	0.00002	0.00002	0.00002
	(B * Y)	0.00098	0.00099	0.00101

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR2X16H7H	(B * Y)	0.00053	0.00054	0.00054
	(B * Y)	0.00010	0.00011	0.00011
	(B * Y)	-0.00002	-0.00002	-0.00002
	(B * Y)	-0.00098	-0.00098	-0.00097

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR2X16H7H	(A * Y)	-0.00000	-0.00000	0.00000
	(A * Y)	-0.00016	-0.00016	-0.00016
	(A * Y)	0.00002	0.00002	0.00002
	(A * Y)	0.00124	0.00126	0.00126

Passive power(pJ) for B falling (conditional):

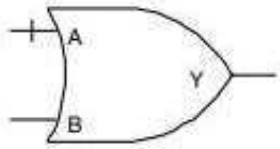
Cell Name	When	Power(pJ)		
		min	avg	max
OR2X16H7H	(A * Y)	0.00000	0.00000	0.00001
	(A * Y)	0.00016	0.00016	0.00017
	(A * Y)	-0.00002	-0.00002	-0.00002
	(A * Y)	-0.00125	-0.00125	-0.00124

OR2X1H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OR2 cell provides the logical OR of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	0	0
x	1	1
1	x	1

Footprint

Cell Name	Area
OR2X1H7H	1.68000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
OR2X1H7H	0.00089	0.00094	0.04140

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OR2X1H7H	0.00000	0.01596	0.01761

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR2X1H7H	A->Y (RR)	0.04760	0.21486	0.62123
	B->Y (RR)	0.04593	0.21104	0.61238

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR2X1H7H	A->Y (FF)	0.09222	0.23744	0.58681
	B->Y (FF)	0.08903	0.23109	0.57349

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR2X1H7H	A	0.00044	0.00050	0.00055
	A	0.00003	0.00003	0.00004
	A	-0.00002	-0.00002	-0.00001
	A	0.00131	0.00137	0.00142
	B	0.00042	0.00049	0.00056
	B	-0.00001	-0.00001	-0.00001
	B	-0.00002	-0.00002	-0.00002
	B	0.00117	0.00124	0.00130

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR2X1H7H	A	0.00134	0.00140	0.00147
	A	-0.00004	-0.00003	-0.00003
	A	0.00001	0.00002	0.00002
	A	0.00045	0.00051	0.00057
	B	0.00121	0.00127	0.00134
	B	0.00001	0.00001	0.00001
	B	0.00002	0.00002	0.00002
	B	0.00047	0.00052	0.00059

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR2X1H7H	(B * Y)	-0.00009	-0.00009	-0.00007
	(B * Y)	-0.00002	-0.00002	-0.00002
	(B * Y)	0.00000	0.00000	0.00000
	(B * Y)	0.00031	0.00031	0.00031

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR2X1H7H	(B * Y)	0.00009	0.00009	0.00009
	(B * Y)	0.00002	0.00002	0.00002
	(B * Y)	-0.00000	-0.00000	-0.00000
	(B * Y)	-0.00031	-0.00031	-0.00031

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR2X1H7H	(A * Y)	-0.00000	-0.00000	0.00000
	(A * Y)	-0.00003	-0.00003	-0.00003
	(A * Y)	0.00000	0.00000	0.00000
	(A * Y)	0.00034	0.00035	0.00035

Passive power(pJ) for B falling (conditional):

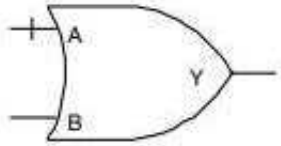
Cell Name	When	Power(pJ)		
		min	avg	max
OR2X1H7H	(A * Y)	0.00000	0.00000	0.00000
	(A * Y)	0.00003	0.00003	0.00003
	(A * Y)	-0.00000	-0.00000	-0.00000
	(A * Y)	-0.00035	-0.00035	-0.00034

OR2X1P4H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OR2 cell provides the logical OR of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	0	0
x	1	1
1	x	1

Footprint

Cell Name	Area
OR2X1P4H7H	1.40000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
OR2X1P4H7H	0.00091	0.00093	0.04708

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OR2X1P4H7H	0.00000	0.02006	0.02302

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR2X1P4H7H	A->Y (RR)	0.04824	0.21673	0.62579
	B->Y (RR)	0.04633	0.21276	0.61587

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR2X1P4H7H	A->Y (FF)	0.09559	0.24336	0.59835
	B->Y (FF)	0.09174	0.23662	0.58482

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR2X1P4H7H	A	0.00050	0.00057	0.00063
	A	0.00003	0.00003	0.00003
	A	-0.00001	-0.00001	-0.00001
	A	0.00137	0.00144	0.00150
	B	0.00049	0.00057	0.00064
	B	-0.00002	-0.00002	-0.00000
	B	-0.00001	-0.00001	-0.00001
	B	0.00123	0.00130	0.00137

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR2X1P4H7H	A	0.00141	0.00148	0.00155
	A	-0.00003	-0.00003	-0.00003
	A	0.00001	0.00001	0.00002
	A	0.00052	0.00059	0.00065
	B	0.00127	0.00134	0.00141
	B	0.00000	0.00002	0.00002
	B	0.00001	0.00001	0.00001
	B	0.00054	0.00060	0.00067

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR2X1P4H7H	(B * Y)	-0.00010	-0.00009	-0.00007
	(B * Y)	-0.00003	-0.00002	-0.00002
	(B * Y)	0.00000	0.00000	0.00000
	(B * Y)	0.00032	0.00032	0.00032

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR2X1P4H7H	(B * Y)	0.00009	0.00010	0.00010
	(B * Y)	0.00002	0.00002	0.00003
	(B * Y)	-0.00000	-0.00000	-0.00000
	(B * Y)	-0.00032	-0.00032	-0.00032

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR2X1P4H7H	(A * Y)	-0.00000	-0.00000	0.00000
	(A * Y)	-0.00003	-0.00003	-0.00003
	(A * Y)	0.00000	0.00000	0.00000
	(A * Y)	0.00034	0.00034	0.00035

Passive power(pJ) for B falling (conditional):

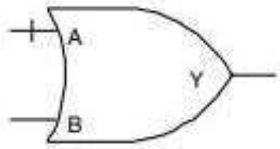
Cell Name	When	Power(pJ)		
		min	avg	max
OR2X1P4H7H	(A * Y)	0.00000	0.00000	0.00000
	(A * Y)	0.00003	0.00003	0.00003
	(A * Y)	-0.00000	-0.00000	-0.00000
	(A * Y)	-0.00035	-0.00034	-0.00034

OR2X2H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OR2 cell provides the logical OR of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	0	0
x	1	1
1	x	1

Footprint

Cell Name	Area
OR2X2H7H	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
OR2X2H7H	0.00083	0.00097	0.06063

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OR2X2H7H	0.00000	0.01582	0.02105

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR2X2H7H	A->Y (RR)	0.05236	0.22522	0.64414
	B->Y (RR)	0.05122	0.22243	0.63672

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR2X2H7H	A->Y (FF)	0.10570	0.25516	0.61039
	B->Y (FF)	0.10427	0.25090	0.60178

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR2X2H7H	A	0.00074	0.00083	0.00091
	A	0.00002	0.00003	0.00003
	A	-0.00000	-0.00000	-0.00000
	A	0.00155	0.00164	0.00172
	B	0.00072	0.00082	0.00092
	B	-0.00002	-0.00002	-0.00002
	B	-0.00000	-0.00000	0.00000
	B	0.00144	0.00155	0.00164

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR2X2H7H	A	0.00168	0.00176	0.00184
	A	-0.00003	-0.00003	-0.00002
	A	0.00000	0.00000	0.00001
	A	0.00085	0.00093	0.00101
	B	0.00156	0.00164	0.00174
	B	0.00002	0.00002	0.00002
	B	0.00000	0.00000	0.00000
	B	0.00084	0.00092	0.00102

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR2X2H7H	(B * Y)	-0.00010	-0.00009	-0.00007
	(B * Y)	-0.00002	-0.00002	-0.00001
	(B * Y)	0.00000	0.00000	0.00000
	(B * Y)	0.00028	0.00028	0.00029

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR2X2H7H	(B * Y)	0.00010	0.00010	0.00010
	(B * Y)	0.00001	0.00002	0.00002
	(B * Y)	-0.00000	-0.00000	-0.00000
	(B * Y)	-0.00028	-0.00028	-0.00028

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR2X2H7H	(A * Y)	-0.00000	-0.00000	0.00000
	(A * Y)	-0.00003	-0.00003	-0.00002
	(A * Y)	0.00000	0.00000	0.00000
	(A * Y)	0.00036	0.00036	0.00036

Passive power(pJ) for B falling (conditional):

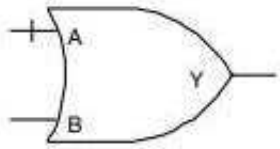
Cell Name	When	Power(pJ)		
		min	avg	max
OR2X2H7H	(A * Y)	0.00000	0.00000	0.00001
	(A * Y)	0.00002	0.00003	0.00003
	(A * Y)	-0.00000	-0.00000	-0.00000
	(A * Y)	-0.00036	-0.00036	-0.00036

OR2X3H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OR2 cell provides the logical OR of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	0	0
x	1	1
1	x	1

Footprint

Cell Name	Area
OR2X3H7H	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
OR2X3H7H	0.00100	0.00106	0.08650

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OR2X3H7H	0.00000	0.03196	0.03196

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR2X3H7H	A->Y (RR)	0.04810	0.22268	0.64598
	B->Y (RR)	0.04620	0.21883	0.63619

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR2X3H7H	A->Y (FF)	0.09612	0.24879	0.61078
	B->Y (FF)	0.09247	0.24230	0.59802

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR2X3H7H	A	0.00092	0.00104	0.00114
	A	0.00003	0.00003	0.00003
	A	-0.00000	-0.00000	0.00000
	A	0.00189	0.00200	0.00210
	B	0.00091	0.00103	0.00115
	B	-0.00004	-0.00003	-0.00003
	B	-0.00000	-0.00000	0.00000
	B	0.00172	0.00184	0.00195

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR2X3H7H	A	0.00205	0.00216	0.00226
	A	-0.00003	-0.00003	-0.00003
	A	0.00000	0.00000	0.00000
	A	0.00105	0.00115	0.00126
	B	0.00186	0.00197	0.00208
	B	0.00003	0.00003	0.00004
	B	-0.00000	0.00000	0.00000
	B	0.00105	0.00115	0.00127

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR2X3H7H	(B * Y)	-0.00013	-0.00012	-0.00010
	(B * Y)	-0.00003	-0.00003	-0.00002
	(B * Y)	0.00000	0.00001	0.00001
	(B * Y)	0.00033	0.00033	0.00033

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR2X3H7H	(B * Y)	0.00012	0.00013	0.00013
	(B * Y)	0.00002	0.00003	0.00003
	(B * Y)	-0.00001	-0.00001	-0.00000
	(B * Y)	-0.00033	-0.00033	-0.00033

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR2X3H7H	(A * Y)	-0.00000	-0.00000	0.00000
	(A * Y)	-0.00004	-0.00004	-0.00004
	(A * Y)	0.00000	0.00001	0.00001
	(A * Y)	0.00038	0.00039	0.00039

Passive power(pJ) for B falling (conditional):

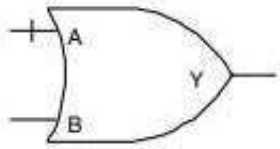
Cell Name	When	Power(pJ)		
		min	avg	max
OR2X3H7H	(A * Y)	0.00000	0.00000	0.00000
	(A * Y)	0.00004	0.00004	0.00005
	(A * Y)	-0.00001	-0.00001	-0.00000
	(A * Y)	-0.00039	-0.00038	-0.00038

OR2X4H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OR2 cell provides the logical OR of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	0	0
x	1	1
1	x	1

Footprint

Cell Name	Area
OR2X4H7H	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
OR2X4H7H	0.00096	0.00111	0.11653

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OR2X4H7H	0.00000	0.04143	0.05002

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR2X4H7H	A->Y (RR)	0.04937	0.22726	0.65795
	B->Y (RR)	0.04838	0.22461	0.65058

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR2X4H7H	A->Y (FF)	0.10138	0.25746	0.62511
	B->Y (FF)	0.10018	0.25343	0.61588

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR2X4H7H	A	0.00135	0.00150	0.00164
	A	0.00002	0.00002	0.00002
	A	0.00001	0.00001	0.00001
	A	0.00232	0.00247	0.00261
	B	0.00133	0.00150	0.00165
	B	-0.00005	-0.00005	-0.00005
	B	0.00001	0.00001	0.00001
	B	0.00213	0.00230	0.00245

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR2X4H7H	A	0.00252	0.00265	0.00279
	A	-0.00002	-0.00002	-0.00002
	A	-0.00001	-0.00001	-0.00001
	A	0.00152	0.00165	0.00178
	B	0.00234	0.00248	0.00263
	B	0.00005	0.00005	0.00005
	B	-0.00001	-0.00001	-0.00001
	B	0.00153	0.00167	0.00183

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR2X4H7H	(B * Y)	-0.00014	-0.00012	-0.00011
	(B * Y)	-0.00003	-0.00003	-0.00003
	(B * Y)	0.00001	0.00001	0.00001
	(B * Y)	0.00033	0.00034	0.00034

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR2X4H7H	(B * Y)	0.00013	0.00014	0.00014
	(B * Y)	0.00003	0.00003	0.00003
	(B * Y)	-0.00001	-0.00001	-0.00001
	(B * Y)	-0.00033	-0.00033	-0.00033

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR2X4H7H	(A * Y)	-0.00000	-0.00000	0.00000
	(A * Y)	-0.00005	-0.00004	-0.00004
	(A * Y)	0.00001	0.00001	0.00001
	(A * Y)	0.00040	0.00041	0.00041

Passive power(pJ) for B falling (conditional):

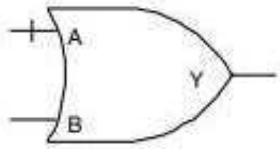
Cell Name	When	Power(pJ)		
		min	avg	max
OR2X4H7H	(A * Y)	0.00000	0.00000	0.00001
	(A * Y)	0.00004	0.00005	0.00005
	(A * Y)	-0.00001	-0.00001	-0.00001
	(A * Y)	-0.00041	-0.00041	-0.00040

OR2X6H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OR2 cell provides the logical OR of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	0	0
x	1	1
1	x	1

Footprint

Cell Name	Area
OR2X6H7H	3.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
OR2X6H7H	0.00106	0.00122	0.16413

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OR2X6H7H	0.00000	0.08108	0.08146

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR2X6H7H	A->Y (RR)	0.04854	0.22795	0.66164
	B->Y (RR)	0.04728	0.22504	0.65489

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR2X6H7H	A->Y (FF)	0.10137	0.26206	0.63954
	B->Y (FF)	0.09965	0.25744	0.62943

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR2X6H7H	A	0.00174	0.00192	0.00209
	A	-0.00000	-0.00000	0.00000
	A	0.00003	0.00003	0.00003
	A	0.00275	0.00294	0.00310
	B	0.00172	0.00192	0.00211
	B	-0.00009	-0.00009	-0.00008
	B	0.00003	0.00003	0.00004
	B	0.00253	0.00273	0.00291

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR2X6H7H	A	0.00295	0.00312	0.00327
	A	0.00000	0.00000	0.00000
	A	-0.00003	-0.00003	-0.00003
	A	0.00190	0.00206	0.00222
	B	0.00272	0.00290	0.00308
	B	0.00008	0.00009	0.00009
	B	-0.00003	-0.00003	-0.00003
	B	0.00191	0.00208	0.00227

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR2X6H7H	(B * Y)	-0.00016	-0.00015	-0.00012
	(B * Y)	-0.00004	-0.00003	-0.00003
	(B * Y)	0.00001	0.00001	0.00001
	(B * Y)	0.00035	0.00035	0.00035

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR2X6H7H	(B * Y)	0.00016	0.00016	0.00016
	(B * Y)	0.00003	0.00003	0.00004
	(B * Y)	-0.00001	-0.00001	-0.00001
	(B * Y)	-0.00035	-0.00035	-0.00034

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR2X6H7H	(A * Y)	-0.00000	-0.00000	-0.00000
	(A * Y)	-0.00006	-0.00006	-0.00006
	(A * Y)	0.00001	0.00001	0.00001
	(A * Y)	0.00043	0.00043	0.00044

Passive power(pJ) for B falling (conditional):

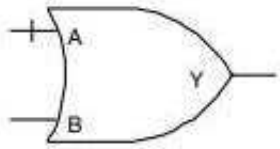
Cell Name	When	Power(pJ)		
		min	avg	max
OR2X6H7H	(A * Y)	0.00000	0.00000	0.00000
	(A * Y)	0.00006	0.00006	0.00006
	(A * Y)	-0.00001	-0.00001	-0.00001
	(A * Y)	-0.00043	-0.00043	-0.00043

OR2X8H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OR2 cell provides the logical OR of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	0	0
x	1	1
1	x	1

Footprint

Cell Name	Area
OR2X8H7H	3.92000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
OR2X8H7H	0.00199	0.00211	0.21946

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OR2X8H7H	0.00000	0.11036	0.11253

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR2X8H7H	A->Y (RR)	0.04377	0.21990	0.64601
	B->Y (RR)	0.04153	0.21516	0.63379

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR2X8H7H	A->Y (FF)	0.09075	0.24732	0.61441
	B->Y (FF)	0.08580	0.23824	0.59729

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR2X8H7H	A	0.00216	0.00244	0.00268
	A	0.00003	0.00003	0.00004
	A	0.00001	0.00001	0.00002
	A	0.00414	0.00441	0.00465
	B	0.00216	0.00245	0.00271
	B	-0.00011	-0.00011	-0.00009
	B	0.00001	0.00001	0.00002
	B	0.00372	0.00401	0.00426

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR2X8H7H	A	0.00455	0.00480	0.00502
	A	-0.00004	-0.00003	-0.00003
	A	-0.00001	-0.00001	-0.00001
	A	0.00247	0.00271	0.00295
	B	0.00394	0.00420	0.00445
	B	0.00009	0.00011	0.00013
	B	-0.00001	-0.00001	-0.00001
	B	0.00239	0.00263	0.00289

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR2X8H7H	(B * Y)	-0.00031	-0.00027	-0.00022
	(B * Y)	-0.00006	-0.00006	-0.00006
	(B * Y)	0.00001	0.00001	0.00001
	(B * Y)	0.00063	0.00064	0.00066

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR2X8H7H	(B * Y)	0.00030	0.00030	0.00031
	(B * Y)	0.00006	0.00006	0.00006
	(B * Y)	-0.00001	-0.00001	-0.00001
	(B * Y)	-0.00063	-0.00062	-0.00062

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR2X8H7H	(A * Y)	-0.00000	-0.00000	0.00000
	(A * Y)	-0.00008	-0.00008	-0.00008
	(A * Y)	0.00001	0.00001	0.00001
	(A * Y)	0.00079	0.00080	0.00080

Passive power(pJ) for B falling (conditional):

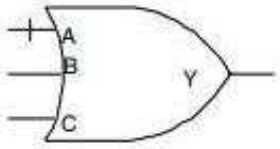
Cell Name	When	Power(pJ)		
		min	avg	max
OR2X8H7H	(A * Y)	0.00000	0.00000	0.00000
	(A * Y)	0.00009	0.00009	0.00009
	(A * Y)	-0.00001	-0.00001	-0.00001
	(A * Y)	-0.00080	-0.00080	-0.00079

OR3X0P5H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OR3 cell provides the logical OR of three inputs (A, B, C). The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	0	0	0
0	x	1	1
x	1	x	1
1	x	x	1

Footprint

Cell Name	Area
OR3X0P5H7H	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
OR3X0P5H7H	0.00085	0.00083	0.00091	0.03043

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OR3X0P5H7H	0.00000	0.01091	0.01701

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR3X0P5H7H	A->Y (RR)	0.05414	0.22346	0.63488
	B->Y (RR)	0.05229	0.21988	0.62744
	C->Y (RR)	0.05083	0.21642	0.61887

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR3X0P5H7H	A->Y (FF)	0.14077	0.28379	0.62621
	B->Y (FF)	0.13582	0.28250	0.63530
	C->Y (FF)	0.12972	0.27155	0.61642

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR3X0P5H7H	A	0.00035	0.00041	0.00045
	A	0.00009	0.00009	0.00009
	A	-0.00005	-0.00005	-0.00003
	A	0.00146	0.00151	0.00156
	B	0.00036	0.00042	0.00046
	B	0.00004	0.00005	0.00005
	B	-0.00005	-0.00005	-0.00005
	B	0.00131	0.00136	0.00141
	C	0.00035	0.00041	0.00047
	C	-0.00000	-0.00000	0.00000
	C	-0.00005	-0.00005	-0.00005
	C	0.00122	0.00128	0.00134

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR3X0P5H7H	A	0.00156	0.00161	0.00166
	A	-0.00009	-0.00009	-0.00009
	A	0.00005	0.00005	0.00005
	A	0.00040	0.00045	0.00051
	B	0.00141	0.00146	0.00151
	B	-0.00005	-0.00005	-0.00004
	B	0.00005	0.00005	0.00005
	B	0.00044	0.00049	0.00054
	C	0.00128	0.00133	0.00139
	C	0.00000	0.00000	0.00000
	C	0.00005	0.00005	0.00005
	C	0.00041	0.00046	0.00052

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X0P5H7H	(B * C * Y)	-0.00010	-0.00009	-0.00007
	(B * C * Y)	-0.00002	-0.00002	-0.00002
	(B * C * Y)	0.00000	0.00000	0.00000
	(B * C * Y)	0.00030	0.00030	0.00030
	(B * !C * Y)	-0.00010	-0.00009	-0.00008
	(B * !C * Y)	-0.00002	-0.00002	-0.00002
	(B * !C * Y)	0.00000	0.00000	0.00000
	(B * !C * Y)	0.00030	0.00030	0.00030
	(!B * C * Y)	-0.00009	-0.00008	-0.00008
	(!B * C * Y)	-0.00002	-0.00002	-0.00002
	(!B * C * Y)	0.00000	0.00000	0.00000
	(!B * C * Y)	0.00030	0.00030	0.00030

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X0P5H7H	(B * C * Y)	0.00009	0.00010	0.00010
	(B * C * Y)	0.00002	0.00002	0.00002
	(B * C * Y)	-0.00000	-0.00000	-0.00000
	(B * C * Y)	-0.00030	-0.00030	-0.00030
	(B * !C * Y)	0.00010	0.00010	0.00010
	(B * !C * Y)	0.00002	0.00002	0.00002
	(B * !C * Y)	-0.00000	-0.00000	-0.00000
	(B * !C * Y)	-0.00030	-0.00030	-0.00030
	(!B * C * Y)	0.00009	0.00009	0.00009
	(!B * C * Y)	0.00002	0.00002	0.00002
	(!B * C * Y)	-0.00000	-0.00000	-0.00000
	(!B * C * Y)	-0.00030	-0.00030	-0.00030

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X0P5H7H	(A * C * Y)	-0.00000	-0.00000	-0.00000
	(A * C * Y)	-0.00006	-0.00006	-0.00005
	(A * C * Y)	0.00000	0.00000	0.00000
	(A * C * Y)	0.00025	0.00026	0.00026
	(A * !C * Y)	-0.00000	-0.00000	-0.00000
	(A * !C * Y)	-0.00005	-0.00005	-0.00004
	(A * !C * Y)	0.00000	0.00000	0.00000
	(A * !C * Y)	0.00025	0.00025	0.00025
	(!A * C * Y)	-0.00009	-0.00008	-0.00007
	(!A * C * Y)	-0.00002	-0.00002	-0.00002
	(!A * C * Y)	0.00000	0.00000	0.00000
	(!A * C * Y)	0.00025	0.00025	0.00026

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X0P5H7H	(A * C * Y)	0.00000	0.00000	0.00000
	(A * C * Y)	0.00005	0.00006	0.00006
	(A * C * Y)	-0.00000	-0.00000	-0.00000
	(A * C * Y)	-0.00025	-0.00025	-0.00025
	(A * !C * Y)	0.00000	0.00000	0.00000
	(A * !C * Y)	0.00005	0.00005	0.00005
	(A * !C * Y)	-0.00000	-0.00000	-0.00000
	(A * !C * Y)	-0.00025	-0.00025	-0.00025
	(!A * C * Y)	0.00009	0.00009	0.00009
	(!A * C * Y)	0.00002	0.00002	0.00002
	(!A * C * Y)	-0.00000	-0.00000	-0.00000
	(!A * C * Y)	-0.00025	-0.00025	-0.00025

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X0P5H7H	(B * Y)	-0.00000	-0.00000	0.00000
	(B * Y)	-0.00003	-0.00003	-0.00003
	(B * Y)	0.00000	0.00000	0.00000
	(B * Y)	0.00034	0.00034	0.00034
	(A * !B * Y)	-0.00000	-0.00000	0.00000
	(A * !B * Y)	-0.00003	-0.00003	-0.00003
	(A * !B * Y)	0.00000	0.00000	0.00000
	(A * !B * Y)	0.00034	0.00034	0.00034

Passive power(pJ) for C falling (conditional):

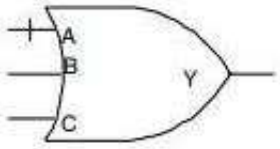
Cell Name	When	Power(pJ)		
		min	avg	max
OR3X0P5H7H	(B * Y)	0.00000	0.00000	0.00000
	(B * Y)	0.00003	0.00003	0.00003
	(B * Y)	-0.00000	-0.00000	-0.00000
	(B * Y)	-0.00034	-0.00034	-0.00034
	(A * !B * Y)	0.00000	0.00000	0.00000
	(A * !B * Y)	0.00003	0.00003	0.00003
	(A * !B * Y)	-0.00000	-0.00000	-0.00000
	(A * !B * Y)	-0.00034	-0.00034	-0.00033

OR3X0P7H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OR3 cell provides the logical OR of three inputs (A, B, C). The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	0	0	0
0	x	1	1
x	1	x	1
1	x	x	1

Footprint

Cell Name	Area
OR3X0P7H7H	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
OR3X0P7H7H	0.00088	0.00082	0.00096	0.03458

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OR3X0P7H7H	0.00000	0.01267	0.01652

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR3X0P7H7H	A->Y (RR)	0.05494	0.22568	0.64085
	B->Y (RR)	0.05267	0.22168	0.63231
	C->Y (RR)	0.05177	0.21888	0.62432

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR3X0P7H7H	A->Y (FF)	0.14686	0.29267	0.64044
	B->Y (FF)	0.14011	0.29012	0.64889
	C->Y (FF)	0.13663	0.28121	0.63185

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR3X0P7H7H	A	0.00041	0.00047	0.00053
	A	0.00008	0.00008	0.00008
	A	-0.00005	-0.00005	-0.00004
	A	0.00154	0.00160	0.00165
	B	0.00042	0.00048	0.00053
	B	0.00004	0.00004	0.00004
	B	-0.00005	-0.00005	-0.00005
	B	0.00138	0.00144	0.00149
	C	0.00040	0.00047	0.00053
	C	-0.00000	-0.00000	-0.00000
	C	-0.00005	-0.00005	-0.00004
	C	0.00130	0.00137	0.00144

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR3X0P7H7H	A	0.00163	0.00169	0.00176
	A	-0.00008	-0.00008	-0.00008
	A	0.00004	0.00005	0.00005
	A	0.00046	0.00052	0.00058
	B	0.00148	0.00153	0.00159
	B	-0.00004	-0.00004	-0.00004
	B	0.00005	0.00005	0.00005
	B	0.00050	0.00055	0.00061
	C	0.00137	0.00142	0.00149
	C	0.00000	0.00000	0.00000
	C	0.00004	0.00005	0.00005
	C	0.00047	0.00052	0.00059

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X0P7H7H	(B * C * Y)	-0.00009	-0.00008	-0.00007
	(B * C * Y)	-0.00002	-0.00002	-0.00002
	(B * C * Y)	0.00000	0.00000	0.00000
	(B * C * Y)	0.00030	0.00030	0.00031
	(B * !C * Y)	-0.00009	-0.00008	-0.00007
	(B * !C * Y)	-0.00002	-0.00002	-0.00002
	(B * !C * Y)	0.00000	0.00000	0.00000
	(B * !C * Y)	0.00030	0.00030	0.00031
	(!B * C * Y)	-0.00009	-0.00008	-0.00006
	(!B * C * Y)	-0.00002	-0.00002	-0.00001
	(!B * C * Y)	0.00000	0.00000	0.00000
	(!B * C * Y)	0.00030	0.00030	0.00031

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X0P7H7H	(B * C * Y)	0.00009	0.00009	0.00009
	(B * C * Y)	0.00002	0.00002	0.00002
	(B * C * Y)	-0.00000	-0.00000	-0.00000
	(B * C * Y)	-0.00031	-0.00030	-0.00030
	(B * !C * Y)	0.00009	0.00009	0.00009
	(B * !C * Y)	0.00002	0.00002	0.00002
	(B * !C * Y)	-0.00000	-0.00000	-0.00000
	(B * !C * Y)	-0.00030	-0.00030	-0.00030
	(!B * C * Y)	0.00009	0.00009	0.00009
	(!B * C * Y)	0.00001	0.00002	0.00002
	(!B * C * Y)	-0.00000	-0.00000	-0.00000
	(!B * C * Y)	-0.00031	-0.00030	-0.00030

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X0P7H7H	(A * C * Y)	-0.00000	-0.00000	-0.00000
	(A * C * Y)	-0.00006	-0.00006	-0.00006
	(A * C * Y)	0.00000	0.00000	0.00000
	(A * C * Y)	0.00024	0.00024	0.00025
	(A * !C * Y)	-0.00000	-0.00000	-0.00000
	(A * !C * Y)	-0.00005	-0.00005	-0.00005
	(A * !C * Y)	0.00000	0.00000	0.00000
	(A * !C * Y)	0.00024	0.00024	0.00025
	(!A * C * Y)	-0.00010	-0.00009	-0.00007
	(!A * C * Y)	-0.00002	-0.00002	-0.00002
	(!A * C * Y)	0.00000	0.00000	0.00000
	(!A * C * Y)	0.00024	0.00024	0.00025

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X0P7H7H	(A * C * Y)	0.00000	0.00000	0.00000
	(A * C * Y)	0.00006	0.00006	0.00006
	(A * C * Y)	-0.00000	-0.00000	-0.00000
	(A * C * Y)	-0.00024	-0.00024	-0.00024
	(A * !C * Y)	0.00000	0.00000	0.00000
	(A * !C * Y)	0.00005	0.00005	0.00005
	(A * !C * Y)	-0.00000	-0.00000	-0.00000
	(A * !C * Y)	-0.00024	-0.00024	-0.00024
	(!A * C * Y)	0.00010	0.00010	0.00010
	(!A * C * Y)	0.00002	0.00002	0.00002
	(!A * C * Y)	-0.00000	-0.00000	-0.00000
	(!A * C * Y)	-0.00024	-0.00024	-0.00024

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X0P7H7H	(B * Y)	-0.00000	-0.00000	-0.00000
	(B * Y)	-0.00003	-0.00003	-0.00003
	(B * Y)	0.00000	0.00000	0.00000
	(B * Y)	0.00035	0.00036	0.00036
	(A * !B * Y)	-0.00000	-0.00000	0.00000
	(A * !B * Y)	-0.00003	-0.00003	-0.00003
	(A * !B * Y)	0.00000	0.00000	0.00000
	(A * !B * Y)	0.00036	0.00036	0.00036

Passive power(pJ) for C falling (conditional):

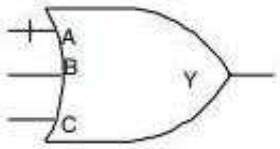
Cell Name	When	Power(pJ)		
		min	avg	max
OR3X0P7H7H	(B * Y)	0.00000	0.00000	0.00000
	(B * Y)	0.00003	0.00003	0.00003
	(B * Y)	-0.00000	-0.00000	-0.00000
	(B * Y)	-0.00036	-0.00035	-0.00035
	(A * !B * Y)	0.00000	0.00000	0.00000
	(A * !B * Y)	0.00003	0.00003	0.00004
	(A * !B * Y)	-0.00000	-0.00000	-0.00000
	(A * !B * Y)	-0.00036	-0.00036	-0.00035

OR3X1H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OR3 cell provides the logical OR of three inputs (A, B, C). The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	0	0	0
0	x	1	1
x	1	x	1
1	x	x	1

Footprint

Cell Name	Area
OR3X1H7H	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
OR3X1H7H	0.00086	0.00083	0.00087	0.04133

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OR3X1H7H	0.00000	0.01648	0.01824

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR3X1H7H	A->Y (RR)	0.05221	0.22323	0.63914
	B->Y (RR)	0.05044	0.21986	0.63125
	C->Y (RR)	0.04862	0.21608	0.62227

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR3X1H7H	A->Y (FF)	0.14362	0.29361	0.64938
	B->Y (FF)	0.13919	0.29286	0.65983
	C->Y (FF)	0.13158	0.28083	0.64060

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR3X1H7H	A	0.00045	0.00051	0.00056
	A	0.00007	0.00008	0.00008
	A	-0.00004	-0.00004	-0.00004
	A	0.00153	0.00159	0.00164
	B	0.00046	0.00052	0.00057
	B	0.00003	0.00003	0.00004
	B	-0.00004	-0.00004	-0.00004
	B	0.00137	0.00144	0.00149
	C	0.00045	0.00052	0.00058
	C	-0.00001	-0.00001	-0.00001
	C	-0.00004	-0.00004	-0.00004
	C	0.00128	0.00135	0.00140

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR3X1H7H	A	0.00161	0.00167	0.00173
	A	-0.00008	-0.00008	-0.00007
	A	0.00004	0.00004	0.00004
	A	0.00048	0.00054	0.00060
	B	0.00147	0.00153	0.00159
	B	-0.00004	-0.00003	-0.00003
	B	0.00004	0.00004	0.00004
	B	0.00053	0.00058	0.00065
	C	0.00133	0.00139	0.00145
	C	0.00001	0.00001	0.00001
	C	0.00004	0.00004	0.00004
	C	0.00051	0.00056	0.00063

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X1H7H	(B * C * Y)	-0.00010	-0.00009	-0.00008
	(B * C * Y)	-0.00002	-0.00002	-0.00002
	(B * C * Y)	0.00000	0.00000	0.00000
	(B * C * Y)	0.00031	0.00031	0.00031
	(B * !C * Y)	-0.00010	-0.00009	-0.00008
	(B * !C * Y)	-0.00003	-0.00002	-0.00002
	(B * !C * Y)	0.00000	0.00000	0.00000
	(B * !C * Y)	0.00031	0.00031	0.00031
	(!B * C * Y)	-0.00009	-0.00008	-0.00007
	(!B * C * Y)	-0.00002	-0.00002	-0.00002
	(!B * C * Y)	0.00000	0.00000	0.00000
	(!B * C * Y)	0.00031	0.00031	0.00031

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X1H7H	(B * C * Y)	0.00009	0.00010	0.00010
	(B * C * Y)	0.00002	0.00002	0.00002
	(B * C * Y)	-0.00000	-0.00000	-0.00000
	(B * C * Y)	-0.00031	-0.00031	-0.00031
	(B * !C * Y)	0.00009	0.00010	0.00010
	(B * !C * Y)	0.00002	0.00002	0.00003
	(B * !C * Y)	-0.00000	-0.00000	-0.00000
	(B * !C * Y)	-0.00031	-0.00031	-0.00031
	(!B * C * Y)	0.00009	0.00009	0.00009
	(!B * C * Y)	0.00002	0.00002	0.00002
	(!B * C * Y)	-0.00000	-0.00000	-0.00000
	(!B * C * Y)	-0.00031	-0.00031	-0.00031

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X1H7H	(A * C * Y)	-0.00000	-0.00000	0.00000
	(A * C * Y)	-0.00005	-0.00005	-0.00005
	(A * C * Y)	0.00000	0.00000	0.00000
	(A * C * Y)	0.00026	0.00026	0.00026
	(A * !C * Y)	-0.00000	-0.00000	0.00000
	(A * !C * Y)	-0.00005	-0.00005	-0.00004
	(A * !C * Y)	0.00000	0.00000	0.00000
	(A * !C * Y)	0.00026	0.00026	0.00026
	(!A * C * Y)	-0.00009	-0.00008	-0.00007
	(!A * C * Y)	-0.00002	-0.00002	-0.00002
	(!A * C * Y)	0.00000	0.00000	0.00000
	(!A * C * Y)	0.00026	0.00026	0.00027

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X1H7H	(A * C * Y)	0.00000	0.00000	0.00000
	(A * C * Y)	0.00005	0.00005	0.00005
	(A * C * Y)	-0.00000	-0.00000	-0.00000
	(A * C * Y)	-0.00026	-0.00026	-0.00026
	(A * !C * Y)	0.00000	0.00000	0.00000
	(A * !C * Y)	0.00005	0.00005	0.00005
	(A * !C * Y)	-0.00000	-0.00000	-0.00000
	(A * !C * Y)	-0.00026	-0.00026	-0.00026
	(!A * C * Y)	0.00009	0.00009	0.00009
	(!A * C * Y)	0.00002	0.00002	0.00002
	(!A * C * Y)	-0.00000	-0.00000	-0.00000
	(!A * C * Y)	-0.00026	-0.00026	-0.00025

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X1H7H	(B * Y)	-0.00000	-0.00000	-0.00000
	(B * Y)	-0.00003	-0.00003	-0.00003
	(B * Y)	0.00000	0.00000	0.00000
	(B * Y)	0.00033	0.00033	0.00033
	(A * !B * Y)	-0.00000	-0.00000	0.00000
	(A * !B * Y)	-0.00003	-0.00003	-0.00003
	(A * !B * Y)	0.00000	0.00000	0.00000
	(A * !B * Y)	0.00033	0.00033	0.00033

Passive power(pJ) for C falling (conditional):

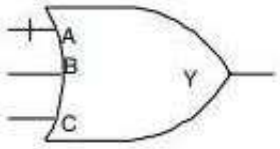
Cell Name	When	Power(pJ)		
		min	avg	max
OR3X1H7H	(B * Y)	0.00000	0.00000	0.00000
	(B * Y)	0.00003	0.00003	0.00003
	(B * Y)	-0.00000	-0.00000	-0.00000
	(B * Y)	-0.00033	-0.00033	-0.00033
	(A * !B * Y)	0.00000	0.00000	0.00000
	(A * !B * Y)	0.00003	0.00003	0.00003
	(A * !B * Y)	-0.00000	-0.00000	-0.00000
	(A * !B * Y)	-0.00033	-0.00033	-0.00033

OR3X1P4H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OR3 cell provides the logical OR of three inputs (A, B, C). The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	0	0	0
0	x	1	1
x	1	x	1
1	x	x	1

Footprint

Cell Name	Area
OR3X1P4H7H	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
OR3X1P4H7H	0.00087	0.00083	0.00087	0.04712

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OR3X1P4H7H	0.00000	0.02124	0.02366

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR3X1P4H7H	A->Y (RR)	0.05134	0.22334	0.64186
	B->Y (RR)	0.04931	0.21967	0.63340
	C->Y (RR)	0.04755	0.21600	0.62436

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR3X1P4H7H	A->Y (FF)	0.14513	0.29762	0.65812
	B->Y (FF)	0.13954	0.29610	0.66772
	C->Y (FF)	0.13207	0.28416	0.64884

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR3X1P4H7H	A	0.00046	0.00053	0.00058
	A	0.00007	0.00007	0.00007
	A	-0.00004	-0.00004	-0.00004
	A	0.00155	0.00161	0.00167
	B	0.00047	0.00054	0.00059
	B	0.00003	0.00003	0.00004
	B	-0.00004	-0.00004	-0.00004
	B	0.00139	0.00145	0.00151
	C	0.00047	0.00054	0.00060
	C	-0.00002	-0.00002	-0.00001
	C	-0.00004	-0.00004	-0.00003
	C	0.00129	0.00136	0.00142

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR3X1P4H7H	A	0.00164	0.00170	0.00177
	A	-0.00007	-0.00007	-0.00007
	A	0.00004	0.00004	0.00004
	A	0.00050	0.00057	0.00064
	B	0.00149	0.00155	0.00161
	B	-0.00004	-0.00003	-0.00003
	B	0.00004	0.00004	0.00004
	B	0.00055	0.00061	0.00068
	C	0.00135	0.00141	0.00148
	C	0.00001	0.00002	0.00002
	C	0.00004	0.00004	0.00004
	C	0.00053	0.00059	0.00066

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X1P4H7H	(B * C * Y)	-0.00009	-0.00009	-0.00007
	(B * C * Y)	-0.00002	-0.00002	-0.00002
	(B * C * Y)	0.00000	0.00000	0.00000
	(B * C * Y)	0.00031	0.00032	0.00032
	(B * !C * Y)	-0.00009	-0.00009	-0.00007
	(B * !C * Y)	-0.00003	-0.00002	-0.00002
	(B * !C * Y)	0.00000	0.00000	0.00000
	(B * !C * Y)	0.00031	0.00031	0.00032
	(!B * C * Y)	-0.00009	-0.00008	-0.00007
	(!B * C * Y)	-0.00002	-0.00002	-0.00001
	(!B * C * Y)	0.00000	0.00000	0.00000
	(!B * C * Y)	0.00031	0.00031	0.00032

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X1P4H7H	(B * C * Y)	0.00009	0.00009	0.00009
	(B * C * Y)	0.00002	0.00002	0.00002
	(B * C * Y)	-0.00000	-0.00000	-0.00000
	(B * C * Y)	-0.00032	-0.00031	-0.00031
	(B * !C * Y)	0.00009	0.00009	0.00009
	(B * !C * Y)	0.00002	0.00002	0.00003
	(B * !C * Y)	-0.00000	-0.00000	-0.00000
	(B * !C * Y)	-0.00032	-0.00031	-0.00031
	(!B * C * Y)	0.00009	0.00009	0.00009
	(!B * C * Y)	0.00001	0.00002	0.00002
	(!B * C * Y)	-0.00000	-0.00000	-0.00000
	(!B * C * Y)	-0.00032	-0.00031	-0.00031

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X1P4H7H	(A * C * Y)	-0.00000	-0.00000	-0.00000
	(A * C * Y)	-0.00006	-0.00006	-0.00005
	(A * C * Y)	0.00000	0.00000	0.00000
	(A * C * Y)	0.00025	0.00026	0.00026
	(A * !C * Y)	-0.00000	-0.00000	0.00000
	(A * !C * Y)	-0.00005	-0.00005	-0.00005
	(A * !C * Y)	0.00000	0.00000	0.00000
	(A * !C * Y)	0.00025	0.00026	0.00026
	(!A * C * Y)	-0.00009	-0.00008	-0.00007
	(!A * C * Y)	-0.00002	-0.00002	-0.00002
	(!A * C * Y)	0.00000	0.00000	0.00000
	(!A * C * Y)	0.00025	0.00026	0.00026

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X1P4H7H	(A * C * Y)	0.00000	0.00000	0.00000
	(A * C * Y)	0.00005	0.00006	0.00006
	(A * C * Y)	-0.00000	-0.00000	-0.00000
	(A * C * Y)	-0.00026	-0.00025	-0.00025
	(A * !C * Y)	0.00000	0.00000	0.00000
	(A * !C * Y)	0.00005	0.00005	0.00005
	(A * !C * Y)	-0.00000	-0.00000	-0.00000
	(A * !C * Y)	-0.00026	-0.00025	-0.00025
	(!A * C * Y)	0.00009	0.00009	0.00009
	(!A * C * Y)	0.00002	0.00002	0.00002
	(!A * C * Y)	-0.00000	-0.00000	-0.00000
	(!A * C * Y)	-0.00025	-0.00025	-0.00025

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X1P4H7H	(B * Y)	-0.00000	-0.00000	0.00000
	(B * Y)	-0.00003	-0.00003	-0.00003
	(B * Y)	0.00000	0.00000	0.00000
	(B * Y)	0.00033	0.00033	0.00033
	(A * !B * Y)	-0.00000	-0.00000	0.00000
	(A * !B * Y)	-0.00003	-0.00003	-0.00003
	(A * !B * Y)	0.00000	0.00000	0.00000
	(A * !B * Y)	0.00032	0.00033	0.00033

Passive power(pJ) for C falling (conditional):

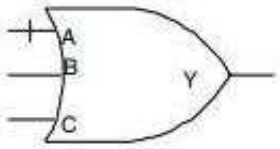
Cell Name	When	Power(pJ)		
		min	avg	max
OR3X1P4H7H	(B * Y)	0.00000	0.00000	0.00000
	(B * Y)	0.00003	0.00003	0.00003
	(B * Y)	-0.00000	-0.00000	-0.00000
	(B * Y)	-0.00033	-0.00033	-0.00032
	(A * !B * Y)	0.00000	0.00000	0.00000
	(A * !B * Y)	0.00003	0.00003	0.00003
	(A * !B * Y)	-0.00000	-0.00000	-0.00000
	(A * !B * Y)	-0.00033	-0.00033	-0.00032

OR3X2H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OR3 cell provides the logical OR of three inputs (A, B, C). The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	0	0	0
0	x	1	1
x	1	x	1
1	x	x	1

Footprint

Cell Name	Area
OR3X2H7H	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
OR3X2H7H	0.00087	0.00081	0.00089	0.06065

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OR3X2H7H	0.00000	0.01480	0.02429

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR3X2H7H	A->Y (RR)	0.05876	0.23555	0.66482
	B->Y (RR)	0.05652	0.23194	0.65763
	C->Y (RR)	0.05516	0.22906	0.65015

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR3X2H7H	A->Y (FF)	0.16890	0.32418	0.68477
	B->Y (FF)	0.16277	0.32257	0.69642
	C->Y (FF)	0.15756	0.31263	0.68112

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR3X2H7H	A	0.00079	0.00089	0.00098
	A	0.00007	0.00007	0.00007
	A	-0.00003	-0.00003	-0.00003
	A	0.00185	0.00194	0.00203
	B	0.00081	0.00090	0.00099
	B	0.00002	0.00003	0.00003
	B	-0.00003	-0.00003	-0.00002
	B	0.00169	0.00178	0.00187
	C	0.00080	0.00090	0.00100
	C	-0.00002	-0.00002	-0.00001
	C	-0.00003	-0.00003	-0.00003
	C	0.00160	0.00171	0.00180

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR3X2H7H	A	0.00202	0.00210	0.00219
	A	-0.00007	-0.00007	-0.00007
	A	0.00003	0.00003	0.00003
	A	0.00092	0.00099	0.00109
	B	0.00186	0.00193	0.00202
	B	-0.00003	-0.00003	-0.00002
	B	0.00002	0.00003	0.00003
	B	0.00096	0.00103	0.00112
	C	0.00173	0.00181	0.00191
	C	0.00001	0.00002	0.00002
	C	0.00003	0.00003	0.00003
	C	0.00092	0.00100	0.00110

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X2H7H	(B * C * Y)	-0.00010	-0.00009	-0.00008
	(B * C * Y)	-0.00003	-0.00002	-0.00002
	(B * C * Y)	0.00000	0.00000	0.00000
	(B * C * Y)	0.00029	0.00030	0.00030
	(B * !C * Y)	-0.00010	-0.00009	-0.00008
	(B * !C * Y)	-0.00002	-0.00002	-0.00001
	(B * !C * Y)	0.00000	0.00000	0.00000
	(B * !C * Y)	0.00029	0.00030	0.00030
	(!B * C * Y)	-0.00010	-0.00009	-0.00007
	(!B * C * Y)	-0.00003	-0.00002	-0.00001
	(!B * C * Y)	0.00000	0.00000	0.00000
	(!B * C * Y)	0.00029	0.00030	0.00030

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X2H7H	(B * C * Y)	0.00009	0.00010	0.00010
	(B * C * Y)	0.00002	0.00002	0.00003
	(B * C * Y)	-0.00000	-0.00000	-0.00000
	(B * C * Y)	-0.00030	-0.00029	-0.00029
	(B * !C * Y)	0.00010	0.00010	0.00011
	(B * !C * Y)	0.00001	0.00002	0.00002
	(B * !C * Y)	-0.00000	-0.00000	-0.00000
	(B * !C * Y)	-0.00030	-0.00030	-0.00029
	(!B * C * Y)	0.00009	0.00010	0.00010
	(!B * C * Y)	0.00001	0.00002	0.00003
	(!B * C * Y)	-0.00000	-0.00000	-0.00000
	(!B * C * Y)	-0.00030	-0.00030	-0.00029

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X2H7H	(A * C * Y)	-0.00000	-0.00000	0.00000
	(A * C * Y)	-0.00006	-0.00006	-0.00005
	(A * C * Y)	0.00000	0.00000	0.00000
	(A * C * Y)	0.00024	0.00024	0.00024
	(A * !C * Y)	-0.00000	-0.00000	0.00000
	(A * !C * Y)	-0.00005	-0.00005	-0.00004
	(A * !C * Y)	0.00000	0.00000	0.00000
	(A * !C * Y)	0.00024	0.00024	0.00024
	(!A * C * Y)	-0.00009	-0.00008	-0.00007
	(!A * C * Y)	-0.00002	-0.00002	-0.00002
	(!A * C * Y)	0.00000	0.00000	0.00000
	(!A * C * Y)	0.00024	0.00024	0.00025

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X2H7H	(A * C * Y)	0.00000	0.00000	0.00000
	(A * C * Y)	0.00005	0.00006	0.00006
	(A * C * Y)	-0.00000	-0.00000	-0.00000
	(A * C * Y)	-0.00024	-0.00024	-0.00024
	(A * !C * Y)	0.00000	0.00000	0.00000
	(A * !C * Y)	0.00005	0.00005	0.00005
	(A * !C * Y)	-0.00000	-0.00000	-0.00000
	(A * !C * Y)	-0.00024	-0.00024	-0.00024
	(!A * C * Y)	0.00009	0.00010	0.00010
	(!A * C * Y)	0.00002	0.00002	0.00002
	(!A * C * Y)	-0.00000	-0.00000	-0.00000
	(!A * C * Y)	-0.00024	-0.00024	-0.00024

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X2H7H	(B * Y)	-0.00000	-0.00000	-0.00000
	(B * Y)	-0.00003	-0.00003	-0.00003
	(B * Y)	0.00000	0.00000	0.00000
	(B * Y)	0.00034	0.00034	0.00034
	(A * !B * Y)	-0.00000	-0.00000	0.00000
	(A * !B * Y)	-0.00003	-0.00003	-0.00003
	(A * !B * Y)	0.00000	0.00000	0.00000
	(A * !B * Y)	0.00033	0.00034	0.00034

Passive power(pJ) for C falling (conditional):

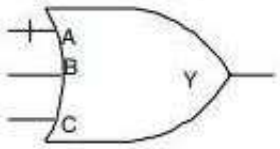
Cell Name	When	Power(pJ)		
		min	avg	max
OR3X2H7H	(B * Y)	0.00000	0.00000	0.00000
	(B * Y)	0.00003	0.00003	0.00003
	(B * Y)	-0.00000	-0.00000	-0.00000
	(B * Y)	-0.00034	-0.00034	-0.00033
	(A * !B * Y)	0.00000	0.00000	0.00000
	(A * !B * Y)	0.00003	0.00003	0.00004
	(A * !B * Y)	-0.00000	-0.00000	-0.00000
	(A * !B * Y)	-0.00034	-0.00034	-0.00033

OR3X3H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OR3 cell provides the logical OR of three inputs (A, B, C). The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	0	0	0
0	x	1	1
x	1	x	1
1	x	x	1

Footprint

Cell Name	Area
OR3X3H7H	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
OR3X3H7H	0.00098	0.00095	0.00100	0.08652

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OR3X3H7H	0.00000	0.03300	0.04136

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR3X3H7H	A->Y (RR)	0.05212	0.22982	0.66160
	B->Y (RR)	0.05016	0.22631	0.65313
	C->Y (RR)	0.04823	0.22260	0.64546

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR3X3H7H	A->Y (FF)	0.14757	0.30555	0.67211
	B->Y (FF)	0.14263	0.30463	0.68329
	C->Y (FF)	0.13489	0.29235	0.66364

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR3X3H7H	A	0.00095	0.00107	0.00117
	A	0.00009	0.00009	0.00009
	A	-0.00004	-0.00003	-0.00003
	A	0.00219	0.00231	0.00242
	B	0.00096	0.00108	0.00118
	B	0.00003	0.00003	0.00003
	B	-0.00003	-0.00003	-0.00003
	B	0.00200	0.00212	0.00222
	C	0.00096	0.00108	0.00119
	C	-0.00004	-0.00003	-0.00003
	C	-0.00004	-0.00003	-0.00003
	C	0.00187	0.00199	0.00210

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR3X3H7H	A	0.00237	0.00247	0.00258
	A	-0.00009	-0.00009	-0.00009
	A	0.00003	0.00003	0.00004
	A	0.00105	0.00115	0.00127
	B	0.00217	0.00227	0.00238
	B	-0.00003	-0.00003	-0.00003
	B	0.00003	0.00003	0.00004
	B	0.00110	0.00119	0.00130
	C	0.00198	0.00208	0.00219
	C	0.00003	0.00003	0.00004
	C	0.00003	0.00003	0.00004
	C	0.00106	0.00116	0.00128

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X3H7H	(B * C * Y)	-0.00012	-0.00011	-0.00009
	(B * C * Y)	-0.00003	-0.00003	-0.00002
	(B * C * Y)	0.00000	0.00001	0.00001
	(B * C * Y)	0.00033	0.00033	0.00034
	(B * !C * Y)	-0.00012	-0.00011	-0.00009
	(B * !C * Y)	-0.00003	-0.00003	-0.00002
	(B * !C * Y)	0.00000	0.00001	0.00001
	(B * !C * Y)	0.00033	0.00033	0.00033
	(!B * C * Y)	-0.00011	-0.00010	-0.00008
	(!B * C * Y)	-0.00003	-0.00003	-0.00003
	(!B * C * Y)	0.00000	0.00001	0.00001
	(!B * C * Y)	0.00033	0.00033	0.00033

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X3H7H	(B * C * Y)	0.00012	0.00012	0.00012
	(B * C * Y)	0.00002	0.00003	0.00003
	(B * C * Y)	-0.00001	-0.00001	-0.00000
	(B * C * Y)	-0.00033	-0.00033	-0.00033
	(B * !C * Y)	0.00012	0.00012	0.00012
	(B * !C * Y)	0.00002	0.00003	0.00003
	(B * !C * Y)	-0.00001	-0.00001	-0.00000
	(B * !C * Y)	-0.00033	-0.00033	-0.00033
	(!B * C * Y)	0.00011	0.00011	0.00011
	(!B * C * Y)	0.00003	0.00003	0.00003
	(!B * C * Y)	-0.00001	-0.00001	-0.00000
	(!B * C * Y)	-0.00033	-0.00033	-0.00033

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X3H7H	(A * C * Y)	-0.00000	-0.00000	0.00000
	(A * C * Y)	-0.00008	-0.00007	-0.00007
	(A * C * Y)	0.00000	0.00001	0.00001
	(A * C * Y)	0.00027	0.00028	0.00028
	(A * !C * Y)	-0.00000	-0.00000	-0.00000
	(A * !C * Y)	-0.00006	-0.00006	-0.00006
	(A * !C * Y)	0.00000	0.00001	0.00001
	(A * !C * Y)	0.00027	0.00028	0.00028
	(!A * C * Y)	-0.00012	-0.00011	-0.00009
	(!A * C * Y)	-0.00003	-0.00003	-0.00002
	(!A * C * Y)	0.00000	0.00001	0.00001
	(!A * C * Y)	0.00027	0.00028	0.00028

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X3H7H	(A * C * Y)	0.00000	0.00000	0.00000
	(A * C * Y)	0.00007	0.00007	0.00008
	(A * C * Y)	-0.00001	-0.00001	-0.00000
	(A * C * Y)	-0.00028	-0.00027	-0.00027
	(A * !C * Y)	0.00000	0.00000	0.00000
	(A * !C * Y)	0.00006	0.00006	0.00006
	(A * !C * Y)	-0.00001	-0.00001	-0.00000
	(A * !C * Y)	-0.00027	-0.00027	-0.00027
	(!A * C * Y)	0.00012	0.00012	0.00012
	(!A * C * Y)	0.00002	0.00003	0.00003
	(!A * C * Y)	-0.00001	-0.00001	-0.00000
	(!A * C * Y)	-0.00027	-0.00027	-0.00027

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X3H7H	(B * Y)	-0.00000	-0.00000	0.00000
	(B * Y)	-0.00004	-0.00004	-0.00004
	(B * Y)	0.00000	0.00001	0.00001
	(B * Y)	0.00036	0.00036	0.00037
	(A * !B * Y)	-0.00000	-0.00000	0.00000
	(A * !B * Y)	-0.00004	-0.00004	-0.00004
	(A * !B * Y)	0.00000	0.00001	0.00001
	(A * !B * Y)	0.00036	0.00036	0.00037

Passive power(pJ) for C falling (conditional):

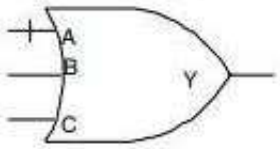
Cell Name	When	Power(pJ)		
		min	avg	max
OR3X3H7H	(B * Y)	0.00000	0.00000	0.00000
	(B * Y)	0.00004	0.00004	0.00004
	(B * Y)	-0.00001	-0.00001	-0.00000
	(B * Y)	-0.00037	-0.00036	-0.00036
	(A * !B * Y)	0.00000	0.00000	0.00000
	(A * !B * Y)	0.00004	0.00004	0.00005
	(A * !B * Y)	-0.00001	-0.00001	-0.00000
	(A * !B * Y)	-0.00037	-0.00036	-0.00036

OR3X4H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OR3 cell provides the logical OR of three inputs (A, B, C). The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	0	0	0
0	x	1	1
x	1	x	1
1	x	x	1

Footprint

Cell Name	Area
OR3X4H7H	3.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
OR3X4H7H	0.00103	0.00101	0.00106	0.11613

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OR3X4H7H	0.00000	0.04155	0.06593

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR3X4H7H	A->Y (RR)	0.05566	0.23658	0.67562
	B->Y (RR)	0.05374	0.23337	0.66877
	C->Y (RR)	0.05188	0.22987	0.66079

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR3X4H7H	A->Y (FF)	0.16296	0.32472	0.69620
	B->Y (FF)	0.15850	0.32462	0.71000
	C->Y (FF)	0.15049	0.31237	0.69155

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR3X4H7H	A	0.00147	0.00162	0.00177
	A	0.00009	0.00009	0.00009
	A	-0.00003	-0.00003	-0.00003
	A	0.00278	0.00294	0.00308
	B	0.00148	0.00163	0.00178
	B	0.00002	0.00002	0.00002
	B	-0.00003	-0.00003	-0.00003
	B	0.00258	0.00274	0.00288
	C	0.00148	0.00164	0.00179
	C	-0.00005	-0.00005	-0.00005
	C	-0.00003	-0.00003	-0.00003
	C	0.00242	0.00259	0.00273

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR3X4H7H	A	0.00300	0.00313	0.00327
	A	-0.00009	-0.00009	-0.00009
	A	0.00003	0.00003	0.00003
	A	0.00160	0.00172	0.00188
	B	0.00278	0.00291	0.00305
	B	-0.00002	-0.00002	-0.00002
	B	0.00003	0.00003	0.00003
	B	0.00165	0.00176	0.00191
	C	0.00256	0.00268	0.00284
	C	0.00005	0.00005	0.00005
	C	0.00003	0.00003	0.00003
	C	0.00161	0.00173	0.00189

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X4H7H	(B * C * Y)	-0.00013	-0.00012	-0.00011
	(B * C * Y)	-0.00003	-0.00003	-0.00003
	(B * C * Y)	0.00000	0.00001	0.00001
	(B * C * Y)	0.00035	0.00035	0.00035
	(B * !C * Y)	-0.00013	-0.00012	-0.00011
	(B * !C * Y)	-0.00004	-0.00003	-0.00003
	(B * !C * Y)	0.00001	0.00001	0.00001
	(B * !C * Y)	0.00034	0.00035	0.00035
	(!B * C * Y)	-0.00013	-0.00012	-0.00010
	(!B * C * Y)	-0.00003	-0.00003	-0.00003
	(!B * C * Y)	0.00001	0.00001	0.00001
	(!B * C * Y)	0.00034	0.00034	0.00035

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X4H7H	(B * C * Y)	0.00013	0.00013	0.00013
	(B * C * Y)	0.00003	0.00003	0.00003
	(B * C * Y)	-0.00001	-0.00001	-0.00000
	(B * C * Y)	-0.00035	-0.00035	-0.00034
	(B * !C * Y)	0.00012	0.00013	0.00014
	(B * !C * Y)	0.00003	0.00003	0.00004
	(B * !C * Y)	-0.00001	-0.00001	-0.00001
	(B * !C * Y)	-0.00035	-0.00034	-0.00034
	(!B * C * Y)	0.00012	0.00013	0.00013
	(!B * C * Y)	0.00003	0.00003	0.00003
	(!B * C * Y)	-0.00001	-0.00001	-0.00001
	(!B * C * Y)	-0.00035	-0.00034	-0.00034

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X4H7H	(A * C * Y)	-0.00000	-0.00000	0.00000
	(A * C * Y)	-0.00008	-0.00008	-0.00008
	(A * C * Y)	0.00001	0.00001	0.00001
	(A * C * Y)	0.00029	0.00030	0.00030
	(A * !C * Y)	-0.00000	-0.00000	0.00000
	(A * !C * Y)	-0.00007	-0.00007	-0.00007
	(A * !C * Y)	0.00001	0.00001	0.00001
	(A * !C * Y)	0.00029	0.00030	0.00030
	(!A * C * Y)	-0.00014	-0.00012	-0.00010
	(!A * C * Y)	-0.00003	-0.00003	-0.00003
	(!A * C * Y)	0.00001	0.00001	0.00001
	(!A * C * Y)	0.00029	0.00029	0.00030

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X4H7H	(A * C * Y)	0.00000	0.00000	0.00000
	(A * C * Y)	0.00008	0.00008	0.00008
	(A * C * Y)	-0.00001	-0.00001	-0.00001
	(A * C * Y)	-0.00029	-0.00029	-0.00029
	(A * !C * Y)	0.00000	0.00000	0.00000
	(A * !C * Y)	0.00007	0.00007	0.00007
	(A * !C * Y)	-0.00001	-0.00001	-0.00001
	(A * !C * Y)	-0.00029	-0.00029	-0.00029
	(!A * C * Y)	0.00014	0.00014	0.00014
	(!A * C * Y)	0.00003	0.00003	0.00003
	(!A * C * Y)	-0.00001	-0.00001	-0.00001
	(!A * C * Y)	-0.00029	-0.00029	-0.00029

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X4H7H	(B * Y)	-0.00000	-0.00000	0.00000
	(B * Y)	-0.00005	-0.00005	-0.00004
	(B * Y)	0.00000	0.00001	0.00001
	(B * Y)	0.00038	0.00039	0.00039
	(A * !B * Y)	-0.00000	-0.00000	0.00000
	(A * !B * Y)	-0.00004	-0.00004	-0.00003
	(A * !B * Y)	0.00001	0.00001	0.00001
	(A * !B * Y)	0.00038	0.00039	0.00039

Passive power(pJ) for C falling (conditional):

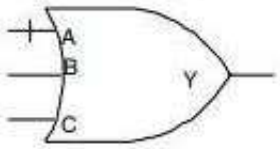
Cell Name	When	Power(pJ)		
		min	avg	max
OR3X4H7H	(B * Y)	0.00000	0.00000	0.00000
	(B * Y)	0.00005	0.00005	0.00005
	(B * Y)	-0.00001	-0.00001	-0.00000
	(B * Y)	-0.00039	-0.00039	-0.00038
	(A * !B * Y)	0.00000	0.00000	0.00001
	(A * !B * Y)	0.00003	0.00004	0.00005
	(A * !B * Y)	-0.00001	-0.00001	-0.00001
	(A * !B * Y)	-0.00039	-0.00039	-0.00038

OR3X6H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OR3 cell provides the logical OR of three inputs (A, B, C). The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	0	0	0
0	x	1	1
x	1	x	1
1	x	x	1

Footprint

Cell Name	Area
OR3X6H7H	3.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
OR3X6H7H	0.00119	0.00112	0.00125	0.16400

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OR3X6H7H	0.00000	0.08554	0.09364

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR3X6H7H	A->Y (RR)	0.05373	0.23645	0.67924
	B->Y (RR)	0.05149	0.23273	0.67188
	C->Y (RR)	0.04983	0.22950	0.66416

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR3X6H7H	A->Y (FF)	0.16168	0.32933	0.70978
	B->Y (FF)	0.15573	0.32775	0.72252
	C->Y (FF)	0.14908	0.31637	0.70482

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR3X6H7H	A	0.00172	0.00190	0.00209
	A	0.00008	0.00008	0.00008
	A	-0.00001	-0.00001	-0.00001
	A	0.00319	0.00338	0.00356
	B	0.00174	0.00193	0.00210
	B	0.00000	0.00000	0.00000
	B	-0.00001	-0.00001	-0.00001
	B	0.00295	0.00314	0.00331
	C	0.00172	0.00193	0.00211
	C	-0.00009	-0.00009	-0.00008
	C	-0.00001	-0.00001	-0.00001
	C	0.00276	0.00297	0.00315

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR3X6H7H	A	0.00349	0.00365	0.00383
	A	-0.00008	-0.00008	-0.00008
	A	0.00001	0.00001	0.00002
	A	0.00186	0.00206	0.00225
	B	0.00322	0.00336	0.00353
	B	0.00000	0.00000	0.00000
	B	0.00001	0.00001	0.00002
	B	0.00196	0.00210	0.00227
	C	0.00297	0.00311	0.00330
	C	0.00008	0.00009	0.00009
	C	0.00001	0.00001	0.00002
	C	0.00192	0.00206	0.00226

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X6H7H	(B * C * Y)	-0.00016	-0.00015	-0.00013
	(B * C * Y)	-0.00004	-0.00004	-0.00003
	(B * C * Y)	0.00001	0.00001	0.00001
	(B * C * Y)	0.00036	0.00037	0.00037
	(B * !C * Y)	-0.00017	-0.00015	-0.00013
	(B * !C * Y)	-0.00005	-0.00004	-0.00003
	(B * !C * Y)	0.00001	0.00001	0.00001
	(B * !C * Y)	0.00036	0.00037	0.00037
	(!B * C * Y)	-0.00016	-0.00014	-0.00011
	(!B * C * Y)	-0.00005	-0.00004	-0.00003
	(!B * C * Y)	0.00001	0.00001	0.00001
	(!B * C * Y)	0.00036	0.00036	0.00037

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X6H7H	(B * C * Y)	0.00016	0.00016	0.00016
	(B * C * Y)	0.00004	0.00004	0.00004
	(B * C * Y)	-0.00001	-0.00001	-0.00001
	(B * C * Y)	-0.00037	-0.00036	-0.00036
	(B * !C * Y)	0.00015	0.00016	0.00017
	(B * !C * Y)	0.00003	0.00004	0.00005
	(B * !C * Y)	-0.00001	-0.00001	-0.00001
	(B * !C * Y)	-0.00037	-0.00036	-0.00036
	(!B * C * Y)	0.00015	0.00016	0.00016
	(!B * C * Y)	0.00004	0.00004	0.00005
	(!B * C * Y)	-0.00001	-0.00001	-0.00001
	(!B * C * Y)	-0.00037	-0.00036	-0.00036

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X6H7H	(A * C * Y)	-0.00000	-0.00000	-0.00000
	(A * C * Y)	-0.00010	-0.00010	-0.00010
	(A * C * Y)	0.00001	0.00001	0.00001
	(A * C * Y)	0.00031	0.00031	0.00031
	(A * !C * Y)	-0.00000	-0.00000	0.00000
	(A * !C * Y)	-0.00008	-0.00008	-0.00008
	(A * !C * Y)	0.00001	0.00001	0.00001
	(A * !C * Y)	0.00031	0.00031	0.00031
	(!A * C * Y)	-0.00017	-0.00015	-0.00012
	(!A * C * Y)	-0.00004	-0.00004	-0.00003
	(!A * C * Y)	0.00001	0.00001	0.00001
	(!A * C * Y)	0.00031	0.00031	0.00032

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X6H7H	(A * C * Y)	0.00000	0.00000	0.00000
	(A * C * Y)	0.00010	0.00010	0.00010
	(A * C * Y)	-0.00001	-0.00001	-0.00001
	(A * C * Y)	-0.00031	-0.00031	-0.00030
	(A * !C * Y)	0.00000	0.00000	0.00000
	(A * !C * Y)	0.00008	0.00009	0.00010
	(A * !C * Y)	-0.00001	-0.00001	-0.00001
	(A * !C * Y)	-0.00031	-0.00031	-0.00030
	(!A * C * Y)	0.00016	0.00017	0.00017
	(!A * C * Y)	0.00003	0.00004	0.00004
	(!A * C * Y)	-0.00001	-0.00001	-0.00001
	(!A * C * Y)	-0.00031	-0.00031	-0.00030

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X6H7H	(B * Y)	-0.00000	-0.00000	0.00000
	(B * Y)	-0.00005	-0.00005	-0.00005
	(B * Y)	0.00001	0.00001	0.00001
	(B * Y)	0.00044	0.00044	0.00044
	(A * !B * Y)	-0.00000	-0.00000	0.00000
	(A * !B * Y)	-0.00005	-0.00005	-0.00004
	(A * !B * Y)	0.00001	0.00001	0.00001
	(A * !B * Y)	0.00044	0.00044	0.00044

Passive power(pJ) for C falling (conditional):

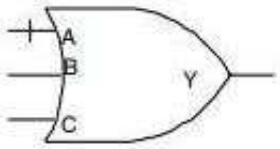
Cell Name	When	Power(pJ)		
		min	avg	max
OR3X6H7H	(B * Y)	0.00000	0.00000	0.00000
	(B * Y)	0.00005	0.00006	0.00006
	(B * Y)	-0.00001	-0.00001	-0.00001
	(B * Y)	-0.00044	-0.00044	-0.00043
	(A * !B * Y)	0.00000	0.00000	0.00001
	(A * !B * Y)	0.00004	0.00005	0.00005
	(A * !B * Y)	-0.00001	-0.00001	-0.00001
	(A * !B * Y)	-0.00044	-0.00044	-0.00043

OR3X8H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OR3 cell provides the logical OR of three inputs (A, B, C). The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	0	0	0
0	x	1	1
x	1	x	1
1	x	x	1

Footprint

Cell Name	Area
OR3X8H7H	4.48000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
OR3X8H7H	0.00206	0.00198	0.00213	0.21878

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OR3X8H7H	0.00000	0.11738	0.12192

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR3X8H7H	A->Y (RR)	0.04872	0.22859	0.66401
	B->Y (RR)	0.04672	0.22475	0.65523
	C->Y (RR)	0.04427	0.22007	0.64524

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR3X8H7H	A->Y (FF)	0.14658	0.31110	0.68549
	B->Y (FF)	0.14156	0.30900	0.69437
	C->Y (FF)	0.13004	0.29199	0.66829

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR3X8H7H	A	0.00216	0.00243	0.00268
	A	0.00016	0.00017	0.00017
	A	-0.00007	-0.00006	-0.00006
	A	0.00491	0.00518	0.00543
	B	0.00215	0.00244	0.00268
	B	0.00002	0.00003	0.00004
	B	-0.00007	-0.00006	-0.00006
	B	0.00445	0.00473	0.00497
	C	0.00218	0.00248	0.00272
	C	-0.00011	-0.00011	-0.00010
	C	-0.00007	-0.00006	-0.00005
	C	0.00410	0.00439	0.00463

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR3X8H7H	A	0.00553	0.00575	0.00599
	A	-0.00017	-0.00017	-0.00016
	A	0.00006	0.00007	0.00007
	A	0.00256	0.00278	0.00303
	B	0.00500	0.00522	0.00546
	B	-0.00004	-0.00003	-0.00002
	B	0.00006	0.00007	0.00007
	B	0.00262	0.00282	0.00307
	C	0.00436	0.00459	0.00486
	C	0.00010	0.00011	0.00011
	C	0.00006	0.00006	0.00007
	C	0.00245	0.00267	0.00295

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X8H7H	(B * C * Y)	-0.00030	-0.00027	-0.00022
	(B * C * Y)	-0.00007	-0.00006	-0.00006
	(B * C * Y)	0.00001	0.00001	0.00001
	(B * C * Y)	0.00065	0.00065	0.00065
	(B * !C * Y)	-0.00030	-0.00027	-0.00022
	(B * !C * Y)	-0.00006	-0.00006	-0.00006
	(B * !C * Y)	0.00001	0.00001	0.00001
	(B * !C * Y)	0.00065	0.00065	0.00065
	(!B * C * Y)	-0.00029	-0.00025	-0.00020
	(!B * C * Y)	-0.00008	-0.00007	-0.00006
	(!B * C * Y)	0.00001	0.00001	0.00001
	(!B * C * Y)	0.00065	0.00065	0.00066

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X8H7H	(B * C * Y)	0.00030	0.00030	0.00031
	(B * C * Y)	0.00006	0.00006	0.00007
	(B * C * Y)	-0.00001	-0.00001	-0.00001
	(B * C * Y)	-0.00065	-0.00064	-0.00064
	(B * !C * Y)	0.00030	0.00030	0.00030
	(B * !C * Y)	0.00006	0.00006	0.00006
	(B * !C * Y)	-0.00001	-0.00001	-0.00001
	(B * !C * Y)	-0.00065	-0.00064	-0.00064
	(!B * C * Y)	0.00028	0.00029	0.00029
	(!B * C * Y)	0.00006	0.00007	0.00008
	(!B * C * Y)	-0.00001	-0.00001	-0.00001
	(!B * C * Y)	-0.00065	-0.00065	-0.00065

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X8H7H	(A * C * Y)	-0.00000	-0.00000	-0.00000
	(A * C * Y)	-0.00017	-0.00017	-0.00016
	(A * C * Y)	0.00001	0.00001	0.00001
	(A * C * Y)	0.00059	0.00060	0.00060
	(A * !C * Y)	-0.00000	-0.00000	-0.00000
	(A * !C * Y)	-0.00014	-0.00014	-0.00014
	(A * !C * Y)	0.00001	0.00001	0.00001
	(A * !C * Y)	0.00059	0.00059	0.00059
	(!A * C * Y)	-0.00036	-0.00033	-0.00027
	(!A * C * Y)	-0.00006	-0.00006	-0.00005
	(!A * C * Y)	0.00001	0.00001	0.00001
	(!A * C * Y)	0.00055	0.00056	0.00057

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X8H7H	(A * C * Y)	0.00000	0.00000	0.00000
	(A * C * Y)	0.00016	0.00017	0.00017
	(A * C * Y)	-0.00001	-0.00001	-0.00001
	(A * C * Y)	-0.00060	-0.00059	-0.00059
	(A * !C * Y)	0.00000	0.00000	0.00000
	(A * !C * Y)	0.00014	0.00014	0.00014
	(A * !C * Y)	-0.00001	-0.00001	-0.00001
	(A * !C * Y)	-0.00059	-0.00059	-0.00058
	(!A * C * Y)	0.00036	0.00036	0.00037
	(!A * C * Y)	0.00005	0.00006	0.00006
	(!A * C * Y)	-0.00001	-0.00001	-0.00001
	(!A * C * Y)	-0.00056	-0.00055	-0.00054

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X8H7H	(B * Y)	-0.00000	-0.00000	-0.00000
	(B * Y)	-0.00009	-0.00009	-0.00008
	(B * Y)	0.00001	0.00001	0.00001
	(B * Y)	0.00080	0.00080	0.00080
	(A * !B * Y)	-0.00000	-0.00000	0.00000
	(A * !B * Y)	-0.00008	-0.00008	-0.00008
	(A * !B * Y)	0.00001	0.00001	0.00001
	(A * !B * Y)	0.00079	0.00080	0.00080

Passive power(pJ) for C falling (conditional):

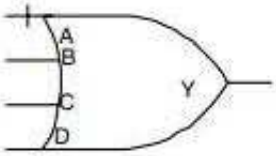
Cell Name	When	Power(pJ)		
		min	avg	max
OR3X8H7H	(B * Y)	0.00000	0.00000	0.00000
	(B * Y)	0.00009	0.00009	0.00009
	(B * Y)	-0.00001	-0.00001	-0.00001
	(B * Y)	-0.00080	-0.00080	-0.00079
	(A * !B * Y)	0.00000	0.00000	0.00000
	(A * !B * Y)	0.00008	0.00009	0.00009
	(A * !B * Y)	-0.00001	-0.00001	-0.00001
	(A * !B * Y)	-0.00080	-0.00079	-0.00077

OR4X0P5H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OR4 cell provides the logical OR of four inputs (A, B, C, D). The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A	B	C	D	Y
0	0	0	0	0
0	0	x	1	1
0	x	1	x	1
x	1	x	x	1
1	x	x	x	1

Footprint

Cell Name	Area
OR4X0P5H7H	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A	B	C	D	Y
OR4X0P5H7H	0.00091	0.00083	0.00084	0.00087	0.03036

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OR4X0P5H7H	0.00000	0.01088	0.02025

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR4X0P5H7H	A->Y (RR)	0.06286	0.23719	0.66165
	B->Y (RR)	0.06098	0.23373	0.65353
	C->Y (RR)	0.05925	0.23056	0.64686
	D->Y (RR)	0.05735	0.22708	0.63946

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR4X0P5H7H	A->Y (FF)	0.21753	0.36788	0.71803
	B->Y (FF)	0.20911	0.36305	0.72563
	C->Y (FF)	0.20105	0.35756	0.73070
	D->Y (FF)	0.18768	0.33956	0.70503

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR4X0P5H7H	A	0.00040	0.00047	0.00053
	A	0.00013	0.00013	0.00013
	A	-0.00007	-0.00007	-0.00007
	A	0.00179	0.00186	0.00192
	B	0.00042	0.00048	0.00054
	B	0.00009	0.00009	0.00009
	B	-0.00007	-0.00007	-0.00007
	B	0.00165	0.00171	0.00177
	C	0.00042	0.00049	0.00054
	C	0.00005	0.00005	0.00005
	C	-0.00007	-0.00007	-0.00007
	C	0.00155	0.00161	0.00167
	D	0.00043	0.00049	0.00055
	D	-0.00000	-0.00000	0.00000
	D	-0.00008	-0.00007	-0.00007
	D	0.00147	0.00153	0.00159

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR4X0P5H7H	A	0.00197	0.00203	0.00211
	A	-0.00013	-0.00013	-0.00013
	A	0.00007	0.00007	0.00008
	A	0.00050	0.00056	0.00064
	B	0.00181	0.00187	0.00194
	B	-0.00009	-0.00009	-0.00009
	B	0.00007	0.00007	0.00008
	B	0.00053	0.00059	0.00066
	C	0.00167	0.00173	0.00180
	C	-0.00005	-0.00005	-0.00005
	C	0.00007	0.00007	0.00008
	C	0.00052	0.00058	0.00065
	D	0.00153	0.00159	0.00166
	D	0.00000	0.00000	0.00000
	D	0.00007	0.00007	0.00008
	D	0.00049	0.00054	0.00061

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X0P5H7H	(B * D * Y)	-0.00009	-0.00008	-0.00007
	(B * D * Y)	-0.00002	-0.00002	-0.00002
	(B * D * Y)	0.00000	0.00000	0.00000
	(B * D * Y)	0.00031	0.00031	0.00031
	(B * C * !D * Y)	-0.00009	-0.00008	-0.00007
	(B * C * !D * Y)	-0.00002	-0.00002	-0.00002
	(B * C * !D * Y)	0.00000	0.00000	0.00000
	(B * C * !D * Y)	0.00031	0.00031	0.00031
	(B * !C * !D * Y)	-0.00009	-0.00008	-0.00007
	(B * !C * !D * Y)	-0.00002	-0.00002	-0.00002
	(B * !C * !D * Y)	0.00000	0.00000	0.00000
	(B * !C * !D * Y)	0.00031	0.00031	0.00031
	(!B * C * D * Y)	-0.00009	-0.00008	-0.00006
	(!B * C * D * Y)	-0.00002	-0.00002	-0.00002
	(!B * C * D * Y)	0.00000	0.00000	0.00000
	(!B * C * D * Y)	0.00031	0.00031	0.00031
	(!B * C * !D * Y)	-0.00009	-0.00008	-0.00006
	(!B * C * !D * Y)	-0.00002	-0.00002	-0.00001
	(!B * C * !D * Y)	0.00000	0.00000	0.00000
	(!B * C * !D * Y)	0.00031	0.00031	0.00031
	(!B * !C * D * Y)	-0.00008	-0.00007	-0.00006
	(!B * !C * D * Y)	-0.00002	-0.00002	-0.00001
	(!B * !C * D * Y)	0.00000	0.00000	0.00000
	(!B * !C * D * Y)	0.00031	0.00031	0.00031

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X0P5H7H	(B * D * Y)	0.00009	0.00009	0.00009
	(B * D * Y)	0.00002	0.00002	0.00002
	(B * D * Y)	-0.00000	-0.00000	-0.00000
	(B * D * Y)	-0.00031	-0.00031	-0.00031
	(B * C * !D * Y)	0.00009	0.00009	0.00009
	(B * C * !D * Y)	0.00002	0.00002	0.00002
	(B * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(B * C * !D * Y)	-0.00031	-0.00031	-0.00031
	(B * !C * !D * Y)	0.00009	0.00009	0.00009
	(B * !C * !D * Y)	0.00002	0.00002	0.00002
	(B * !C * !D * Y)	-0.00000	-0.00000	-0.00000
	(B * !C * !D * Y)	-0.00031	-0.00031	-0.00031
	(!B * C * D * Y)	0.00009	0.00009	0.00009
	(!B * C * D * Y)	0.00002	0.00002	0.00002
	(!B * C * D * Y)	-0.00000	-0.00000	-0.00000
	(!B * C * D * Y)	-0.00031	-0.00031	-0.00031
	(!B * C * !D * Y)	0.00008	0.00009	0.00009
	(!B * C * !D * Y)	0.00001	0.00002	0.00002
	(!B * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(!B * C * !D * Y)	-0.00031	-0.00031	-0.00031
	(!B * !C * D * Y)	0.00008	0.00008	0.00009
	(!B * !C * D * Y)	0.00001	0.00002	0.00002
	(!B * !C * D * Y)	-0.00000	-0.00000	-0.00000
	(!B * !C * D * Y)	-0.00031	-0.00031	-0.00031

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X0P5H7H	(A * C * D * Y)	-0.00000	-0.00000	0.00000
	(A * C * D * Y)	-0.00006	-0.00006	-0.00005
	(A * C * D * Y)	0.00000	0.00000	0.00000
	(A * C * D * Y)	0.00026	0.00026	0.00026
	(A * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(A * C * !D * Y)	-0.00005	-0.00005	-0.00005
	(A * C * !D * Y)	0.00000	0.00000	0.00000
	(A * C * !D * Y)	0.00026	0.00026	0.00026
	(A * !C * D * Y)	-0.00000	-0.00000	0.00000
	(A * !C * D * Y)	-0.00005	-0.00005	-0.00005
	(A * !C * D * Y)	0.00000	0.00000	0.00000
	(A * !C * D * Y)	0.00026	0.00026	0.00026
	(A * !C * !D * Y)	-0.00000	-0.00000	0.00000
	(A * !C * !D * Y)	-0.00005	-0.00005	-0.00004
	(A * !C * !D * Y)	0.00000	0.00000	0.00000
	(A * !C * !D * Y)	0.00026	0.00026	0.00026
	(!A * C * D * Y)	-0.00009	-0.00008	-0.00007
	(!A * C * D * Y)	-0.00002	-0.00002	-0.00002
	(!A * C * D * Y)	0.00000	0.00000	0.00000
	(!A * C * D * Y)	0.00026	0.00026	0.00026
	(!A * C * !D * Y)	-0.00009	-0.00008	-0.00007
	(!A * C * !D * Y)	-0.00002	-0.00002	-0.00002
	(!A * C * !D * Y)	0.00000	0.00000	0.00000
	(!A * C * !D * Y)	0.00026	0.00026	0.00026
	(!A * !C * D * Y)	-0.00009	-0.00007	-0.00006
	(!A * !C * D * Y)	-0.00003	-0.00002	-0.00002
	(!A * !C * D * Y)	0.00000	0.00000	0.00000
	(!A * !C * D * Y)	0.00026	0.00026	0.00026

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X0P5H7H	(A * C * D * Y)	0.00000	0.00000	0.00000
	(A * C * D * Y)	0.00005	0.00006	0.00006
	(A * C * D * Y)	-0.00000	-0.00000	-0.00000
	(A * C * D * Y)	-0.00026	-0.00026	-0.00026
	(A * C * !D * Y)	0.00000	0.00000	0.00000
	(A * C * !D * Y)	0.00005	0.00005	0.00005
	(A * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(A * C * !D * Y)	-0.00026	-0.00026	-0.00026
	(A * !C * D * Y)	0.00000	0.00000	0.00000
	(A * !C * D * Y)	0.00005	0.00005	0.00005
	(A * !C * D * Y)	-0.00000	-0.00000	-0.00000
	(A * !C * D * Y)	-0.00026	-0.00026	-0.00026
	(A * !C * !D * Y)	0.00000	0.00000	0.00000
	(A * !C * !D * Y)	0.00005	0.00005	0.00005
	(A * !C * !D * Y)	-0.00000	-0.00000	-0.00000
	(A * !C * !D * Y)	-0.00026	-0.00026	-0.00025
	(!A * C * D * Y)	0.00009	0.00009	0.00009
	(!A * C * D * Y)	0.00002	0.00002	0.00002
	(!A * C * D * Y)	-0.00000	-0.00000	-0.00000
	(!A * C * D * Y)	-0.00026	-0.00026	-0.00025
	(!A * C * !D * Y)	0.00009	0.00009	0.00009
	(!A * C * !D * Y)	0.00002	0.00002	0.00002
	(!A * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(!A * C * !D * Y)	-0.00026	-0.00026	-0.00026
	(!A * !C * D * Y)	0.00008	0.00009	0.00009
	(!A * !C * D * Y)	0.00002	0.00002	0.00003
	(!A * !C * D * Y)	-0.00000	-0.00000	-0.00000
	(!A * !C * D * Y)	-0.00026	-0.00026	-0.00025

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X0P5H7H	(B * D * Y)	-0.00000	-0.00000	0.00000
	(B * D * Y)	-0.00005	-0.00005	-0.00005
	(B * D * Y)	0.00000	0.00000	0.00000
	(B * D * Y)	0.00027	0.00027	0.00027
	(B * !D * Y)	-0.00000	-0.00000	-0.00000
	(B * !D * Y)	-0.00004	-0.00004	-0.00004
	(B * !D * Y)	0.00000	0.00000	0.00000
	(B * !D * Y)	0.00027	0.00027	0.00027
	(A * !B * D * Y)	-0.00000	-0.00000	0.00000
	(A * !B * D * Y)	-0.00005	-0.00005	-0.00005
	(A * !B * D * Y)	0.00000	0.00000	0.00000
	(A * !B * D * Y)	0.00027	0.00027	0.00027
	(A * !B * !D * Y)	-0.00000	-0.00000	0.00000
	(A * !B * !D * Y)	-0.00004	-0.00004	-0.00004
	(A * !B * !D * Y)	0.00000	0.00000	0.00000
	(A * !B * !D * Y)	0.00027	0.00027	0.00027
	(!A * !B * D * Y)	-0.00009	-0.00008	-0.00007
	(!A * !B * D * Y)	-0.00003	-0.00002	-0.00002
	(!A * !B * D * Y)	0.00000	0.00000	0.00000
	(!A * !B * D * Y)	0.00027	0.00027	0.00027

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X0P5H7H	(B * D * Y)	0.00000	0.00000	0.00000
	(B * D * Y)	0.00005	0.00005	0.00005
	(B * D * Y)	-0.00000	-0.00000	0.00000
	(B * D * Y)	-0.00027	-0.00027	-0.00027
	(B * !D * Y)	0.00000	0.00000	0.00000
	(B * !D * Y)	0.00005	0.00005	0.00005
	(B * !D * Y)	-0.00000	-0.00000	-0.00000
	(B * !D * Y)	-0.00027	-0.00027	-0.00027
	(A * !B * D * Y)	0.00000	0.00000	0.00000
	(A * !B * D * Y)	0.00005	0.00005	0.00005
	(A * !B * D * Y)	-0.00000	-0.00000	-0.00000
	(A * !B * D * Y)	-0.00027	-0.00027	-0.00027
	(A * !B * !D * Y)	0.00000	0.00000	0.00000
	(A * !B * !D * Y)	0.00004	0.00005	0.00005
	(A * !B * !D * Y)	-0.00000	-0.00000	-0.00000
	(A * !B * !D * Y)	-0.00027	-0.00027	-0.00027
	(!A * !B * D * Y)	0.00008	0.00009	0.00009
	(!A * !B * D * Y)	0.00002	0.00002	0.00003
	(!A * !B * D * Y)	-0.00000	-0.00000	-0.00000
	(!A * !B * D * Y)	-0.00027	-0.00027	-0.00026

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X0P5H7H	(C * Y)	-0.00000	-0.00000	0.00000
	(C * Y)	-0.00003	-0.00003	-0.00003
	(C * Y)	0.00000	0.00000	0.00000
	(C * Y)	0.00034	0.00034	0.00035
	(B * !C * Y)	-0.00000	-0.00000	-0.00000
	(B * !C * Y)	-0.00003	-0.00003	-0.00003
	(B * !C * Y)	0.00000	0.00000	0.00000
	(B * !C * Y)	0.00034	0.00034	0.00035
	(A * !B * !C * Y)	-0.00000	-0.00000	0.00000
	(A * !B * !C * Y)	-0.00003	-0.00003	-0.00003
	(A * !B * !C * Y)	0.00000	0.00000	0.00000
	(A * !B * !C * Y)	0.00034	0.00034	0.00035

Passive power(pJ) for D falling (conditional):

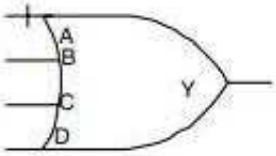
Cell Name	When	Power(pJ)		
		min	avg	max
OR4X0P5H7H	(C * Y)	0.00000	0.00000	0.00000
	(C * Y)	0.00003	0.00003	0.00003
	(C * Y)	-0.00000	-0.00000	-0.00000
	(C * Y)	-0.00034	-0.00034	-0.00034
	(B * !C * Y)	0.00000	0.00000	0.00000
	(B * !C * Y)	0.00003	0.00003	0.00003
	(B * !C * Y)	-0.00000	-0.00000	-0.00000
	(B * !C * Y)	-0.00035	-0.00034	-0.00034
	(A * !B * !C * Y)	0.00000	0.00000	0.00000
	(A * !B * !C * Y)	0.00003	0.00003	0.00004
	(A * !B * !C * Y)	-0.00000	-0.00000	-0.00000
	(A * !B * !C * Y)	-0.00034	-0.00034	-0.00034

OR4X0P7H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OR4 cell provides the logical OR of four inputs (A, B, C, D). The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A	B	C	D	Y
0	0	0	0	0
0	0	x	1	1
0	x	1	x	1
x	1	x	x	1
1	x	x	x	1

Footprint

Cell Name	Area
OR4X0P7H7H	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A	B	C	D	Y
OR4X0P7H7H	0.00093	0.00086	0.00087	0.00088	0.03455

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OR4X0P7H7H	0.00000	0.01278	0.01976

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR4X0P7H7H	A->Y (RR)	0.06248	0.23799	0.66631
	B->Y (RR)	0.06067	0.23464	0.65807
	C->Y (RR)	0.05898	0.23156	0.65114
	D->Y (RR)	0.05688	0.22795	0.64391

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR4X0P7H7H	A->Y (FF)	0.22340	0.37722	0.73233
	B->Y (FF)	0.21537	0.37272	0.73991
	C->Y (FF)	0.20745	0.36751	0.74626
	D->Y (FF)	0.19315	0.34878	0.72059

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR4X0P7H7H	A	0.00043	0.00050	0.00056
	A	0.00012	0.00012	0.00012
	A	-0.00007	-0.00007	-0.00007
	A	0.00184	0.00191	0.00198
	B	0.00044	0.00051	0.00057
	B	0.00008	0.00008	0.00009
	B	-0.00007	-0.00007	-0.00007
	B	0.00170	0.00177	0.00183
	C	0.00045	0.00051	0.00057
	C	0.00004	0.00004	0.00004
	C	-0.00007	-0.00007	-0.00007
	C	0.00160	0.00166	0.00172
	D	0.00046	0.00052	0.00058
	D	-0.00000	-0.00000	-0.00000
	D	-0.00007	-0.00007	-0.00007
	D	0.00152	0.00158	0.00164

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR4X0P7H7H	A	0.00203	0.00210	0.00217
	A	-0.00012	-0.00012	-0.00012
	A	0.00007	0.00007	0.00007
	A	0.00053	0.00060	0.00068
	B	0.00188	0.00194	0.00201
	B	-0.00009	-0.00008	-0.00008
	B	0.00007	0.00007	0.00007
	B	0.00057	0.00063	0.00070
	C	0.00174	0.00180	0.00187
	C	-0.00004	-0.00004	-0.00004
	C	0.00007	0.00007	0.00007
	C	0.00057	0.00062	0.00070
	D	0.00160	0.00165	0.00172
	D	0.00000	0.00000	0.00001
	D	0.00007	0.00007	0.00007
	D	0.00054	0.00059	0.00066

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X0P7H7H	(B * D * Y)	-0.00009	-0.00008	-0.00007
	(B * D * Y)	-0.00002	-0.00002	-0.00002
	(B * D * Y)	0.00000	0.00000	0.00000
	(B * D * Y)	0.00032	0.00032	0.00032
	(B * C * !D * Y)	-0.00009	-0.00008	-0.00007
	(B * C * !D * Y)	-0.00002	-0.00002	-0.00002
	(B * C * !D * Y)	0.00000	0.00000	0.00000
	(B * C * !D * Y)	0.00032	0.00032	0.00032
	(B * !C * !D * Y)	-0.00009	-0.00008	-0.00007
	(B * !C * !D * Y)	-0.00002	-0.00002	-0.00001
	(B * !C * !D * Y)	0.00000	0.00000	0.00000
	(B * !C * !D * Y)	0.00032	0.00032	0.00032
	(!B * C * D * Y)	-0.00008	-0.00008	-0.00006
	(!B * C * D * Y)	-0.00002	-0.00002	-0.00002
	(!B * C * D * Y)	0.00000	0.00000	0.00000
	(!B * C * D * Y)	0.00032	0.00032	0.00032
	(!B * C * !D * Y)	-0.00009	-0.00008	-0.00006
	(!B * C * !D * Y)	-0.00002	-0.00002	-0.00001
	(!B * C * !D * Y)	0.00000	0.00000	0.00000
	(!B * C * !D * Y)	0.00032	0.00032	0.00032
	(!B * !C * D * Y)	-0.00008	-0.00007	-0.00006
	(!B * !C * D * Y)	-0.00002	-0.00002	-0.00002
	(!B * !C * D * Y)	0.00000	0.00000	0.00000
	(!B * !C * D * Y)	0.00032	0.00032	0.00032

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X0P7H7H	(B * D * Y)	0.00009	0.00009	0.00009
	(B * D * Y)	0.00002	0.00002	0.00002
	(B * D * Y)	-0.00000	-0.00000	-0.00000
	(B * D * Y)	-0.00032	-0.00032	-0.00032
	(B * C * !D * Y)	0.00009	0.00009	0.00009
	(B * C * !D * Y)	0.00002	0.00002	0.00002
	(B * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(B * C * !D * Y)	-0.00032	-0.00032	-0.00032
	(B * !C * !D * Y)	0.00009	0.00009	0.00010
	(B * !C * !D * Y)	0.00001	0.00002	0.00002
	(B * !C * !D * Y)	-0.00000	-0.00000	-0.00000
	(B * !C * !D * Y)	-0.00032	-0.00032	-0.00032
	(!B * C * D * Y)	0.00008	0.00009	0.00009
	(!B * C * D * Y)	0.00002	0.00002	0.00002
	(!B * C * D * Y)	-0.00000	-0.00000	-0.00000
	(!B * C * D * Y)	-0.00032	-0.00032	-0.00032
	(!B * C * !D * Y)	0.00008	0.00009	0.00009
	(!B * C * !D * Y)	0.00001	0.00002	0.00002
	(!B * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(!B * C * !D * Y)	-0.00032	-0.00032	-0.00032
	(!B * !C * D * Y)	0.00008	0.00008	0.00008
	(!B * !C * D * Y)	0.00002	0.00002	0.00002
	(!B * !C * D * Y)	-0.00000	-0.00000	-0.00000
	(!B * !C * D * Y)	-0.00032	-0.00032	-0.00032

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X0P7H7H	(A * C * D * Y)	-0.00000	-0.00000	-0.00000
	(A * C * D * Y)	-0.00006	-0.00006	-0.00005
	(A * C * D * Y)	0.00000	0.00000	0.00000
	(A * C * D * Y)	0.00026	0.00027	0.00027
	(A * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(A * C * !D * Y)	-0.00005	-0.00005	-0.00005
	(A * C * !D * Y)	0.00000	0.00000	0.00001
	(A * C * !D * Y)	0.00027	0.00027	0.00027
	(A * !C * D * Y)	-0.00000	-0.00000	-0.00000
	(A * !C * D * Y)	-0.00005	-0.00005	-0.00005
	(A * !C * D * Y)	0.00000	0.00000	0.00000
	(A * !C * D * Y)	0.00027	0.00027	0.00027
	(A * !C * !D * Y)	-0.00000	-0.00000	0.00000
	(A * !C * !D * Y)	-0.00005	-0.00005	-0.00004
	(A * !C * !D * Y)	0.00000	0.00000	0.00000
	(A * !C * !D * Y)	0.00026	0.00027	0.00027
	(!A * C * D * Y)	-0.00009	-0.00008	-0.00007
	(!A * C * D * Y)	-0.00002	-0.00002	-0.00002
	(!A * C * D * Y)	0.00000	0.00000	0.00000
	(!A * C * D * Y)	0.00026	0.00026	0.00027
	(!A * C * !D * Y)	-0.00009	-0.00008	-0.00007
	(!A * C * !D * Y)	-0.00002	-0.00002	-0.00002
	(!A * C * !D * Y)	0.00000	0.00000	0.00000
	(!A * C * !D * Y)	0.00026	0.00026	0.00027
	(!A * !C * D * Y)	-0.00009	-0.00007	-0.00006
	(!A * !C * D * Y)	-0.00002	-0.00002	-0.00002
	(!A * !C * D * Y)	0.00000	0.00000	0.00000
	(!A * !C * D * Y)	0.00026	0.00026	0.00027

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X0P7H7H	(A * C * D * Y)	0.00000	0.00000	0.00000
	(A * C * D * Y)	0.00005	0.00006	0.00006
	(A * C * D * Y)	-0.00000	-0.00000	-0.00000
	(A * C * D * Y)	-0.00027	-0.00027	-0.00026
	(A * C * !D * Y)	0.00000	0.00000	0.00000
	(A * C * !D * Y)	0.00005	0.00005	0.00005
	(A * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(A * C * !D * Y)	-0.00027	-0.00027	-0.00027
	(A * !C * D * Y)	0.00000	0.00000	0.00000
	(A * !C * D * Y)	0.00005	0.00005	0.00005
	(A * !C * D * Y)	-0.00000	-0.00000	-0.00000
	(A * !C * D * Y)	-0.00027	-0.00027	-0.00026
	(A * !C * !D * Y)	0.00000	0.00000	0.00000
	(A * !C * !D * Y)	0.00004	0.00005	0.00005
	(A * !C * !D * Y)	-0.00000	-0.00000	-0.00000
	(A * !C * !D * Y)	-0.00027	-0.00027	-0.00026
	(!A * C * D * Y)	0.00009	0.00009	0.00009
	(!A * C * D * Y)	0.00002	0.00002	0.00002
	(!A * C * D * Y)	-0.00000	-0.00000	-0.00000
	(!A * C * D * Y)	-0.00027	-0.00026	-0.00026
	(!A * C * !D * Y)	0.00009	0.00009	0.00009
	(!A * C * !D * Y)	0.00002	0.00002	0.00002
	(!A * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(!A * C * !D * Y)	-0.00027	-0.00026	-0.00026
	(!A * !C * D * Y)	0.00009	0.00009	0.00009
	(!A * !C * D * Y)	0.00002	0.00002	0.00002
	(!A * !C * D * Y)	-0.00000	-0.00000	-0.00000
	(!A * !C * D * Y)	-0.00027	-0.00026	-0.00026

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X0P7H7H	(B * D * Y)	-0.00000	-0.00000	-0.00000
	(B * D * Y)	-0.00005	-0.00005	-0.00005
	(B * D * Y)	0.00000	0.00000	0.00000
	(B * D * Y)	0.00027	0.00027	0.00028
	(B * !D * Y)	-0.00000	-0.00000	-0.00000
	(B * !D * Y)	-0.00004	-0.00004	-0.00004
	(B * !D * Y)	0.00000	0.00000	0.00000
	(B * !D * Y)	0.00027	0.00027	0.00027
	(A * !B * D * Y)	-0.00000	-0.00000	-0.00000
	(A * !B * D * Y)	-0.00005	-0.00005	-0.00005
	(A * !B * D * Y)	0.00000	0.00000	0.00000
	(A * !B * D * Y)	0.00027	0.00027	0.00027
	(A * !B * !D * Y)	-0.00000	-0.00000	0.00000
	(A * !B * !D * Y)	-0.00004	-0.00004	-0.00004
	(A * !B * !D * Y)	0.00000	0.00000	0.00000
	(A * !B * !D * Y)	0.00027	0.00027	0.00027
	(!A * !B * D * Y)	-0.00009	-0.00008	-0.00007
	(!A * !B * D * Y)	-0.00003	-0.00002	-0.00002
	(!A * !B * D * Y)	0.00000	0.00000	0.00000
	(!A * !B * D * Y)	0.00027	0.00027	0.00027

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X0P7H7H	(B * D * Y)	0.00000	0.00000	0.00000
	(B * D * Y)	0.00005	0.00005	0.00005
	(B * D * Y)	-0.00000	-0.00000	-0.00000
	(B * D * Y)	-0.00027	-0.00027	-0.00027
	(B * !D * Y)	0.00000	0.00000	0.00000
	(B * !D * Y)	0.00005	0.00005	0.00005
	(B * !D * Y)	-0.00000	-0.00000	-0.00000
	(B * !D * Y)	-0.00027	-0.00027	-0.00027
	(A * !B * D * Y)	0.00000	0.00000	0.00000
	(A * !B * D * Y)	0.00005	0.00005	0.00005
	(A * !B * D * Y)	-0.00000	-0.00000	-0.00000
	(A * !B * D * Y)	-0.00027	-0.00027	-0.00027
	(A * !B * !D * Y)	0.00000	0.00000	0.00001
	(A * !B * !D * Y)	0.00004	0.00004	0.00005
	(A * !B * !D * Y)	-0.00000	-0.00000	-0.00000
	(A * !B * !D * Y)	-0.00027	-0.00027	-0.00027
	(!A * !B * D * Y)	0.00008	0.00009	0.00009
	(!A * !B * D * Y)	0.00002	0.00002	0.00003
	(!A * !B * D * Y)	-0.00000	-0.00000	-0.00000
	(!A * !B * D * Y)	-0.00027	-0.00027	-0.00026

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X0P7H7H	(C * Y)	-0.00000	-0.00000	0.00000
	(C * Y)	-0.00003	-0.00003	-0.00003
	(C * Y)	0.00000	0.00000	0.00000
	(C * Y)	0.00034	0.00034	0.00034
	(B * !C * Y)	-0.00000	-0.00000	0.00000
	(B * !C * Y)	-0.00003	-0.00003	-0.00003
	(B * !C * Y)	0.00000	0.00000	0.00000
	(B * !C * Y)	0.00034	0.00034	0.00034
	(A * !B * !C * Y)	-0.00000	-0.00000	0.00000
	(A * !B * !C * Y)	-0.00003	-0.00003	-0.00002
	(A * !B * !C * Y)	0.00000	0.00000	0.00000
	(A * !B * !C * Y)	0.00034	0.00034	0.00034

Passive power(pJ) for D falling (conditional):

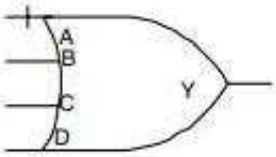
Cell Name	When	Power(pJ)		
		min	avg	max
OR4X0P7H7H	(C * Y)	-0.00000	0.00000	0.00000
	(C * Y)	0.00003	0.00003	0.00003
	(C * Y)	-0.00000	-0.00000	-0.00000
	(C * Y)	-0.00034	-0.00034	-0.00034
	(B * !C * Y)	0.00000	0.00000	0.00000
	(B * !C * Y)	0.00003	0.00003	0.00003
	(B * !C * Y)	-0.00000	-0.00000	-0.00000
	(B * !C * Y)	-0.00034	-0.00034	-0.00033
	(A * !B * !C * Y)	0.00000	0.00000	0.00001
	(A * !B * !C * Y)	0.00002	0.00003	0.00003
	(A * !B * !C * Y)	-0.00000	-0.00000	-0.00000
	(A * !B * !C * Y)	-0.00034	-0.00034	-0.00034

OR4X1H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OR4 cell provides the logical OR of four inputs (A, B, C, D). The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A	B	C	D	Y
0	0	0	0	0
0	0	x	1	1
0	x	1	x	1
x	1	x	x	1
1	x	x	x	1

Footprint

Cell Name	Area
OR4X1H7H	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A	B	C	D	Y
OR4X1H7H	0.00089	0.00084	0.00082	0.00087	0.04146

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OR4X1H7H	0.00000	0.01689	0.01920

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR4X1H7H	A->Y (RR)	0.05951	0.23587	0.66527
	B->Y (RR)	0.05786	0.23268	0.65790
	C->Y (RR)	0.05598	0.22939	0.65103
	D->Y (RR)	0.05416	0.22603	0.64393

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR4X1H7H	A->Y (FF)	0.21860	0.37754	0.74186
	B->Y (FF)	0.21150	0.37371	0.75002
	C->Y (FF)	0.20225	0.36742	0.75538
	D->Y (FF)	0.18972	0.35011	0.73073

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR4X1H7H	A	0.00047	0.00055	0.00061
	A	0.00012	0.00012	0.00012
	A	-0.00007	-0.00007	-0.00006
	A	0.00183	0.00191	0.00197
	B	0.00049	0.00056	0.00062
	B	0.00008	0.00008	0.00008
	B	-0.00007	-0.00007	-0.00007
	B	0.00170	0.00178	0.00184
	C	0.00049	0.00056	0.00062
	C	0.00003	0.00003	0.00004
	C	-0.00007	-0.00007	-0.00007
	C	0.00159	0.00166	0.00172
	D	0.00050	0.00057	0.00063
	D	-0.00001	-0.00001	0.00000
	D	-0.00007	-0.00007	-0.00006
	D	0.00151	0.00158	0.00164

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR4X1H7H	A	0.00201	0.00207	0.00215
	A	-0.00012	-0.00012	-0.00012
	A	0.00007	0.00007	0.00007
	A	0.00057	0.00063	0.00071
	B	0.00186	0.00192	0.00199
	B	-0.00008	-0.00008	-0.00008
	B	0.00007	0.00007	0.00007
	B	0.00059	0.00065	0.00072
	C	0.00171	0.00177	0.00184
	C	-0.00004	-0.00003	-0.00003
	C	0.00007	0.00007	0.00007
	C	0.00059	0.00065	0.00072
	D	0.00157	0.00163	0.00171
	D	0.00000	0.00001	0.00001
	D	0.00006	0.00007	0.00007
	D	0.00056	0.00061	0.00069

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X1H7H	(B * D * Y)	-0.00009	-0.00008	-0.00007
	(B * D * Y)	-0.00002	-0.00002	-0.00002
	(B * D * Y)	0.00000	0.00000	0.00000
	(B * D * Y)	0.00030	0.00031	0.00031
	(B * C * !D * Y)	-0.00009	-0.00008	-0.00007
	(B * C * !D * Y)	-0.00002	-0.00002	-0.00002
	(B * C * !D * Y)	0.00000	0.00000	0.00000
	(B * C * !D * Y)	0.00031	0.00031	0.00031
	(B * !C * !D * Y)	-0.00009	-0.00008	-0.00007
	(B * !C * !D * Y)	-0.00002	-0.00002	-0.00001
	(B * !C * !D * Y)	0.00000	0.00000	0.00000
	(B * !C * !D * Y)	0.00030	0.00031	0.00031
	(!B * C * D * Y)	-0.00009	-0.00008	-0.00006
	(!B * C * D * Y)	-0.00002	-0.00002	-0.00002
	(!B * C * D * Y)	0.00000	0.00000	0.00000
	(!B * C * D * Y)	0.00030	0.00031	0.00031
	(!B * C * !D * Y)	-0.00009	-0.00008	-0.00006
	(!B * C * !D * Y)	-0.00002	-0.00002	-0.00001
	(!B * C * !D * Y)	0.00000	0.00000	0.00000
	(!B * C * !D * Y)	0.00030	0.00031	0.00031
	(!B * !C * D * Y)	-0.00008	-0.00007	-0.00006
	(!B * !C * D * Y)	-0.00002	-0.00002	-0.00002
	(!B * !C * D * Y)	0.00000	0.00000	0.00000
	(!B * !C * D * Y)	0.00030	0.00031	0.00031

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X1H7H	(B * D * Y)	0.00009	0.00009	0.00009
	(B * D * Y)	0.00002	0.00002	0.00002
	(B * D * Y)	-0.00000	-0.00000	-0.00000
	(B * D * Y)	-0.00031	-0.00031	-0.00030
	(B * C * !D * Y)	0.00009	0.00009	0.00009
	(B * C * !D * Y)	0.00002	0.00002	0.00002
	(B * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(B * C * !D * Y)	-0.00031	-0.00031	-0.00030
	(B * !C * !D * Y)	0.00009	0.00009	0.00010
	(B * !C * !D * Y)	0.00001	0.00002	0.00002
	(B * !C * !D * Y)	-0.00000	-0.00000	-0.00000
	(B * !C * !D * Y)	-0.00031	-0.00031	-0.00030
	(!B * C * D * Y)	0.00008	0.00009	0.00009
	(!B * C * D * Y)	0.00002	0.00002	0.00002
	(!B * C * D * Y)	-0.00000	-0.00000	-0.00000
	(!B * C * D * Y)	-0.00031	-0.00031	-0.00030
	(!B * C * !D * Y)	0.00008	0.00009	0.00009
	(!B * C * !D * Y)	0.00001	0.00002	0.00002
	(!B * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(!B * C * !D * Y)	-0.00031	-0.00031	-0.00030
	(!B * !C * D * Y)	0.00008	0.00008	0.00008
	(!B * !C * D * Y)	0.00002	0.00002	0.00002
	(!B * !C * D * Y)	-0.00000	-0.00000	-0.00000
	(!B * !C * D * Y)	-0.00031	-0.00031	-0.00030

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X1H7H	(A * C * D * Y)	-0.00000	-0.00000	-0.00000
	(A * C * D * Y)	-0.00005	-0.00005	-0.00005
	(A * C * D * Y)	0.00000	0.00000	0.00000
	(A * C * D * Y)	0.00027	0.00027	0.00027
	(A * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(A * C * !D * Y)	-0.00005	-0.00005	-0.00005
	(A * C * !D * Y)	0.00000	0.00000	0.00000
	(A * C * !D * Y)	0.00027	0.00027	0.00027
	(A * !C * D * Y)	-0.00000	-0.00000	0.00000
	(A * !C * D * Y)	-0.00005	-0.00005	-0.00005
	(A * !C * D * Y)	0.00000	0.00000	0.00000
	(A * !C * D * Y)	0.00027	0.00027	0.00027
	(A * !C * !D * Y)	-0.00000	-0.00000	0.00000
	(A * !C * !D * Y)	-0.00004	-0.00005	-0.00004
	(A * !C * !D * Y)	0.00000	0.00000	0.00000
	(A * !C * !D * Y)	0.00027	0.00027	0.00027
	(!A * C * D * Y)	-0.00009	-0.00008	-0.00007
	(!A * C * D * Y)	-0.00002	-0.00002	-0.00002
	(!A * C * D * Y)	0.00000	0.00000	0.00000
	(!A * C * D * Y)	0.00027	0.00027	0.00027
	(!A * C * !D * Y)	-0.00009	-0.00008	-0.00007
	(!A * C * !D * Y)	-0.00002	-0.00002	-0.00002
	(!A * C * !D * Y)	0.00000	0.00000	0.00000
	(!A * C * !D * Y)	0.00027	0.00027	0.00027
	(!A * !C * D * Y)	-0.00009	-0.00007	-0.00006
	(!A * !C * D * Y)	-0.00002	-0.00002	-0.00002
	(!A * !C * D * Y)	0.00000	0.00000	0.00000
	(!A * !C * D * Y)	0.00027	0.00027	0.00027

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X1H7H	(A * C * D * Y)	0.00000	0.00000	0.00000
	(A * C * D * Y)	0.00005	0.00005	0.00005
	(A * C * D * Y)	-0.00000	-0.00000	-0.00000
	(A * C * D * Y)	-0.00027	-0.00027	-0.00027
	(A * C * !D * Y)	0.00000	0.00000	0.00000
	(A * C * !D * Y)	0.00005	0.00005	0.00005
	(A * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(A * C * !D * Y)	-0.00027	-0.00027	-0.00027
	(A * !C * D * Y)	0.00000	0.00000	0.00000
	(A * !C * D * Y)	0.00005	0.00005	0.00005
	(A * !C * D * Y)	-0.00000	-0.00000	-0.00000
	(A * !C * D * Y)	-0.00027	-0.00027	-0.00027
	(A * !C * !D * Y)	-0.00000	0.00000	0.00000
	(A * !C * !D * Y)	0.00005	0.00005	0.00005
	(A * !C * !D * Y)	-0.00000	-0.00000	-0.00000
	(A * !C * !D * Y)	-0.00027	-0.00027	-0.00027
	(!A * C * D * Y)	0.00009	0.00009	0.00009
	(!A * C * D * Y)	0.00002	0.00002	0.00002
	(!A * C * D * Y)	-0.00000	-0.00000	-0.00000
	(!A * C * D * Y)	-0.00027	-0.00027	-0.00026
	(!A * C * !D * Y)	0.00009	0.00009	0.00009
	(!A * C * !D * Y)	0.00002	0.00002	0.00002
	(!A * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(!A * C * !D * Y)	-0.00027	-0.00027	-0.00027
	(!A * !C * D * Y)	0.00008	0.00009	0.00009
	(!A * !C * D * Y)	0.00002	0.00002	0.00002
	(!A * !C * D * Y)	-0.00000	-0.00000	-0.00000
	(!A * !C * D * Y)	-0.00027	-0.00027	-0.00027

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X1H7H	(B * D * Y)	-0.00000	-0.00000	0.00000
	(B * D * Y)	-0.00005	-0.00005	-0.00005
	(B * D * Y)	0.00000	0.00000	0.00000
	(B * D * Y)	0.00026	0.00026	0.00026
	(B * !D * Y)	-0.00000	-0.00000	0.00000
	(B * !D * Y)	-0.00005	-0.00005	-0.00004
	(B * !D * Y)	0.00000	0.00000	0.00000
	(B * !D * Y)	0.00026	0.00026	0.00026
	(A * !B * D * Y)	-0.00000	-0.00000	-0.00000
	(A * !B * D * Y)	-0.00005	-0.00005	-0.00005
	(A * !B * D * Y)	0.00000	0.00000	0.00000
	(A * !B * D * Y)	0.00026	0.00026	0.00026
	(A * !B * !D * Y)	-0.00000	-0.00000	0.00000
	(A * !B * !D * Y)	-0.00004	-0.00004	-0.00003
	(A * !B * !D * Y)	0.00000	0.00000	0.00000
	(A * !B * !D * Y)	0.00026	0.00026	0.00026
	(!A * !B * D * Y)	-0.00009	-0.00008	-0.00007
	(!A * !B * D * Y)	-0.00002	-0.00002	-0.00002
	(!A * !B * D * Y)	0.00000	0.00000	0.00000
	(!A * !B * D * Y)	0.00026	0.00026	0.00027

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X1H7H	(B * D * Y)	0.00000	0.00000	0.00000
	(B * D * Y)	0.00005	0.00005	0.00005
	(B * D * Y)	-0.00000	-0.00000	-0.00000
	(B * D * Y)	-0.00026	-0.00026	-0.00026
	(B * !D * Y)	0.00000	0.00000	0.00000
	(B * !D * Y)	0.00005	0.00005	0.00005
	(B * !D * Y)	-0.00000	-0.00000	-0.00000
	(B * !D * Y)	-0.00026	-0.00026	-0.00026
	(A * !B * D * Y)	0.00000	0.00000	0.00000
	(A * !B * D * Y)	0.00005	0.00005	0.00005
	(A * !B * D * Y)	-0.00000	-0.00000	-0.00000
	(A * !B * D * Y)	-0.00026	-0.00026	-0.00026
	(A * !B * !D * Y)	0.00000	0.00000	0.00001
	(A * !B * !D * Y)	0.00003	0.00004	0.00005
	(A * !B * !D * Y)	-0.00000	-0.00000	-0.00000
	(A * !B * !D * Y)	-0.00026	-0.00026	-0.00025
	(!A * !B * D * Y)	0.00009	0.00009	0.00009
	(!A * !B * D * Y)	0.00002	0.00002	0.00002
	(!A * !B * D * Y)	-0.00000	-0.00000	-0.00000
	(!A * !B * D * Y)	-0.00026	-0.00026	-0.00025

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X1H7H	(C * Y)	-0.00000	-0.00000	0.00000
	(C * Y)	-0.00003	-0.00003	-0.00003
	(C * Y)	0.00000	0.00000	0.00000
	(C * Y)	0.00034	0.00034	0.00034
	(B * !C * Y)	-0.00000	-0.00000	-0.00000
	(B * !C * Y)	-0.00003	-0.00003	-0.00003
	(B * !C * Y)	0.00000	0.00000	0.00000
	(B * !C * Y)	0.00034	0.00034	0.00034
	(A * !B * !C * Y)	-0.00000	-0.00000	0.00000
	(A * !B * !C * Y)	-0.00003	-0.00003	-0.00002
	(A * !B * !C * Y)	0.00000	0.00000	0.00000
	(A * !B * !C * Y)	0.00033	0.00034	0.00034

Passive power(pJ) for D falling (conditional):

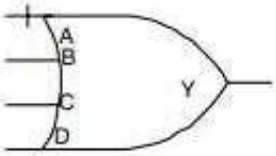
Cell Name	When	Power(pJ)		
		min	avg	max
OR4X1H7H	(C * Y)	0.00000	0.00000	0.00000
	(C * Y)	0.00003	0.00003	0.00003
	(C * Y)	-0.00000	-0.00000	-0.00000
	(C * Y)	-0.00034	-0.00034	-0.00033
	(B * !C * Y)	0.00000	0.00000	0.00000
	(B * !C * Y)	0.00003	0.00003	0.00003
	(B * !C * Y)	-0.00000	-0.00000	-0.00000
	(B * !C * Y)	-0.00034	-0.00034	-0.00033
	(A * !B * !C * Y)	0.00000	0.00000	0.00001
	(A * !B * !C * Y)	0.00002	0.00003	0.00003
	(A * !B * !C * Y)	-0.00000	-0.00000	-0.00000
	(A * !B * !C * Y)	-0.00034	-0.00034	-0.00033

OR4X1P4H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OR4 cell provides the logical OR of four inputs (A, B, C, D). The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A	B	C	D	Y
0	0	0	0	0
0	0	x	1	1
0	x	1	x	1
x	1	x	x	1
1	x	x	x	1

Footprint

Cell Name	Area
OR4X1P4H7H	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A	B	C	D	Y
OR4X1P4H7H	0.00088	0.00083	0.00081	0.00086	0.04723

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OR4X1P4H7H	0.00000	0.02197	0.02429

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR4X1P4H7H	A->Y (RR)	0.05840	0.23539	0.66581
	B->Y (RR)	0.05684	0.23234	0.65879
	C->Y (RR)	0.05497	0.22904	0.65154
	D->Y (RR)	0.05309	0.22559	0.64429

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR4X1P4H7H	A->Y (FF)	0.21883	0.38033	0.74842
	B->Y (FF)	0.21207	0.37688	0.75686
	C->Y (FF)	0.20273	0.37064	0.76267
	D->Y (FF)	0.18971	0.35279	0.73722

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR4X1P4H7H	A	0.00052	0.00059	0.00066
	A	0.00011	0.00011	0.00011
	A	-0.00006	-0.00006	-0.00006
	A	0.00185	0.00193	0.00200
	B	0.00053	0.00060	0.00067
	B	0.00007	0.00007	0.00007
	B	-0.00006	-0.00006	-0.00006
	B	0.00173	0.00180	0.00187
	C	0.00053	0.00061	0.00067
	C	0.00003	0.00003	0.00003
	C	-0.00006	-0.00006	-0.00006
	C	0.00162	0.00169	0.00175
	D	0.00054	0.00061	0.00068
	D	-0.00002	-0.00002	-0.00002
	D	-0.00006	-0.00006	-0.00006
	D	0.00153	0.00161	0.00167

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR4X1P4H7H	A	0.00202	0.00209	0.00217
	A	-0.00011	-0.00011	-0.00011
	A	0.00006	0.00006	0.00006
	A	0.00060	0.00066	0.00075
	B	0.00187	0.00194	0.00201
	B	-0.00007	-0.00007	-0.00007
	B	0.00006	0.00006	0.00007
	B	0.00062	0.00068	0.00076
	C	0.00173	0.00179	0.00186
	C	-0.00003	-0.00003	-0.00003
	C	0.00006	0.00006	0.00006
	C	0.00062	0.00068	0.00076
	D	0.00159	0.00165	0.00173
	D	0.00002	0.00002	0.00002
	D	0.00006	0.00006	0.00006
	D	0.00059	0.00065	0.00073

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X1P4H7H	(B * D * Y)	-0.00009	-0.00008	-0.00007
	(B * D * Y)	-0.00002	-0.00002	-0.00002
	(B * D * Y)	0.00000	0.00000	0.00000
	(B * D * Y)	0.00030	0.00031	0.00031
	(B * C * !D * Y)	-0.00009	-0.00008	-0.00007
	(B * C * !D * Y)	-0.00002	-0.00002	-0.00002
	(B * C * !D * Y)	0.00000	0.00000	0.00000
	(B * C * !D * Y)	0.00031	0.00031	0.00031
	(B * !C * !D * Y)	-0.00009	-0.00008	-0.00007
	(B * !C * !D * Y)	-0.00002	-0.00002	-0.00002
	(B * !C * !D * Y)	0.00000	0.00000	0.00000
	(B * !C * !D * Y)	0.00030	0.00031	0.00031
	(!B * C * D * Y)	-0.00008	-0.00008	-0.00006
	(!B * C * D * Y)	-0.00002	-0.00002	-0.00001
	(!B * C * D * Y)	0.00000	0.00000	0.00000
	(!B * C * D * Y)	0.00031	0.00031	0.00031
	(!B * C * !D * Y)	-0.00008	-0.00007	-0.00006
	(!B * C * !D * Y)	-0.00002	-0.00002	-0.00002
	(!B * C * !D * Y)	0.00000	0.00000	0.00000
	(!B * C * !D * Y)	0.00030	0.00031	0.00031
	(!B * !C * D * Y)	-0.00008	-0.00007	-0.00006
	(!B * !C * D * Y)	-0.00002	-0.00002	-0.00001
	(!B * !C * D * Y)	0.00000	0.00000	0.00000
	(!B * !C * D * Y)	0.00030	0.00031	0.00031

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X1P4H7H	(B * D * Y)	0.00009	0.00009	0.00009
	(B * D * Y)	0.00002	0.00002	0.00002
	(B * D * Y)	-0.00000	-0.00000	-0.00000
	(B * D * Y)	-0.00031	-0.00031	-0.00030
	(B * C * !D * Y)	0.00009	0.00009	0.00009
	(B * C * !D * Y)	0.00002	0.00002	0.00002
	(B * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(B * C * !D * Y)	-0.00031	-0.00031	-0.00030
	(B * !C * !D * Y)	0.00009	0.00009	0.00009
	(B * !C * !D * Y)	0.00002	0.00002	0.00002
	(B * !C * !D * Y)	-0.00000	-0.00000	-0.00000
	(B * !C * !D * Y)	-0.00031	-0.00030	-0.00030
	(!B * C * D * Y)	0.00008	0.00009	0.00009
	(!B * C * D * Y)	0.00001	0.00002	0.00002
	(!B * C * D * Y)	-0.00000	-0.00000	-0.00000
	(!B * C * D * Y)	-0.00031	-0.00031	-0.00031
	(!B * C * !D * Y)	0.00008	0.00008	0.00008
	(!B * C * !D * Y)	0.00002	0.00002	0.00002
	(!B * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(!B * C * !D * Y)	-0.00031	-0.00031	-0.00030
	(!B * !C * D * Y)	0.00008	0.00008	0.00008
	(!B * !C * D * Y)	0.00001	0.00002	0.00002
	(!B * !C * D * Y)	-0.00000	-0.00000	-0.00000
	(!B * !C * D * Y)	-0.00031	-0.00031	-0.00030

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X1P4H7H	(A * C * D * Y)	-0.00000	-0.00000	-0.00000
	(A * C * D * Y)	-0.00006	-0.00006	-0.00005
	(A * C * D * Y)	0.00000	0.00000	0.00000
	(A * C * D * Y)	0.00026	0.00027	0.00027
	(A * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(A * C * !D * Y)	-0.00005	-0.00005	-0.00005
	(A * C * !D * Y)	0.00000	0.00000	0.00000
	(A * C * !D * Y)	0.00027	0.00027	0.00027
	(A * !C * D * Y)	-0.00000	-0.00000	0.00000
	(A * !C * D * Y)	-0.00005	-0.00005	-0.00005
	(A * !C * D * Y)	0.00000	0.00000	0.00000
	(A * !C * D * Y)	0.00026	0.00027	0.00027
	(A * !C * !D * Y)	-0.00000	-0.00000	0.00000
	(A * !C * !D * Y)	-0.00005	-0.00005	-0.00004
	(A * !C * !D * Y)	0.00000	0.00000	0.00000
	(A * !C * !D * Y)	0.00027	0.00027	0.00027
	(!A * C * D * Y)	-0.00009	-0.00008	-0.00007
	(!A * C * D * Y)	-0.00002	-0.00002	-0.00002
	(!A * C * D * Y)	0.00000	0.00000	0.00000
	(!A * C * D * Y)	0.00026	0.00027	0.00027
	(!A * C * !D * Y)	-0.00009	-0.00008	-0.00007
	(!A * C * !D * Y)	-0.00002	-0.00002	-0.00002
	(!A * C * !D * Y)	0.00000	0.00000	0.00000
	(!A * C * !D * Y)	0.00026	0.00026	0.00027
	(!A * !C * D * Y)	-0.00009	-0.00007	-0.00006
	(!A * !C * D * Y)	-0.00002	-0.00002	-0.00002
	(!A * !C * D * Y)	0.00000	0.00000	0.00000
	(!A * !C * D * Y)	0.00026	0.00026	0.00027

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X1P4H7H	(A * C * D * Y)	0.00000	0.00000	0.00000
	(A * C * D * Y)	0.00005	0.00006	0.00006
	(A * C * D * Y)	-0.00000	-0.00000	-0.00000
	(A * C * D * Y)	-0.00027	-0.00027	-0.00026
	(A * C * !D * Y)	0.00000	0.00000	0.00000
	(A * C * !D * Y)	0.00005	0.00005	0.00005
	(A * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(A * C * !D * Y)	-0.00027	-0.00027	-0.00027
	(A * !C * D * Y)	0.00000	0.00000	0.00000
	(A * !C * D * Y)	0.00005	0.00005	0.00005
	(A * !C * D * Y)	-0.00000	-0.00000	-0.00000
	(A * !C * D * Y)	-0.00027	-0.00027	-0.00026
	(A * !C * !D * Y)	0.00000	0.00000	0.00000
	(A * !C * !D * Y)	0.00005	0.00005	0.00005
	(A * !C * !D * Y)	-0.00000	-0.00000	-0.00000
	(A * !C * !D * Y)	-0.00027	-0.00027	-0.00027
	(!A * C * D * Y)	0.00009	0.00009	0.00009
	(!A * C * D * Y)	0.00002	0.00002	0.00002
	(!A * C * D * Y)	-0.00000	-0.00000	-0.00000
	(!A * C * D * Y)	-0.00027	-0.00026	-0.00026
	(!A * C * !D * Y)	0.00009	0.00009	0.00009
	(!A * C * !D * Y)	0.00002	0.00002	0.00002
	(!A * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(!A * C * !D * Y)	-0.00027	-0.00026	-0.00026
	(!A * !C * D * Y)	0.00009	0.00009	0.00009
	(!A * !C * D * Y)	0.00002	0.00002	0.00002
	(!A * !C * D * Y)	-0.00000	-0.00000	-0.00000
	(!A * !C * D * Y)	-0.00027	-0.00026	-0.00026

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X1P4H7H	(B * D * Y)	-0.00000	-0.00000	0.00000
	(B * D * Y)	-0.00005	-0.00006	-0.00005
	(B * D * Y)	0.00000	0.00000	0.00000
	(B * D * Y)	0.00026	0.00026	0.00026
	(B * !D * Y)	-0.00000	-0.00000	0.00000
	(B * !D * Y)	-0.00005	-0.00005	-0.00005
	(B * !D * Y)	0.00000	0.00000	0.00000
	(B * !D * Y)	0.00026	0.00026	0.00026
	(A * !B * D * Y)	-0.00000	-0.00000	-0.00000
	(A * !B * D * Y)	-0.00006	-0.00006	-0.00005
	(A * !B * D * Y)	0.00000	0.00000	0.00000
	(A * !B * D * Y)	0.00026	0.00026	0.00026
	(A * !B * !D * Y)	-0.00000	-0.00000	0.00000
	(A * !B * !D * Y)	-0.00004	-0.00004	-0.00004
	(A * !B * !D * Y)	0.00000	0.00000	0.00000
	(A * !B * !D * Y)	0.00026	0.00026	0.00026
	(!A * !B * D * Y)	-0.00009	-0.00008	-0.00007
	(!A * !B * D * Y)	-0.00003	-0.00002	-0.00002
	(!A * !B * D * Y)	0.00000	0.00000	0.00000
	(!A * !B * D * Y)	0.00026	0.00026	0.00026

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X1P4H7H	(B * D * Y)	0.00000	0.00000	0.00000
	(B * D * Y)	0.00005	0.00006	0.00005
	(B * D * Y)	-0.00000	-0.00000	-0.00000
	(B * D * Y)	-0.00026	-0.00026	-0.00026
	(B * !D * Y)	0.00000	0.00000	0.00000
	(B * !D * Y)	0.00005	0.00005	0.00005
	(B * !D * Y)	-0.00000	-0.00000	-0.00000
	(B * !D * Y)	-0.00026	-0.00026	-0.00026
	(A * !B * D * Y)	0.00000	0.00000	0.00000
	(A * !B * D * Y)	0.00005	0.00006	0.00006
	(A * !B * D * Y)	-0.00000	-0.00000	-0.00000
	(A * !B * D * Y)	-0.00026	-0.00026	-0.00026
	(A * !B * !D * Y)	0.00000	0.00000	0.00000
	(A * !B * !D * Y)	0.00004	0.00005	0.00005
	(A * !B * !D * Y)	-0.00000	-0.00000	-0.00000
	(A * !B * !D * Y)	-0.00026	-0.00026	-0.00025
	(!A * !B * D * Y)	0.00009	0.00009	0.00009
	(!A * !B * D * Y)	0.00002	0.00002	0.00003
	(!A * !B * D * Y)	-0.00000	-0.00000	-0.00000
	(!A * !B * D * Y)	-0.00026	-0.00026	-0.00025

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X1P4H7H	(C * Y)	-0.00000	-0.00000	0.00000
	(C * Y)	-0.00003	-0.00003	-0.00003
	(C * Y)	0.00000	0.00000	0.00000
	(C * Y)	0.00033	0.00034	0.00034
	(B * !C * Y)	-0.00000	-0.00000	-0.00000
	(B * !C * Y)	-0.00003	-0.00003	-0.00003
	(B * !C * Y)	0.00000	0.00000	0.00000
	(B * !C * Y)	0.00033	0.00033	0.00034
	(A * !B * !C * Y)	-0.00000	-0.00000	0.00000
	(A * !B * !C * Y)	-0.00003	-0.00003	-0.00002
	(A * !B * !C * Y)	0.00000	0.00000	0.00000
	(A * !B * !C * Y)	0.00033	0.00033	0.00034

Passive power(pJ) for D falling (conditional):

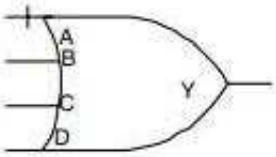
Cell Name	When	Power(pJ)		
		min	avg	max
OR4X1P4H7H	(C * Y)	0.00000	0.00000	0.00000
	(C * Y)	0.00003	0.00003	0.00003
	(C * Y)	-0.00000	-0.00000	-0.00000
	(C * Y)	-0.00033	-0.00033	-0.00033
	(B * !C * Y)	0.00000	0.00000	0.00000
	(B * !C * Y)	0.00003	0.00003	0.00003
	(B * !C * Y)	-0.00000	-0.00000	-0.00000
	(B * !C * Y)	-0.00034	-0.00033	-0.00033
	(A * !B * !C * Y)	0.00000	0.00000	0.00001
	(A * !B * !C * Y)	0.00002	0.00003	0.00003
	(A * !B * !C * Y)	-0.00000	-0.00000	-0.00000
	(A * !B * !C * Y)	-0.00033	-0.00033	-0.00033

OR4X2H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OR4 cell provides the logical OR of four inputs (A, B, C, D). The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A	B	C	D	Y
0	0	0	0	0
0	0	x	1	1
0	x	1	x	1
x	1	x	x	1
1	x	x	x	1

Footprint

Cell Name	Area
OR4X2H7H	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A	B	C	D	Y
OR4X2H7H	0.00092	0.00087	0.00083	0.00083	0.06067

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OR4X2H7H	0.00000	0.01445	0.02754

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR4X2H7H	A->Y (RR)	0.06628	0.24756	0.68870
	B->Y (RR)	0.06469	0.24470	0.68249
	C->Y (RR)	0.06228	0.24113	0.67491
	D->Y (RR)	0.06015	0.23769	0.66870

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR4X2H7H	A->Y (FF)	0.25447	0.41983	0.78833
	B->Y (FF)	0.24763	0.41667	0.79810
	C->Y (FF)	0.23622	0.40883	0.80363
	D->Y (FF)	0.22170	0.38991	0.77978

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR4X2H7H	A	0.00081	0.00090	0.00100
	A	0.00011	0.00011	0.00011
	A	-0.00005	-0.00005	-0.00004
	A	0.00217	0.00227	0.00237
	B	0.00082	0.00091	0.00101
	B	0.00007	0.00007	0.00007
	B	-0.00005	-0.00005	-0.00005
	B	0.00203	0.00213	0.00223
	C	0.00083	0.00092	0.00101
	C	0.00002	0.00003	0.00003
	C	-0.00006	-0.00005	-0.00005
	C	0.00191	0.00201	0.00210
	D	0.00083	0.00093	0.00102
	D	-0.00002	-0.00002	0.00000
	D	-0.00005	-0.00005	-0.00005
	D	0.00182	0.00192	0.00201

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR4X2H7H	A	0.00244	0.00252	0.00263
	A	-0.00011	-0.00011	-0.00011
	A	0.00005	0.00005	0.00006
	A	0.00100	0.00107	0.00118
	B	0.00230	0.00237	0.00247
	B	-0.00007	-0.00007	-0.00007
	B	0.00005	0.00005	0.00006
	B	0.00103	0.00110	0.00120
	C	0.00214	0.00220	0.00230
	C	-0.00003	-0.00003	-0.00002
	C	0.00005	0.00005	0.00006
	C	0.00103	0.00109	0.00119
	D	0.00199	0.00206	0.00215
	D	0.00000	0.00002	0.00002
	D	0.00005	0.00005	0.00006
	D	0.00100	0.00107	0.00117

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X2H7H	(B * D * Y)	-0.00009	-0.00008	-0.00007
	(B * D * Y)	-0.00002	-0.00002	-0.00002
	(B * D * Y)	0.00000	0.00000	0.00000
	(B * D * Y)	0.00033	0.00033	0.00033
	(B * C * !D * Y)	-0.00009	-0.00008	-0.00007
	(B * C * !D * Y)	-0.00002	-0.00002	-0.00002
	(B * C * !D * Y)	0.00000	0.00000	0.00000
	(B * C * !D * Y)	0.00033	0.00033	0.00033
	(B * !C * !D * Y)	-0.00009	-0.00008	-0.00007
	(B * !C * !D * Y)	-0.00002	-0.00002	-0.00002
	(B * !C * !D * Y)	0.00000	0.00000	0.00000
	(B * !C * !D * Y)	0.00032	0.00033	0.00033
	(!B * C * D * Y)	-0.00008	-0.00008	-0.00006
	(!B * C * D * Y)	-0.00002	-0.00002	-0.00002
	(!B * C * D * Y)	0.00000	0.00000	0.00000
	(!B * C * D * Y)	0.00033	0.00033	0.00033
	(!B * C * !D * Y)	-0.00009	-0.00008	-0.00006
	(!B * C * !D * Y)	-0.00002	-0.00002	-0.00002
	(!B * C * !D * Y)	0.00000	0.00000	0.00000
	(!B * C * !D * Y)	0.00032	0.00033	0.00033
	(!B * !C * D * Y)	-0.00008	-0.00007	-0.00006
	(!B * !C * D * Y)	-0.00003	-0.00002	-0.00002
	(!B * !C * D * Y)	0.00000	0.00000	0.00000
	(!B * !C * D * Y)	0.00032	0.00033	0.00033

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X2H7H	(B * D * Y)	0.00009	0.00009	0.00009
	(B * D * Y)	0.00002	0.00002	0.00002
	(B * D * Y)	-0.00000	-0.00000	-0.00000
	(B * D * Y)	-0.00033	-0.00033	-0.00032
	(B * C * !D * Y)	0.00009	0.00009	0.00009
	(B * C * !D * Y)	0.00002	0.00002	0.00002
	(B * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(B * C * !D * Y)	-0.00033	-0.00033	-0.00033
	(B * !C * !D * Y)	0.00009	0.00009	0.00009
	(B * !C * !D * Y)	0.00002	0.00002	0.00002
	(B * !C * !D * Y)	-0.00000	-0.00000	-0.00000
	(B * !C * !D * Y)	-0.00033	-0.00033	-0.00032
	(!B * C * D * Y)	0.00008	0.00009	0.00009
	(!B * C * D * Y)	0.00002	0.00002	0.00002
	(!B * C * D * Y)	-0.00000	-0.00000	-0.00000
	(!B * C * D * Y)	-0.00033	-0.00033	-0.00033
	(!B * C * !D * Y)	0.00008	0.00009	0.00009
	(!B * C * !D * Y)	0.00002	0.00002	0.00002
	(!B * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(!B * C * !D * Y)	-0.00033	-0.00033	-0.00032
	(!B * !C * D * Y)	0.00008	0.00008	0.00009
	(!B * !C * D * Y)	0.00002	0.00002	0.00003
	(!B * !C * D * Y)	-0.00000	-0.00000	-0.00000
	(!B * !C * D * Y)	-0.00033	-0.00033	-0.00032

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X2H7H	(A * C * D * Y)	-0.00000	-0.00000	0.00000
	(A * C * D * Y)	-0.00006	-0.00006	-0.00006
	(A * C * D * Y)	0.00000	0.00000	0.00000
	(A * C * D * Y)	0.00027	0.00027	0.00028
	(A * C * !D * Y)	-0.00000	-0.00000	0.00000
	(A * C * !D * Y)	-0.00006	-0.00006	-0.00006
	(A * C * !D * Y)	0.00000	0.00000	0.00000
	(A * C * !D * Y)	0.00027	0.00027	0.00028
	(A * !C * D * Y)	-0.00000	-0.00000	0.00000
	(A * !C * D * Y)	-0.00006	-0.00006	-0.00006
	(A * !C * D * Y)	0.00000	0.00000	0.00000
	(A * !C * D * Y)	0.00027	0.00028	0.00028
	(A * !C * !D * Y)	-0.00000	-0.00000	0.00000
	(A * !C * !D * Y)	-0.00005	-0.00005	-0.00005
	(A * !C * !D * Y)	0.00000	0.00000	0.00000
	(A * !C * !D * Y)	0.00027	0.00027	0.00028
	(!A * C * D * Y)	-0.00010	-0.00009	-0.00007
	(!A * C * D * Y)	-0.00002	-0.00002	-0.00002
	(!A * C * D * Y)	0.00000	0.00000	0.00000
	(!A * C * D * Y)	0.00027	0.00027	0.00027
	(!A * C * !D * Y)	-0.00010	-0.00009	-0.00007
	(!A * C * !D * Y)	-0.00003	-0.00002	-0.00002
	(!A * C * !D * Y)	0.00000	0.00000	0.00000
	(!A * C * !D * Y)	0.00027	0.00027	0.00027
	(!A * !C * D * Y)	-0.00009	-0.00008	-0.00006
	(!A * !C * D * Y)	-0.00002	-0.00002	-0.00002
	(!A * !C * D * Y)	0.00000	0.00000	0.00000
	(!A * !C * D * Y)	0.00027	0.00027	0.00027

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X2H7H	(A * C * D * Y)	0.00000	0.00000	0.00000
	(A * C * D * Y)	0.00006	0.00006	0.00006
	(A * C * D * Y)	-0.00000	-0.00000	-0.00000
	(A * C * D * Y)	-0.00027	-0.00027	-0.00027
	(A * C * !D * Y)	0.00000	0.00000	0.00000
	(A * C * !D * Y)	0.00006	0.00006	0.00006
	(A * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(A * C * !D * Y)	-0.00027	-0.00027	-0.00027
	(A * !C * D * Y)	0.00000	0.00000	0.00000
	(A * !C * D * Y)	0.00006	0.00006	0.00006
	(A * !C * D * Y)	-0.00000	-0.00000	-0.00000
	(A * !C * D * Y)	-0.00028	-0.00027	-0.00027
	(A * !C * !D * Y)	0.00000	0.00000	0.00000
	(A * !C * !D * Y)	0.00005	0.00005	0.00005
	(A * !C * !D * Y)	-0.00000	-0.00000	-0.00000
	(A * !C * !D * Y)	-0.00028	-0.00027	-0.00027
	(!A * C * D * Y)	0.00009	0.00010	0.00010
	(!A * C * D * Y)	0.00002	0.00002	0.00002
	(!A * C * D * Y)	-0.00000	-0.00000	-0.00000
	(!A * C * D * Y)	-0.00027	-0.00027	-0.00027
	(!A * C * !D * Y)	0.00009	0.00010	0.00010
	(!A * C * !D * Y)	0.00002	0.00002	0.00003
	(!A * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(!A * C * !D * Y)	-0.00027	-0.00027	-0.00027
	(!A * !C * D * Y)	0.00009	0.00009	0.00009
	(!A * !C * D * Y)	0.00002	0.00002	0.00002
	(!A * !C * D * Y)	-0.00000	-0.00000	-0.00000
	(!A * !C * D * Y)	-0.00027	-0.00027	-0.00027

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X2H7H	(B * D * Y)	-0.00000	-0.00000	0.00000
	(B * D * Y)	-0.00005	-0.00005	-0.00005
	(B * D * Y)	0.00000	0.00000	0.00000
	(B * D * Y)	0.00027	0.00027	0.00027
	(B * !D * Y)	-0.00000	-0.00000	0.00000
	(B * !D * Y)	-0.00004	-0.00004	-0.00004
	(B * !D * Y)	0.00000	0.00000	0.00000
	(B * !D * Y)	0.00027	0.00027	0.00027
	(A * !B * D * Y)	-0.00000	-0.00000	0.00000
	(A * !B * D * Y)	-0.00005	-0.00005	-0.00005
	(A * !B * D * Y)	0.00000	0.00000	0.00000
	(A * !B * D * Y)	0.00027	0.00027	0.00027
	(A * !B * !D * Y)	-0.00000	-0.00000	0.00000
	(A * !B * !D * Y)	-0.00004	-0.00004	-0.00004
	(A * !B * !D * Y)	0.00000	0.00000	0.00000
	(A * !B * !D * Y)	0.00027	0.00027	0.00027
	(!A * !B * D * Y)	-0.00009	-0.00008	-0.00007
	(!A * !B * D * Y)	-0.00002	-0.00002	-0.00001
	(!A * !B * D * Y)	0.00000	0.00000	0.00000
	(!A * !B * D * Y)	0.00027	0.00027	0.00027

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X2H7H	(B * D * Y)	0.00000	0.00000	0.00000
	(B * D * Y)	0.00005	0.00005	0.00005
	(B * D * Y)	-0.00000	-0.00000	-0.00000
	(B * D * Y)	-0.00027	-0.00027	-0.00026
	(B * !D * Y)	0.00000	0.00000	0.00000
	(B * !D * Y)	0.00004	0.00005	0.00004
	(B * !D * Y)	-0.00000	-0.00000	-0.00000
	(B * !D * Y)	-0.00027	-0.00027	-0.00026
	(A * !B * D * Y)	0.00000	0.00000	0.00000
	(A * !B * D * Y)	0.00005	0.00005	0.00005
	(A * !B * D * Y)	-0.00000	-0.00000	-0.00000
	(A * !B * D * Y)	-0.00027	-0.00027	-0.00026
	(A * !B * !D * Y)	0.00000	0.00000	0.00000
	(A * !B * !D * Y)	0.00004	0.00004	0.00005
	(A * !B * !D * Y)	-0.00000	-0.00000	-0.00000
	(A * !B * !D * Y)	-0.00027	-0.00027	-0.00026
	(!A * !B * D * Y)	0.00009	0.00009	0.00010
	(!A * !B * D * Y)	0.00001	0.00002	0.00002
	(!A * !B * D * Y)	-0.00000	-0.00000	-0.00000
	(!A * !B * D * Y)	-0.00027	-0.00027	-0.00026

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X2H7H	(C * Y)	-0.00000	-0.00000	0.00000
	(C * Y)	-0.00003	-0.00003	-0.00003
	(C * Y)	0.00000	0.00000	0.00001
	(C * Y)	0.00033	0.00033	0.00033
	(B * !C * Y)	-0.00000	-0.00000	-0.00000
	(B * !C * Y)	-0.00003	-0.00003	-0.00003
	(B * !C * Y)	0.00000	0.00000	0.00000
	(B * !C * Y)	0.00033	0.00033	0.00033
	(A * !B * !C * Y)	-0.00000	-0.00000	0.00000
	(A * !B * !C * Y)	-0.00003	-0.00003	-0.00003
	(A * !B * !C * Y)	0.00000	0.00000	0.00000
	(A * !B * !C * Y)	0.00032	0.00033	0.00033

Passive power(pJ) for D falling (conditional):

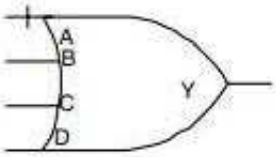
Cell Name	When	Power(pJ)		
		min	avg	max
OR4X2H7H	(C * Y)	0.00000	0.00000	0.00000
	(C * Y)	0.00003	0.00003	0.00003
	(C * Y)	-0.00000	-0.00000	-0.00000
	(C * Y)	-0.00033	-0.00033	-0.00032
	(B * !C * Y)	0.00000	0.00000	0.00000
	(B * !C * Y)	0.00003	0.00003	0.00003
	(B * !C * Y)	-0.00000	-0.00000	-0.00000
	(B * !C * Y)	-0.00033	-0.00033	-0.00033
	(A * !B * !C * Y)	0.00000	0.00000	0.00000
	(A * !B * !C * Y)	0.00003	0.00003	0.00004
	(A * !B * !C * Y)	-0.00000	-0.00000	-0.00000
	(A * !B * !C * Y)	-0.00033	-0.00033	-0.00032

OR4X3H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OR4 cell provides the logical OR of four inputs (A, B, C, D). The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A	B	C	D	Y
0	0	0	0	0
0	0	x	1	1
0	x	1	x	1
x	1	x	x	1
1	x	x	x	1

Footprint

Cell Name	Area
OR4X3H7H	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A	B	C	D	Y
OR4X3H7H	0.00104	0.00094	0.00095	0.00096	0.08648

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OR4X3H7H	0.00000	0.03344	0.05105

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR4X3H7H	A->Y (RR)	0.05725	0.23896	0.68005
	B->Y (RR)	0.05529	0.23563	0.67396
	C->Y (RR)	0.05362	0.23246	0.66717
	D->Y (RR)	0.05146	0.22875	0.65922

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR4X3H7H	A->Y (FF)	0.21648	0.38423	0.75731
	B->Y (FF)	0.20836	0.37963	0.76492
	C->Y (FF)	0.20033	0.37434	0.77165
	D->Y (FF)	0.18581	0.35507	0.74452

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR4X3H7H	A	0.00091	0.00103	0.00114
	A	0.00014	0.00014	0.00014
	A	-0.00007	-0.00007	-0.00006
	A	0.00249	0.00261	0.00272
	B	0.00093	0.00104	0.00115
	B	0.00009	0.00009	0.00009
	B	-0.00007	-0.00007	-0.00006
	B	0.00230	0.00241	0.00252
	C	0.00093	0.00105	0.00115
	C	0.00003	0.00003	0.00004
	C	-0.00007	-0.00007	-0.00003
	C	0.00216	0.00227	0.00238
	D	0.00094	0.00106	0.00116
	D	-0.00004	-0.00003	-0.00003
	D	-0.00007	-0.00007	-0.00006
	D	0.00203	0.00215	0.00225

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR4X3H7H	A	0.00282	0.00291	0.00303
	A	-0.00014	-0.00014	-0.00014
	A	0.00006	0.00007	0.00007
	A	0.00113	0.00122	0.00134
	B	0.00261	0.00270	0.00280
	B	-0.00009	-0.00009	-0.00009
	B	0.00006	0.00007	0.00007
	B	0.00117	0.00125	0.00136
	C	0.00242	0.00251	0.00262
	C	-0.00004	-0.00003	-0.00003
	C	0.00007	0.00007	0.00007
	C	0.00117	0.00125	0.00136
	D	0.00221	0.00230	0.00241
	D	0.00003	0.00003	0.00005
	D	0.00007	0.00007	0.00007
	D	0.00113	0.00121	0.00133

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X3H7H	(B * D * Y)	-0.00012	-0.00011	-0.00009
	(B * D * Y)	-0.00003	-0.00003	-0.00003
	(B * D * Y)	0.00000	0.00001	0.00001
	(B * D * Y)	0.00035	0.00035	0.00035
	(B * C * !D * Y)	-0.00012	-0.00011	-0.00009
	(B * C * !D * Y)	-0.00003	-0.00003	-0.00003
	(B * C * !D * Y)	0.00001	0.00001	0.00001
	(B * C * !D * Y)	0.00035	0.00035	0.00035
	(B * !C * !D * Y)	-0.00012	-0.00011	-0.00009
	(B * !C * !D * Y)	-0.00003	-0.00003	-0.00002
	(B * !C * !D * Y)	0.00000	0.00001	0.00001
	(B * !C * !D * Y)	0.00035	0.00035	0.00035
	(!B * C * D * Y)	-0.00011	-0.00010	-0.00008
	(!B * C * D * Y)	-0.00003	-0.00003	-0.00002
	(!B * C * D * Y)	0.00000	0.00001	0.00001
	(!B * C * D * Y)	0.00035	0.00035	0.00035
	(!B * C * !D * Y)	-0.00011	-0.00010	-0.00008
	(!B * C * !D * Y)	-0.00003	-0.00002	-0.00001
	(!B * C * !D * Y)	0.00000	0.00001	0.00001
	(!B * C * !D * Y)	0.00035	0.00035	0.00035
	(!B * !C * D * Y)	-0.00011	-0.00010	-0.00008
	(!B * !C * D * Y)	-0.00004	-0.00003	-0.00002
	(!B * !C * D * Y)	0.00000	0.00001	0.00001
	(!B * !C * D * Y)	0.00035	0.00035	0.00035

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X3H7H	(B * D * Y)	0.00012	0.00012	0.00012
	(B * D * Y)	0.00003	0.00003	0.00003
	(B * D * Y)	-0.00001	-0.00001	-0.00000
	(B * D * Y)	-0.00035	-0.00035	-0.00035
	(B * C * !D * Y)	0.00012	0.00012	0.00012
	(B * C * !D * Y)	0.00003	0.00003	0.00003
	(B * C * !D * Y)	-0.00001	-0.00001	-0.00001
	(B * C * !D * Y)	-0.00035	-0.00035	-0.00035
	(B * !C * !D * Y)	0.00012	0.00012	0.00012
	(B * !C * !D * Y)	0.00002	0.00003	0.00003
	(B * !C * !D * Y)	-0.00001	-0.00001	-0.00000
	(B * !C * !D * Y)	-0.00035	-0.00035	-0.00035
	(!B * C * D * Y)	0.00011	0.00012	0.00012
	(!B * C * D * Y)	0.00002	0.00003	0.00003
	(!B * C * D * Y)	-0.00001	-0.00001	-0.00000
	(!B * C * D * Y)	-0.00035	-0.00035	-0.00035
	(!B * C * !D * Y)	0.00011	0.00012	0.00013
	(!B * C * !D * Y)	0.00001	0.00002	0.00003
	(!B * C * !D * Y)	-0.00001	-0.00001	-0.00000
	(!B * C * !D * Y)	-0.00035	-0.00035	-0.00035
	(!B * !C * D * Y)	0.00010	0.00011	0.00011
	(!B * !C * D * Y)	0.00002	0.00003	0.00004
	(!B * !C * D * Y)	-0.00001	-0.00001	-0.00000
	(!B * !C * D * Y)	-0.00035	-0.00035	-0.00035

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X3H7H	(A * C * D * Y)	-0.00000	-0.00000	0.00000
	(A * C * D * Y)	-0.00007	-0.00007	-0.00007
	(A * C * D * Y)	0.00000	0.00001	0.00001
	(A * C * D * Y)	0.00027	0.00028	0.00028
	(A * C * !D * Y)	-0.00000	-0.00000	0.00000
	(A * C * !D * Y)	-0.00007	-0.00007	-0.00007
	(A * C * !D * Y)	0.00000	0.00001	0.00001
	(A * C * !D * Y)	0.00027	0.00028	0.00028
	(A * !C * D * Y)	-0.00000	-0.00000	0.00000
	(A * !C * D * Y)	-0.00007	-0.00007	-0.00007
	(A * !C * D * Y)	0.00000	0.00001	0.00001
	(A * !C * D * Y)	0.00027	0.00028	0.00028
	(A * !C * !D * Y)	-0.00000	-0.00000	0.00000
	(A * !C * !D * Y)	-0.00006	-0.00006	-0.00006
	(A * !C * !D * Y)	0.00000	0.00001	0.00001
	(A * !C * !D * Y)	0.00028	0.00028	0.00028
	(!A * C * D * Y)	-0.00012	-0.00011	-0.00009
	(!A * C * D * Y)	-0.00003	-0.00003	-0.00003
	(!A * C * D * Y)	0.00000	0.00001	0.00001
	(!A * C * D * Y)	0.00028	0.00028	0.00028
	(!A * C * !D * Y)	-0.00012	-0.00011	-0.00009
	(!A * C * !D * Y)	-0.00003	-0.00003	-0.00002
	(!A * C * !D * Y)	0.00000	0.00001	0.00001
	(!A * C * !D * Y)	0.00027	0.00028	0.00028
	(!A * !C * D * Y)	-0.00012	-0.00010	-0.00008
	(!A * !C * D * Y)	-0.00003	-0.00003	-0.00002
	(!A * !C * D * Y)	0.00000	0.00001	0.00001
	(!A * !C * D * Y)	0.00027	0.00028	0.00028

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X3H7H	(A * C * D * Y)	0.00000	0.00000	0.00000
	(A * C * D * Y)	0.00007	0.00007	0.00007
	(A * C * D * Y)	-0.00001	-0.00001	-0.00000
	(A * C * D * Y)	-0.00028	-0.00028	-0.00027
	(A * C * !D * Y)	0.00000	0.00000	0.00000
	(A * C * !D * Y)	0.00007	0.00007	0.00007
	(A * C * !D * Y)	-0.00001	-0.00001	-0.00000
	(A * C * !D * Y)	-0.00028	-0.00028	-0.00027
	(A * !C * D * Y)	0.00000	0.00000	0.00000
	(A * !C * D * Y)	0.00007	0.00007	0.00007
	(A * !C * D * Y)	-0.00001	-0.00001	-0.00000
	(A * !C * D * Y)	-0.00028	-0.00028	-0.00027
	(A * !C * !D * Y)	0.00000	0.00000	0.00000
	(A * !C * !D * Y)	0.00006	0.00006	0.00006
	(A * !C * !D * Y)	-0.00001	-0.00001	-0.00000
	(A * !C * !D * Y)	-0.00028	-0.00028	-0.00027
	(!A * C * D * Y)	0.00012	0.00012	0.00012
	(!A * C * D * Y)	0.00003	0.00003	0.00003
	(!A * C * D * Y)	-0.00001	-0.00001	-0.00000
	(!A * C * D * Y)	-0.00028	-0.00028	-0.00027
	(!A * C * !D * Y)	0.00012	0.00012	0.00012
	(!A * C * !D * Y)	0.00002	0.00003	0.00003
	(!A * C * !D * Y)	-0.00001	-0.00001	-0.00000
	(!A * C * !D * Y)	-0.00028	-0.00028	-0.00027
	(!A * !C * D * Y)	0.00012	0.00012	0.00012
	(!A * !C * D * Y)	0.00002	0.00003	0.00003
	(!A * !C * D * Y)	-0.00001	-0.00001	-0.00000
	(!A * !C * D * Y)	-0.00028	-0.00028	-0.00027

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X3H7H	(B * D * Y)	-0.00000	-0.00000	-0.00000
	(B * D * Y)	-0.00007	-0.00007	-0.00007
	(B * D * Y)	0.00000	0.00001	0.00001
	(B * D * Y)	0.00028	0.00029	0.00029
	(B * !D * Y)	-0.00000	-0.00000	0.00000
	(B * !D * Y)	-0.00006	-0.00006	-0.00006
	(B * !D * Y)	0.00001	0.00001	0.00001
	(B * !D * Y)	0.00028	0.00028	0.00029
	(A * !B * D * Y)	-0.00000	-0.00000	0.00000
	(A * !B * D * Y)	-0.00007	-0.00007	-0.00007
	(A * !B * D * Y)	0.00000	0.00001	0.00001
	(A * !B * D * Y)	0.00028	0.00028	0.00029
	(A * !B * !D * Y)	-0.00000	-0.00000	0.00000
	(A * !B * !D * Y)	-0.00006	-0.00006	-0.00006
	(A * !B * !D * Y)	0.00000	0.00001	0.00001
	(A * !B * !D * Y)	0.00028	0.00028	0.00029
	(!A * !B * D * Y)	-0.00013	-0.00011	-0.00009
	(!A * !B * D * Y)	-0.00003	-0.00002	-0.00001
	(!A * !B * D * Y)	0.00000	0.00001	0.00001
	(!A * !B * D * Y)	0.00028	0.00028	0.00029

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X3H7H	(B * D * Y)	0.00000	0.00000	0.00000
	(B * D * Y)	0.00007	0.00007	0.00007
	(B * D * Y)	-0.00001	-0.00001	-0.00000
	(B * D * Y)	-0.00029	-0.00028	-0.00028
	(B * !D * Y)	0.00000	0.00000	0.00000
	(B * !D * Y)	0.00006	0.00006	0.00006
	(B * !D * Y)	-0.00001	-0.00001	-0.00000
	(B * !D * Y)	-0.00029	-0.00028	-0.00028
	(A * !B * D * Y)	0.00000	0.00000	0.00000
	(A * !B * D * Y)	0.00007	0.00007	0.00007
	(A * !B * D * Y)	-0.00001	-0.00001	-0.00000
	(A * !B * D * Y)	-0.00028	-0.00028	-0.00028
	(A * !B * !D * Y)	0.00000	0.00000	0.00000
	(A * !B * !D * Y)	0.00006	0.00006	0.00006
	(A * !B * !D * Y)	-0.00001	-0.00001	-0.00000
	(A * !B * !D * Y)	-0.00029	-0.00028	-0.00028
	(!A * !B * D * Y)	0.00012	0.00013	0.00014
	(!A * !B * D * Y)	0.00001	0.00002	0.00003
	(!A * !B * D * Y)	-0.00001	-0.00001	-0.00000
	(!A * !B * D * Y)	-0.00028	-0.00028	-0.00028

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X3H7H	(C * Y)	-0.00000	-0.00000	0.00000
	(C * Y)	-0.00004	-0.00004	-0.00004
	(C * Y)	0.00000	0.00001	0.00001
	(C * Y)	0.00036	0.00036	0.00037
	(B * !C * Y)	-0.00000	-0.00000	0.00000
	(B * !C * Y)	-0.00004	-0.00004	-0.00004
	(B * !C * Y)	0.00000	0.00001	0.00001
	(B * !C * Y)	0.00036	0.00036	0.00037
	(A * !B * !C * Y)	-0.00000	-0.00000	0.00000
	(A * !B * !C * Y)	-0.00004	-0.00004	-0.00004
	(A * !B * !C * Y)	0.00000	0.00001	0.00001
	(A * !B * !C * Y)	0.00036	0.00036	0.00037

Passive power(pJ) for D falling (conditional):

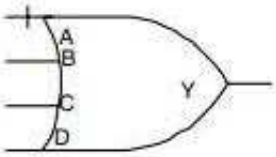
Cell Name	When	Power(pJ)		
		min	avg	max
OR4X3H7H	(C * Y)	0.00000	0.00000	0.00000
	(C * Y)	0.00004	0.00004	0.00004
	(C * Y)	-0.00001	-0.00001	-0.00000
	(C * Y)	-0.00037	-0.00036	-0.00036
	(B * !C * Y)	0.00000	0.00000	0.00000
	(B * !C * Y)	0.00004	0.00004	0.00004
	(B * !C * Y)	-0.00001	-0.00001	-0.00000
	(B * !C * Y)	-0.00037	-0.00036	-0.00035
	(A * !B * !C * Y)	0.00000	0.00000	0.00000
	(A * !B * !C * Y)	0.00004	0.00004	0.00004
	(A * !B * !C * Y)	-0.00001	-0.00001	-0.00000
	(A * !B * !C * Y)	-0.00037	-0.00036	-0.00035

OR4X4H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OR4 cell provides the logical OR of four inputs (A, B, C, D). The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A	B	C	D	Y
0	0	0	0	0
0	0	x	1	1
0	x	1	x	1
x	1	x	x	1
1	x	x	x	1

Footprint

Cell Name	Area
OR4X4H7H	3.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A	B	C	D	Y
OR4X4H7H	0.00108	0.00104	0.00102	0.00103	0.11607

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OR4X4H7H	0.00000	0.04136	0.08184

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR4X4H7H	A->Y (RR)	0.06051	0.24501	0.69337
	B->Y (RR)	0.05915	0.24219	0.68687
	C->Y (RR)	0.05719	0.23891	0.67927
	D->Y (RR)	0.05491	0.23527	0.67297

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR4X4H7H	A->Y (FF)	0.23561	0.40736	0.78501
	B->Y (FF)	0.22993	0.40476	0.79517
	C->Y (FF)	0.22046	0.39848	0.80120
	D->Y (FF)	0.20525	0.37864	0.77413

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR4X4H7H	A	0.00144	0.00159	0.00174
	A	0.00015	0.00015	0.00015
	A	-0.00007	-0.00007	-0.00003
	A	0.00314	0.00330	0.00345
	B	0.00146	0.00161	0.00176
	B	0.00009	0.00009	0.00009
	B	-0.00007	-0.00007	-0.00007
	B	0.00295	0.00311	0.00325
	C	0.00147	0.00161	0.00176
	C	0.00002	0.00002	0.00002
	C	-0.00007	-0.00007	-0.00007
	C	0.00278	0.00293	0.00307
	D	0.00147	0.00163	0.00177
	D	-0.00005	-0.00005	-0.00003
	D	-0.00007	-0.00007	-0.00006
	D	0.00262	0.00278	0.00292

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR4X4H7H	A	0.00350	0.00361	0.00376
	A	-0.00015	-0.00015	-0.00015
	A	0.00007	0.00007	0.00008
	A	0.00167	0.00178	0.00193
	B	0.00328	0.00338	0.00353
	B	-0.00009	-0.00009	-0.00009
	B	0.00007	0.00007	0.00008
	B	0.00170	0.00180	0.00195
	C	0.00305	0.00316	0.00330
	C	-0.00002	-0.00002	-0.00002
	C	0.00007	0.00007	0.00008
	C	0.00170	0.00180	0.00195
	D	0.00281	0.00292	0.00307
	D	0.00003	0.00005	0.00005
	D	0.00006	0.00007	0.00008
	D	0.00163	0.00176	0.00192

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X4H7H	(B * D * Y)	-0.00013	-0.00012	-0.00010
	(B * D * Y)	-0.00003	-0.00003	-0.00003
	(B * D * Y)	0.00000	0.00001	0.00001
	(B * D * Y)	0.00035	0.00036	0.00036
	(B * C * !D * Y)	-0.00014	-0.00012	-0.00011
	(B * C * !D * Y)	-0.00003	-0.00003	-0.00003
	(B * C * !D * Y)	0.00001	0.00001	0.00001
	(B * C * !D * Y)	0.00036	0.00036	0.00036
	(B * !C * !D * Y)	-0.00014	-0.00012	-0.00010
	(B * !C * !D * Y)	-0.00003	-0.00003	-0.00002
	(B * !C * !D * Y)	0.00001	0.00001	0.00001
	(B * !C * !D * Y)	0.00035	0.00036	0.00036
	(!B * C * D * Y)	-0.00013	-0.00012	-0.00010
	(!B * C * D * Y)	-0.00003	-0.00003	-0.00003
	(!B * C * D * Y)	0.00001	0.00001	0.00001
	(!B * C * D * Y)	0.00036	0.00036	0.00036
	(!B * C * !D * Y)	-0.00013	-0.00012	-0.00009
	(!B * C * !D * Y)	-0.00004	-0.00003	-0.00003
	(!B * C * !D * Y)	0.00001	0.00001	0.00001
	(!B * C * !D * Y)	0.00035	0.00036	0.00036
	(!B * !C * D * Y)	-0.00013	-0.00011	-0.00009
	(!B * !C * D * Y)	-0.00004	-0.00003	-0.00003
	(!B * !C * D * Y)	0.00001	0.00001	0.00001
	(!B * !C * D * Y)	0.00035	0.00036	0.00036

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X4H7H	(B * D * Y)	0.00013	0.00013	0.00013
	(B * D * Y)	0.00003	0.00003	0.00003
	(B * D * Y)	-0.00001	-0.00001	-0.00000
	(B * D * Y)	-0.00036	-0.00036	-0.00035
	(B * C * !D * Y)	0.00013	0.00013	0.00014
	(B * C * !D * Y)	0.00003	0.00003	0.00003
	(B * C * !D * Y)	-0.00001	-0.00001	-0.00001
	(B * C * !D * Y)	-0.00036	-0.00036	-0.00035
	(B * !C * !D * Y)	0.00013	0.00014	0.00015
	(B * !C * !D * Y)	0.00002	0.00003	0.00003
	(B * !C * !D * Y)	-0.00001	-0.00001	-0.00001
	(B * !C * !D * Y)	-0.00036	-0.00036	-0.00035
	(!B * C * D * Y)	0.00013	0.00013	0.00013
	(!B * C * D * Y)	0.00003	0.00003	0.00003
	(!B * C * D * Y)	-0.00001	-0.00001	-0.00001
	(!B * C * D * Y)	-0.00036	-0.00036	-0.00036
	(!B * C * !D * Y)	0.00012	0.00013	0.00013
	(!B * C * !D * Y)	0.00003	0.00003	0.00004
	(!B * C * !D * Y)	-0.00001	-0.00001	-0.00001
	(!B * C * !D * Y)	-0.00036	-0.00036	-0.00035
	(!B * !C * D * Y)	0.00012	0.00013	0.00013
	(!B * !C * D * Y)	0.00003	0.00003	0.00004
	(!B * !C * D * Y)	-0.00001	-0.00001	-0.00001
	(!B * !C * D * Y)	-0.00036	-0.00036	-0.00035

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X4H7H	(A * C * D * Y)	-0.00000	-0.00000	-0.00000
	(A * C * D * Y)	-0.00009	-0.00009	-0.00008
	(A * C * D * Y)	0.00000	0.00001	0.00001
	(A * C * D * Y)	0.00031	0.00031	0.00031
	(A * C * !D * Y)	-0.00000	-0.00000	0.00000
	(A * C * !D * Y)	-0.00009	-0.00008	-0.00008
	(A * C * !D * Y)	0.00000	0.00001	0.00001
	(A * C * !D * Y)	0.00031	0.00031	0.00031
	(A * !C * D * Y)	-0.00000	-0.00000	0.00000
	(A * !C * D * Y)	-0.00008	-0.00008	-0.00008
	(A * !C * D * Y)	0.00001	0.00001	0.00001
	(A * !C * D * Y)	0.00031	0.00031	0.00031
	(A * !C * !D * Y)	-0.00000	-0.00000	-0.00000
	(A * !C * !D * Y)	-0.00007	-0.00007	-0.00007
	(A * !C * !D * Y)	0.00000	0.00001	0.00001
	(A * !C * !D * Y)	0.00031	0.00031	0.00031
	(!A * C * D * Y)	-0.00014	-0.00013	-0.00010
	(!A * C * D * Y)	-0.00003	-0.00003	-0.00003
	(!A * C * D * Y)	0.00001	0.00001	0.00001
	(!A * C * D * Y)	0.00031	0.00031	0.00031
	(!A * C * !D * Y)	-0.00014	-0.00013	-0.00010
	(!A * C * !D * Y)	-0.00003	-0.00003	-0.00003
	(!A * C * !D * Y)	0.00001	0.00001	0.00001
	(!A * C * !D * Y)	0.00030	0.00031	0.00031
	(!A * !C * D * Y)	-0.00013	-0.00011	-0.00009
	(!A * !C * D * Y)	-0.00003	-0.00003	-0.00002
	(!A * !C * D * Y)	0.00001	0.00001	0.00001
	(!A * !C * D * Y)	0.00030	0.00031	0.00031

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X4H7H	(A * C * D * Y)	0.00000	0.00000	0.00000
	(A * C * D * Y)	0.00008	0.00009	0.00009
	(A * C * D * Y)	-0.00001	-0.00001	-0.00000
	(A * C * D * Y)	-0.00031	-0.00031	-0.00031
	(A * C * !D * Y)	0.00000	0.00000	0.00000
	(A * C * !D * Y)	0.00008	0.00008	0.00009
	(A * C * !D * Y)	-0.00001	-0.00001	-0.00000
	(A * C * !D * Y)	-0.00031	-0.00031	-0.00031
	(A * !C * D * Y)	0.00000	0.00000	0.00000
	(A * !C * D * Y)	0.00008	0.00008	0.00008
	(A * !C * D * Y)	-0.00001	-0.00001	-0.00001
	(A * !C * D * Y)	-0.00031	-0.00031	-0.00031
	(A * !C * !D * Y)	0.00000	0.00000	0.00000
	(A * !C * !D * Y)	0.00007	0.00007	0.00007
	(A * !C * !D * Y)	-0.00001	-0.00001	-0.00000
	(A * !C * !D * Y)	-0.00031	-0.00031	-0.00031
	(!A * C * D * Y)	0.00014	0.00014	0.00014
	(!A * C * D * Y)	0.00003	0.00003	0.00003
	(!A * C * D * Y)	-0.00001	-0.00001	-0.00001
	(!A * C * D * Y)	-0.00031	-0.00031	-0.00030
	(!A * C * !D * Y)	0.00013	0.00014	0.00014
	(!A * C * !D * Y)	0.00003	0.00003	0.00003
	(!A * C * !D * Y)	-0.00001	-0.00001	-0.00001
	(!A * C * !D * Y)	-0.00031	-0.00031	-0.00030
	(!A * !C * D * Y)	0.00013	0.00013	0.00014
	(!A * !C * D * Y)	0.00002	0.00003	0.00003
	(!A * !C * D * Y)	-0.00001	-0.00001	-0.00001
	(!A * !C * D * Y)	-0.00031	-0.00031	-0.00030

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X4H7H	(B * D * Y)	-0.00000	-0.00000	0.00000
	(B * D * Y)	-0.00008	-0.00008	-0.00008
	(B * D * Y)	0.00000	0.00001	0.00001
	(B * D * Y)	0.00030	0.00030	0.00030
	(B * !D * Y)	-0.00000	-0.00000	0.00000
	(B * !D * Y)	-0.00007	-0.00007	-0.00007
	(B * !D * Y)	0.00001	0.00001	0.00001
	(B * !D * Y)	0.00030	0.00030	0.00030
	(A * !B * D * Y)	-0.00000	-0.00000	0.00000
	(A * !B * D * Y)	-0.00008	-0.00008	-0.00008
	(A * !B * D * Y)	0.00000	0.00001	0.00001
	(A * !B * D * Y)	0.00030	0.00030	0.00030
	(A * !B * !D * Y)	-0.00000	-0.00000	0.00000
	(A * !B * !D * Y)	-0.00007	-0.00007	-0.00006
	(A * !B * !D * Y)	0.00001	0.00001	0.00001
	(A * !B * !D * Y)	0.00030	0.00030	0.00030
	(!A * !B * D * Y)	-0.00014	-0.00012	-0.00010
	(!A * !B * D * Y)	-0.00004	-0.00003	-0.00003
	(!A * !B * D * Y)	0.00001	0.00001	0.00001
	(!A * !B * D * Y)	0.00030	0.00030	0.00030

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X4H7H	(B * D * Y)	0.00000	0.00000	0.00000
	(B * D * Y)	0.00008	0.00008	0.00008
	(B * D * Y)	-0.00001	-0.00001	-0.00000
	(B * D * Y)	-0.00030	-0.00030	-0.00029
	(B * !D * Y)	0.00000	0.00000	0.00000
	(B * !D * Y)	0.00007	0.00007	0.00007
	(B * !D * Y)	-0.00001	-0.00001	-0.00001
	(B * !D * Y)	-0.00030	-0.00030	-0.00030
	(A * !B * D * Y)	0.00000	0.00000	0.00000
	(A * !B * D * Y)	0.00008	0.00008	0.00008
	(A * !B * D * Y)	-0.00001	-0.00001	-0.00000
	(A * !B * D * Y)	-0.00030	-0.00030	-0.00029
	(A * !B * !D * Y)	0.00000	0.00000	0.00001
	(A * !B * !D * Y)	0.00006	0.00007	0.00007
	(A * !B * !D * Y)	-0.00001	-0.00001	-0.00001
	(A * !B * !D * Y)	-0.00030	-0.00030	-0.00029
	(!A * !B * D * Y)	0.00013	0.00014	0.00014
	(!A * !B * D * Y)	0.00003	0.00003	0.00004
	(!A * !B * D * Y)	-0.00001	-0.00001	-0.00001
	(!A * !B * D * Y)	-0.00030	-0.00029	-0.00029

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X4H7H	(C * Y)	-0.00000	-0.00000	0.00000
	(C * Y)	-0.00004	-0.00004	-0.00004
	(C * Y)	0.00000	0.00001	0.00001
	(C * Y)	0.00039	0.00039	0.00039
	(B * !C * Y)	-0.00000	-0.00000	0.00000
	(B * !C * Y)	-0.00004	-0.00004	-0.00004
	(B * !C * Y)	0.00001	0.00001	0.00001
	(B * !C * Y)	0.00038	0.00038	0.00039
	(A * !B * !C * Y)	-0.00000	-0.00000	0.00000
	(A * !B * !C * Y)	-0.00004	-0.00004	-0.00003
	(A * !B * !C * Y)	0.00001	0.00001	0.00001
	(A * !B * !C * Y)	0.00038	0.00038	0.00039

Passive power(pJ) for D falling (conditional):

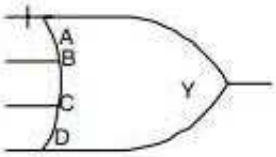
Cell Name	When	Power(pJ)		
		min	avg	max
OR4X4H7H	(C * Y)	0.00000	0.00000	0.00000
	(C * Y)	0.00005	0.00005	0.00005
	(C * Y)	-0.00001	-0.00001	-0.00000
	(C * Y)	-0.00039	-0.00038	-0.00038
	(B * !C * Y)	0.00000	0.00000	0.00000
	(B * !C * Y)	0.00004	0.00004	0.00004
	(B * !C * Y)	-0.00001	-0.00001	-0.00001
	(B * !C * Y)	-0.00039	-0.00038	-0.00037
	(A * !B * !C * Y)	0.00000	0.00000	0.00001
	(A * !B * !C * Y)	0.00003	0.00004	0.00005
	(A * !B * !C * Y)	-0.00001	-0.00001	-0.00001
	(A * !B * !C * Y)	-0.00039	-0.00038	-0.00038

OR4X6H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OR4 cell provides the logical OR of four inputs (A, B, C, D). The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A	B	C	D	Y
0	0	0	0	0
0	0	x	1	1
0	x	1	x	1
x	1	x	x	1
1	x	x	x	1

Footprint

Cell Name	Area
OR4X6H7H	3.92000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A	B	C	D	Y
OR4X6H7H	0.00117	0.00117	0.00111	0.00155	0.17281

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OR4X6H7H	0.00000	0.06253	0.10466

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR4X6H7H	A->Y (RR)	0.06353	0.25223	0.71125
	B->Y (RR)	0.06224	0.24961	0.70498
	C->Y (RR)	0.06004	0.24627	0.69830
	D->Y (RR)	0.05305	0.23126	0.66138

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR4X6H7H	A->Y (FF)	0.25614	0.43936	0.83275
	B->Y (FF)	0.25146	0.43758	0.84402
	C->Y (FF)	0.24111	0.43068	0.85035
	D->Y (FF)	0.23329	0.41575	0.82854

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR4X6H7H	A	0.00199	0.00218	0.00239
	A	0.00015	0.00016	0.00017
	A	-0.00006	-0.00006	-0.00006
	A	0.00396	0.00416	0.00437
	B	0.00201	0.00220	0.00240
	B	0.00008	0.00008	0.00008
	B	-0.00006	-0.00006	-0.00006
	B	0.00375	0.00396	0.00416
	C	0.00202	0.00221	0.00241
	C	0.00000	0.00000	0.00000
	C	-0.00006	-0.00006	-0.00006
	C	0.00354	0.00374	0.00393
	D	0.00199	0.00220	0.00240
	D	-0.00009	-0.00008	-0.00007
	D	-0.00006	-0.00006	-0.00006
	D	0.00349	0.00372	0.00391

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR4X6H7H	A	0.00453	0.00466	0.00485
	A	-0.00017	-0.00016	-0.00015
	A	0.00006	0.00006	0.00006
	A	0.00238	0.00252	0.00272
	B	0.00427	0.00440	0.00458
	B	-0.00008	-0.00008	-0.00008
	B	0.00006	0.00006	0.00006
	B	0.00241	0.00254	0.00273
	C	0.00399	0.00412	0.00430
	C	-0.00000	-0.00000	-0.00000
	C	0.00006	0.00006	0.00006
	C	0.00242	0.00255	0.00273
	D	0.00377	0.00392	0.00413
	D	0.00007	0.00009	0.00009
	D	0.00006	0.00006	0.00007
	D	0.00226	0.00239	0.00261

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X6H7H	(B * D * Y)	-0.00016	-0.00015	-0.00013
	(B * D * Y)	-0.00004	-0.00003	-0.00003
	(B * D * Y)	0.00001	0.00001	0.00001
	(B * D * Y)	0.00037	0.00038	0.00038
	(B * C * !D * Y)	-0.00016	-0.00015	-0.00013
	(B * C * !D * Y)	-0.00004	-0.00003	-0.00003
	(B * C * !D * Y)	0.00001	0.00001	0.00001
	(B * C * !D * Y)	0.00037	0.00038	0.00038
	(B * !C * !D * Y)	-0.00016	-0.00015	-0.00013
	(B * !C * !D * Y)	-0.00004	-0.00003	-0.00002
	(B * !C * !D * Y)	0.00001	0.00001	0.00001
	(B * !C * !D * Y)	0.00037	0.00038	0.00038
	(!B * C * D * Y)	-0.00016	-0.00014	-0.00012
	(!B * C * D * Y)	-0.00004	-0.00003	-0.00003
	(!B * C * D * Y)	0.00001	0.00001	0.00001
	(!B * C * D * Y)	0.00038	0.00038	0.00038
	(!B * C * !D * Y)	-0.00016	-0.00014	-0.00011
	(!B * C * !D * Y)	-0.00004	-0.00003	-0.00003
	(!B * C * !D * Y)	0.00001	0.00001	0.00001
	(!B * C * !D * Y)	0.00037	0.00038	0.00038
	(!B * !C * D * Y)	-0.00015	-0.00014	-0.00011
	(!B * !C * D * Y)	-0.00004	-0.00003	-0.00002
	(!B * !C * D * Y)	0.00001	0.00001	0.00001
	(!B * !C * D * Y)	0.00037	0.00038	0.00038

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X6H7H	(B * D * Y)	0.00016	0.00016	0.00016
	(B * D * Y)	0.00003	0.00003	0.00004
	(B * D * Y)	-0.00001	-0.00001	-0.00001
	(B * D * Y)	-0.00038	-0.00038	-0.00037
	(B * C * !D * Y)	0.00016	0.00016	0.00016
	(B * C * !D * Y)	0.00003	0.00003	0.00004
	(B * C * !D * Y)	-0.00001	-0.00001	-0.00001
	(B * C * !D * Y)	-0.00038	-0.00038	-0.00037
	(B * !C * !D * Y)	0.00016	0.00016	0.00017
	(B * !C * !D * Y)	0.00002	0.00003	0.00004
	(B * !C * !D * Y)	-0.00001	-0.00001	-0.00001
	(B * !C * !D * Y)	-0.00038	-0.00038	-0.00037
	(!B * C * D * Y)	0.00016	0.00016	0.00016
	(!B * C * D * Y)	0.00003	0.00004	0.00004
	(!B * C * D * Y)	-0.00001	-0.00001	-0.00001
	(!B * C * D * Y)	-0.00038	-0.00038	-0.00037
	(!B * C * !D * Y)	0.00015	0.00016	0.00017
	(!B * C * !D * Y)	0.00003	0.00003	0.00004
	(!B * C * !D * Y)	-0.00001	-0.00001	-0.00001
	(!B * C * !D * Y)	-0.00038	-0.00038	-0.00037
	(!B * !C * D * Y)	0.00015	0.00015	0.00016
	(!B * !C * D * Y)	0.00002	0.00003	0.00004
	(!B * !C * D * Y)	-0.00001	-0.00001	-0.00001
	(!B * !C * D * Y)	-0.00038	-0.00038	-0.00037

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X6H7H	(A * C * D * Y)	-0.00000	-0.00000	0.00000
	(A * C * D * Y)	-0.00010	-0.00010	-0.00010
	(A * C * D * Y)	0.00001	0.00001	0.00001
	(A * C * D * Y)	0.00034	0.00034	0.00034
	(A * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(A * C * !D * Y)	-0.00010	-0.00010	-0.00010
	(A * C * !D * Y)	0.00001	0.00001	0.00001
	(A * C * !D * Y)	0.00034	0.00034	0.00034
	(A * !C * D * Y)	-0.00000	-0.00000	0.00000
	(A * !C * D * Y)	-0.00010	-0.00010	-0.00009
	(A * !C * D * Y)	0.00001	0.00001	0.00001
	(A * !C * D * Y)	0.00034	0.00034	0.00034
	(A * !C * !D * Y)	-0.00000	-0.00000	0.00000
	(A * !C * !D * Y)	-0.00008	-0.00008	-0.00007
	(A * !C * !D * Y)	0.00001	0.00001	0.00001
	(A * !C * !D * Y)	0.00034	0.00034	0.00034
	(!A * C * D * Y)	-0.00017	-0.00015	-0.00012
	(!A * C * D * Y)	-0.00004	-0.00004	-0.00003
	(!A * C * D * Y)	0.00001	0.00001	0.00001
	(!A * C * D * Y)	0.00034	0.00034	0.00034
	(!A * C * !D * Y)	-0.00017	-0.00015	-0.00012
	(!A * C * !D * Y)	-0.00004	-0.00003	-0.00003
	(!A * C * !D * Y)	0.00001	0.00001	0.00001
	(!A * C * !D * Y)	0.00033	0.00034	0.00034
	(!A * !C * D * Y)	-0.00016	-0.00014	-0.00011
	(!A * !C * D * Y)	-0.00004	-0.00003	-0.00002
	(!A * !C * D * Y)	0.00001	0.00001	0.00001
	(!A * !C * D * Y)	0.00033	0.00034	0.00034

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X6H7H	(A * C * D * Y)	0.00000	0.00000	0.00000
	(A * C * D * Y)	0.00010	0.00010	0.00010
	(A * C * D * Y)	-0.00001	-0.00001	-0.00001
	(A * C * D * Y)	-0.00034	-0.00034	-0.00034
	(A * C * !D * Y)	0.00000	0.00000	0.00000
	(A * C * !D * Y)	0.00010	0.00010	0.00010
	(A * C * !D * Y)	-0.00001	-0.00001	-0.00001
	(A * C * !D * Y)	-0.00034	-0.00034	-0.00034
	(A * !C * D * Y)	0.00000	0.00000	0.00000
	(A * !C * D * Y)	0.00009	0.00010	0.00010
	(A * !C * D * Y)	-0.00001	-0.00001	-0.00001
	(A * !C * D * Y)	-0.00034	-0.00034	-0.00034
	(A * !C * !D * Y)	0.00000	0.00000	0.00001
	(A * !C * !D * Y)	0.00007	0.00008	0.00009
	(A * !C * !D * Y)	-0.00001	-0.00001	-0.00001
	(A * !C * !D * Y)	-0.00034	-0.00034	-0.00034
	(!A * C * D * Y)	0.00016	0.00016	0.00017
	(!A * C * D * Y)	0.00003	0.00004	0.00004
	(!A * C * D * Y)	-0.00001	-0.00001	-0.00001
	(!A * C * D * Y)	-0.00034	-0.00034	-0.00033
	(!A * C * !D * Y)	0.00016	0.00017	0.00017
	(!A * C * !D * Y)	0.00003	0.00003	0.00004
	(!A * C * !D * Y)	-0.00001	-0.00001	-0.00001
	(!A * C * !D * Y)	-0.00034	-0.00034	-0.00033
	(!A * !C * D * Y)	0.00015	0.00016	0.00017
	(!A * !C * D * Y)	0.00002	0.00003	0.00004
	(!A * !C * D * Y)	-0.00001	-0.00001	-0.00001
	(!A * !C * D * Y)	-0.00034	-0.00034	-0.00033

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X6H7H	(B * D * Y)	-0.00000	-0.00000	0.00000
	(B * D * Y)	-0.00010	-0.00010	-0.00009
	(B * D * Y)	0.00001	0.00001	0.00001
	(B * D * Y)	0.00031	0.00032	0.00032
	(B * !D * Y)	-0.00000	-0.00000	0.00000
	(B * !D * Y)	-0.00008	-0.00008	-0.00008
	(B * !D * Y)	0.00001	0.00001	0.00001
	(B * !D * Y)	0.00032	0.00032	0.00032
	(A * !B * D * Y)	-0.00000	-0.00000	-0.00000
	(A * !B * D * Y)	-0.00010	-0.00009	-0.00009
	(A * !B * D * Y)	0.00001	0.00001	0.00001
	(A * !B * D * Y)	0.00031	0.00032	0.00032
	(A * !B * !D * Y)	-0.00000	-0.00000	0.00000
	(A * !B * !D * Y)	-0.00008	-0.00008	-0.00006
	(A * !B * !D * Y)	0.00001	0.00001	0.00001
	(A * !B * !D * Y)	0.00032	0.00032	0.00032
	(!A * !B * D * Y)	-0.00016	-0.00015	-0.00012
	(!A * !B * D * Y)	-0.00004	-0.00003	-0.00002
	(!A * !B * D * Y)	0.00001	0.00001	0.00001
	(!A * !B * D * Y)	0.00031	0.00032	0.00032

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X6H7H	(B * D * Y)	0.00000	0.00000	0.00000
	(B * D * Y)	0.00009	0.00010	0.00010
	(B * D * Y)	-0.00001	-0.00001	-0.00001
	(B * D * Y)	-0.00032	-0.00032	-0.00031
	(B * !D * Y)	0.00000	0.00000	0.00000
	(B * !D * Y)	0.00008	0.00008	0.00008
	(B * !D * Y)	-0.00001	-0.00001	-0.00001
	(B * !D * Y)	-0.00032	-0.00032	-0.00031
	(A * !B * D * Y)	0.00000	0.00000	0.00000
	(A * !B * D * Y)	0.00009	0.00009	0.00010
	(A * !B * D * Y)	-0.00001	-0.00001	-0.00001
	(A * !B * D * Y)	-0.00032	-0.00032	-0.00031
	(A * !B * !D * Y)	-0.00000	0.00000	0.00002
	(A * !B * !D * Y)	0.00006	0.00008	0.00008
	(A * !B * !D * Y)	-0.00001	-0.00001	-0.00001
	(A * !B * !D * Y)	-0.00032	-0.00032	-0.00032
	(!A * !B * D * Y)	0.00016	0.00016	0.00018
	(!A * !B * D * Y)	0.00002	0.00003	0.00004
	(!A * !B * D * Y)	-0.00001	-0.00001	-0.00001
	(!A * !B * D * Y)	-0.00032	-0.00031	-0.00031

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X6H7H	(C * Y)	-0.00000	-0.00000	-0.00000
	(C * Y)	-0.00006	-0.00006	-0.00006
	(C * Y)	0.00001	0.00001	0.00001
	(C * Y)	0.00060	0.00060	0.00060
	(B * !C * Y)	-0.00000	-0.00000	0.00000
	(B * !C * Y)	-0.00006	-0.00006	-0.00006
	(B * !C * Y)	0.00001	0.00001	0.00001
	(B * !C * Y)	0.00060	0.00060	0.00060
	(A * !B * !C * Y)	-0.00000	-0.00000	0.00000
	(A * !B * !C * Y)	-0.00006	-0.00006	-0.00005
	(A * !B * !C * Y)	0.00001	0.00001	0.00001
	(A * !B * !C * Y)	0.00059	0.00060	0.00060

Passive power(pJ) for D falling (conditional):

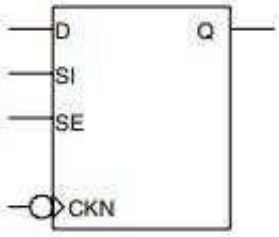
Cell Name	When	Power(pJ)		
		min	avg	max
OR4X6H7H	(C * Y)	0.00000	0.00000	0.00000
	(C * Y)	0.00006	0.00006	0.00006
	(C * Y)	-0.00001	-0.00001	-0.00001
	(C * Y)	-0.00060	-0.00060	-0.00059
	(B * !C * Y)	0.00000	0.00000	0.00000
	(B * !C * Y)	0.00006	0.00006	0.00006
	(B * !C * Y)	-0.00001	-0.00001	-0.00001
	(B * !C * Y)	-0.00060	-0.00060	-0.00058
	(A * !B * !C * Y)	0.00000	0.00000	0.00001
	(A * !B * !C * Y)	0.00005	0.00006	0.00007
	(A * !B * !C * Y)	-0.00001	-0.00001	-0.00001
	(A * !B * !C * Y)	-0.00060	-0.00060	-0.00059

SDFFNQX1H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The SDFFNQ cell is a negative-edge triggered, static D-type flip-flop with scan input (SI) and active-high scan enable (SE).



Truth Table

INPUT				OUTPUT
CKN	D	SE	SI	Q
F	0	0	x	0
F	x	1	0	0
F	x	1	1	1
F	1	0	x	1
x	x	x	x	IQ

Footprint

Cell Name	Area
SDFFNQX1H7H	9.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	CKN	D	SE	SI	Q
SDFFNQX1H7H	0.00110	0.00070	0.00206	0.00082	0.04097

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
SDFFNQX1H7H	0.00000	0.06355	0.06721

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFNQX1H7H	CKN->Q (FR)	(D * SE)	0.15804	0.35263	0.81989
	CKN->Q (FR)	(D * !SE * SI) + (!D * SE * !SI)	0.15808	0.35264	0.81987
	CKN->Q (FR)	(!SE * !SI)	0.15808	0.35264	0.81987
	CKN->Q (FR)	(!D * SI)	0.15804	0.35263	0.81990

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFNQX1H7H	CKN->Q (FF)	(D * SE)	0.25150	0.42092	0.79717
	CKN->Q (FF)	(D * !SE * SI) + (!D * SE * !SI)	0.25150	0.42092	0.79717
	CKN->Q (FF)	(!SE * !SI)	0.25153	0.42100	0.79746
	CKN->Q (FF)	(!D * SI)	0.25153	0.42100	0.79746

Constraint Information

Min Pulse Width (ns) for CKN:

Cell Name	High	Low
SDFFNQX1H7H	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNQX1H7H	**hold**	**CKN (F)**	-0.23245	-0.02408	0.17841
	setup	**CKN (F)**	-0.12980	0.08959	0.31143

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNQX1H7H	**hold**	**CKN (F)**	-0.34703	-0.15105	-0.01611
	setup	**CKN (F)**	0.03877	0.17645	0.38077

Constraints(ns) for SE rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNQX1H7H	**hold**	**CKN (F)**	-0.20039	-0.00562	0.19214
	setup	**CKN (F)**	0.10174	0.21744	0.34263

Constraints(ns) for SE falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNQX1H7H	**hold**	**CKN (F)**	-0.23073	-0.05155	0.14634
	setup	**CKN (F)**	0.01401	0.14964	0.33433

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNQX1H7H	hold	CKN (F)	-0.23483	-0.02456	0.17607
	setup	CKN (F)	-0.12926	0.09062	0.31479

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNQX1H7H	hold	CKN (F)	-0.38762	-0.18944	-0.05893
	setup	CKN (F)	0.08007	0.21819	0.42994

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFNQX1H7H	CKN	(D * SE)	0.00412	0.00422	0.00432
	CKN	(D * SE)	0.00005	0.00006	0.00008
	CKN	(D * SE)	-0.00006	-0.00004	-0.00001
	CKN	(D * SE)	0.00350	0.00360	0.00370
	CKN	(D * !SE * SI) + (!D * SE * !SI)	0.00412	0.00422	0.00432
	CKN	(D * !SE * SI) + (!D * SE * !SI)	0.00005	0.00006	0.00008
	CKN	(D * !SE * SI) + (!D * SE * !SI)	-0.00005	-0.00004	-0.00000
	CKN	(D * !SE * SI) + (!D * SE * !SI)	0.00348	0.00360	0.00370
	CKN	(!SE * !SI)	0.00412	0.00422	0.00432
	CKN	(!SE * !SI)	0.00005	0.00006	0.00008
	CKN	(!SE * !SI)	-0.00005	-0.00004	-0.00000
	CKN	(!SE * !SI)	0.00350	0.00360	0.00370
	CKN	(!D * SI)	0.00412	0.00422	0.00432
	CKN	(!D * SI)	0.00004	0.00006	0.00008
	CKN	(!D * SI)	-0.00006	-0.00004	-0.00001
	CKN	(!D * SI)	0.00350	0.00360	0.00370

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFNQX1H7H	CKN	(D * SE)	0.00470	0.00480	0.00489
	CKN	(D * SE)	-0.00005	-0.00004	-0.00000
	CKN	(D * SE)	0.00003	0.00005	0.00006
	CKN	(D * SE)	0.00389	0.00399	0.00408
	CKN	(D * !SE * SI) + (!D * SE * !SI)	0.00470	0.00480	0.00489
	CKN	(D * !SE * SI) + (!D * SE * !SI)	-0.00005	-0.00004	-0.00000
	CKN	(D * !SE * SI) + (!D * SE * !SI)	0.00003	0.00005	0.00007
	CKN	(D * !SE * SI) + (!D * SE * !SI)	0.00389	0.00399	0.00408
	CKN	(!SE * !SI)	0.00470	0.00480	0.00489
	CKN	(!SE * !SI)	-0.00005	-0.00004	-0.00001
	CKN	(!SE * !SI)	0.00003	0.00005	0.00007
	CKN	(!SE * !SI)	0.00389	0.00399	0.00408
	CKN	(!D * SI)	0.00470	0.00480	0.00489
	CKN	(!D * SI)	-0.00005	-0.00004	-0.00001
	CKN	(!D * SI)	0.00003	0.00005	0.00007
	CKN	(!D * SI)	0.00389	0.00399	0.00408

Passive power(pJ) for CKN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNQX1H7H	**(D * SE * SI)**	0.00372	0.00375	0.00379
	(D * SE * SI)	-0.00001	-0.00000	-0.00000
	(D * SE * SI)	-0.00000	-0.00000	0.00000
	(D * SE * SI)	0.00446	0.00449	0.00453
	(D * SE * !SI)	0.00302	0.00310	0.00317
	(D * SE * !SI)	-0.00001	-0.00000	0.00000
	(D * SE * !SI)	-0.00000	0.00000	0.00001
	(D * SE * !SI)	0.00371	0.00379	0.00387
	(D * !SE * SI)	0.00372	0.00375	0.00379
	(D * !SE * SI)	-0.00001	-0.00001	-0.00000
	(D * !SE * SI)	0.00000	0.00000	0.00000
	(D * !SE * SI)	0.00445	0.00449	0.00453
	(D * !SE * !SI)	0.00372	0.00375	0.00379
	(D * !SE * !SI)	-0.00001	-0.00001	-0.00000
	(D * !SE * !SI)	-0.00000	-0.00000	0.00000
	(D * !SE * !SI)	0.00445	0.00449	0.00453
	(!D * SE * SI)	0.00372	0.00375	0.00379
	(!D * SE * SI)	-0.00001	-0.00001	-0.00000
	(!D * SE * SI)	-0.00000	-0.00000	0.00000
	(!D * SE * SI)	0.00446	0.00449	0.00453
	(!D * SE * !SI)	0.00302	0.00310	0.00317
	(!D * SE * !SI)	-0.00001	-0.00000	0.00000
	(!D * SE * !SI)	-0.00000	0.00000	0.00001
	(!D * SE * !SI)	0.00371	0.00379	0.00387
	(!D * !SE * SI)	0.00303	0.00311	0.00319
	(!D * !SE * SI)	-0.00001	-0.00000	0.00000
	(!D * !SE * SI)	-0.00000	0.00000	0.00001
	(!D * !SE * SI)	0.00372	0.00379	0.00386
	(!D * !SE * !SI)	0.00303	0.00311	0.00319
	(!D * !SE * !SI)	-0.00001	-0.00000	0.00000
	(!D * !SE * !SI)	-0.00000	0.00000	0.00001
	(!D * !SE * !SI)	0.00372	0.00379	0.00386

Passive power(pJ) for CKN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNQX1H7H	**(D * SE * SI)**	0.00249	0.00254	0.00259
	(D * SE * SI)	0.00002	0.00002	0.00003
	(D * SE * SI)	0.00000	0.00000	0.00000
	(D * SE * SI)	0.00179	0.00184	0.00189
	(D * SE * !SI)	0.00263	0.00267	0.00274
	(D * SE * !SI)	0.00000	0.00000	0.00001
	(D * SE * !SI)	0.00002	0.00002	0.00002
	(D * SE * !SI)	0.00189	0.00193	0.00199
	(D * !SE * SI)	0.00249	0.00254	0.00260
	(D * !SE * SI)	0.00001	0.00002	0.00002
	(D * !SE * SI)	0.00000	0.00000	0.00000
	(D * !SE * SI)	0.00179	0.00184	0.00189
	(D * !SE * !SI)	0.00249	0.00254	0.00260
	(D * !SE * !SI)	0.00001	0.00002	0.00002
	(D * !SE * !SI)	0.00000	0.00000	0.00000
	(D * !SE * !SI)	0.00179	0.00184	0.00189
	(!D * SE * SI)	0.00249	0.00254	0.00259
	(!D * SE * SI)	0.00002	0.00002	0.00003
	(!D * SE * SI)	0.00000	0.00000	0.00000
	(!D * SE * SI)	0.00179	0.00184	0.00189
	(!D * SE * !SI)	0.00263	0.00267	0.00274
	(!D * SE * !SI)	0.00000	0.00000	0.00001
	(!D * SE * !SI)	0.00002	0.00002	0.00002
	(!D * SE * !SI)	0.00189	0.00193	0.00199
	(!D * !SE * SI)	0.00263	0.00268	0.00273
	(!D * !SE * SI)	0.00000	0.00000	0.00001
	(!D * !SE * SI)	0.00001	0.00002	0.00002
	(!D * !SE * SI)	0.00189	0.00194	0.00200
	(!D * !SE * !SI)	0.00263	0.00267	0.00272
	(!D * !SE * !SI)	0.00000	0.00000	0.00001
	(!D * !SE * !SI)	0.00002	0.00002	0.00002
	(!D * !SE * !SI)	0.00189	0.00193	0.00199

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNQX1H7H	**(CKN * SE * SI)**	-0.00009	-0.00008	-0.00007
	(CKN * SE * SI)	-0.00002	-0.00002	-0.00002
	(CKN * SE * SI)	0.00001	0.00001	0.00002
	(CKN * SE * SI)	0.00028	0.00028	0.00028
	(CKN * SE * !SI)	-0.00009	-0.00008	-0.00007
	(CKN * SE * !SI)	-0.00002	-0.00002	-0.00002
	(CKN * SE * !SI)	0.00001	0.00001	0.00001
	(CKN * SE * !SI)	0.00028	0.00028	0.00028
	(CKN * !SE * SI)	0.00187	0.00188	0.00190
	(CKN * !SE * SI)	0.00011	0.00012	0.00012
	(CKN * !SE * SI)	-0.00012	-0.00011	-0.00011
	(CKN * !SE * SI)	0.00280	0.00282	0.00283
	(CKN * !SE * !SI)	0.00187	0.00188	0.00190
	(CKN * !SE * !SI)	0.00011	0.00012	0.00012
	(CKN * !SE * !SI)	-0.00012	-0.00011	-0.00010
	(CKN * !SE * !SI)	0.00281	0.00282	0.00283
	(!CKN * SE * SI)	-0.00009	-0.00008	-0.00007
	(!CKN * SE * SI)	-0.00002	-0.00002	-0.00002
	(!CKN * SE * SI)	0.00001	0.00001	0.00002
	(!CKN * SE * SI)	0.00028	0.00028	0.00028
	(!CKN * SE * !SI)	-0.00009	-0.00008	-0.00007
	(!CKN * SE * !SI)	-0.00002	-0.00002	-0.00002
	(!CKN * SE * !SI)	0.00001	0.00001	0.00001
	(!CKN * SE * !SI)	0.00028	0.00028	0.00028
	(!CKN * !SE * SI)	0.00033	0.00033	0.00035
	(!CKN * !SE * SI)	0.00011	0.00012	0.00012
	(!CKN * !SE * SI)	-0.00012	-0.00011	-0.00010
	(!CKN * !SE * SI)	0.00132	0.00134	0.00135
	(!CKN * !SE * !SI)	0.00033	0.00034	0.00035
	(!CKN * !SE * !SI)	0.00011	0.00012	0.00012
	(!CKN * !SE * !SI)	-0.00012	-0.00011	-0.00010
	(!CKN * !SE * !SI)	0.00133	0.00134	0.00135

Passive power(pJ) for D falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNQX1H7H	**(CKN * SE * SI)**	0.00009	0.00009	0.00009
	(CKN * SE * SI)	0.00002	0.00002	0.00002
	(CKN * SE * SI)	-0.00002	-0.00001	-0.00001
	(CKN * SE * SI)	-0.00028	-0.00028	-0.00027
	(CKN * SE * !SI)	0.00009	0.00009	0.00010
	(CKN * SE * !SI)	0.00002	0.00002	0.00002
	(CKN * SE * !SI)	-0.00001	-0.00001	-0.00001
	(CKN * SE * !SI)	-0.00028	-0.00028	-0.00027
	(CKN * !SE * SI)	0.00211	0.00213	0.00215
	(CKN * !SE * SI)	-0.00012	-0.00012	-0.00011
	(CKN * !SE * SI)	0.00011	0.00011	0.00012
	(CKN * !SE * SI)	0.00117	0.00119	0.00120
	(CKN * !SE * !SI)	0.00211	0.00213	0.00214
	(CKN * !SE * !SI)	-0.00012	-0.00012	-0.00011
	(CKN * !SE * !SI)	0.00010	0.00011	0.00012
	(CKN * !SE * !SI)	0.00117	0.00119	0.00120
	(!CKN * SE * SI)	0.00009	0.00009	0.00009
	(!CKN * SE * SI)	0.00002	0.00002	0.00002
	(!CKN * SE * SI)	-0.00002	-0.00001	-0.00001
	(!CKN * SE * SI)	-0.00028	-0.00028	-0.00027
	(!CKN * SE * !SI)	0.00009	0.00009	0.00010
	(!CKN * SE * !SI)	0.00002	0.00002	0.00002
	(!CKN * SE * !SI)	-0.00001	-0.00001	-0.00001
	(!CKN * SE * !SI)	-0.00028	-0.00028	-0.00026
	(!CKN * !SE * SI)	0.00111	0.00112	0.00113
	(!CKN * !SE * SI)	-0.00012	-0.00012	-0.00011
	(!CKN * !SE * SI)	0.00010	0.00011	0.00012
	(!CKN * !SE * SI)	0.00010	0.00011	0.00013
	(!CKN * !SE * !SI)	0.00110	0.00112	0.00113
	(!CKN * !SE * !SI)	-0.00012	-0.00012	-0.00011
	(!CKN * !SE * !SI)	0.00010	0.00011	0.00012
	(!CKN * !SE * !SI)	0.00010	0.00011	0.00013

Passive power(pJ) for SE rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNQX1H7H	**(CKN * D * SI)**	-0.00016	-0.00013	-0.00009
	(CKN * D * SI)	0.00001	0.00002	0.00002
	(CKN * D * SI)	-0.00002	-0.00002	-0.00000
	(CKN * D * SI)	0.00107	0.00110	0.00113
	(CKN * D * !SI)	0.00216	0.00220	0.00225
	(CKN * D * !SI)	-0.00008	-0.00008	-0.00006
	(CKN * D * !SI)	0.00006	0.00007	0.00007
	(CKN * D * !SI)	0.00295	0.00300	0.00307
	(CKN * !D * SI)	0.00135	0.00139	0.00146
	(CKN * !D * SI)	0.00012	0.00012	0.00012
	(CKN * !D * SI)	-0.00013	-0.00012	-0.00011
	(CKN * !D * SI)	0.00302	0.00307	0.00314
	(CKN * !D * !SI)	-0.00007	-0.00005	-0.00000
	(CKN * !D * !SI)	0.00001	0.00002	0.00003
	(CKN * !D * !SI)	-0.00003	-0.00002	-0.00002
	(CKN * !D * !SI)	0.00115	0.00118	0.00124
	(!CKN * D * SI)	-0.00016	-0.00013	-0.00009
	(!CKN * D * SI)	0.00002	0.00002	0.00002
	(!CKN * D * SI)	-0.00002	-0.00002	-0.00000
	(!CKN * D * SI)	0.00107	0.00110	0.00112
	(!CKN * D * !SI)	0.00114	0.00121	0.00128
	(!CKN * D * !SI)	-0.00009	-0.00008	-0.00007
	(!CKN * D * !SI)	0.00007	0.00008	0.00010
	(!CKN * D * !SI)	0.00187	0.00193	0.00199
	(!CKN * !D * SI)	-0.00021	-0.00016	-0.00009
	(!CKN * !D * SI)	0.00012	0.00012	0.00012
	(!CKN * !D * SI)	-0.00012	-0.00012	-0.00011
	(!CKN * !D * SI)	0.00152	0.00157	0.00164
	(!CKN * !D * !SI)	-0.00008	-0.00005	-0.00001
	(!CKN * !D * !SI)	0.00002	0.00002	0.00003
	(!CKN * !D * !SI)	-0.00003	-0.00002	-0.00001
	(!CKN * !D * !SI)	0.00115	0.00118	0.00121

Passive power(pJ) for SE falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNQX1H7H	**(CKN * D * SI)**	0.00111	0.00113	0.00117
	(CKN * D * SI)	-0.00002	-0.00002	-0.00001
	(CKN * D * SI)	0.00000	0.00002	0.00002
	(CKN * D * SI)	-0.00013	-0.00010	-0.00005
	(CKN * D * !SI)	0.00313	0.00315	0.00318
	(CKN * D * !SI)	0.00006	0.00008	0.00008
	(CKN * D * !SI)	-0.00007	-0.00007	-0.00006
	(CKN * D * !SI)	0.00234	0.00236	0.00239
	(CKN * !D * SI)	0.00270	0.00275	0.00282
	(CKN * !D * SI)	-0.00012	-0.00012	-0.00012
	(CKN * !D * SI)	0.00011	0.00013	0.00014
	(CKN * !D * SI)	0.00103	0.00108	0.00116
	(CKN * !D * !SI)	0.00100	0.00102	0.00106
	(CKN * !D * !SI)	-0.00002	-0.00002	-0.00001
	(CKN * !D * !SI)	0.00002	0.00003	0.00003
	(CKN * !D * !SI)	-0.00023	-0.00020	-0.00015
	(!CKN * D * SI)	0.00111	0.00113	0.00117
	(!CKN * D * SI)	-0.00002	-0.00002	-0.00001
	(!CKN * D * SI)	0.00002	0.00002	0.00002
	(!CKN * D * SI)	-0.00012	-0.00010	-0.00007
	(!CKN * D * !SI)	0.00160	0.00162	0.00167
	(!CKN * D * !SI)	0.00007	0.00008	0.00009
	(!CKN * D * !SI)	-0.00008	-0.00007	-0.00006
	(!CKN * D * !SI)	0.00087	0.00089	0.00091
	(!CKN * !D * SI)	0.00168	0.00173	0.00181
	(!CKN * !D * SI)	-0.00012	-0.00012	-0.00012
	(!CKN * !D * SI)	0.00012	0.00012	0.00012
	(!CKN * !D * SI)	-0.00006	-0.00001	0.00005
	(!CKN * !D * !SI)	0.00100	0.00102	0.00105
	(!CKN * !D * !SI)	-0.00002	-0.00002	-0.00001
	(!CKN * !D * !SI)	0.00002	0.00003	0.00003
	(!CKN * !D * !SI)	-0.00023	-0.00021	-0.00016

Passive power(pJ) for SI rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNQX1H7H	**(CKN * D * SE)**	0.00154	0.00156	0.00158
	(CKN * D * SE)	0.00010	0.00011	0.00011
	(CKN * D * SE)	-0.00011	-0.00011	-0.00011
	(CKN * D * SE)	0.00247	0.00248	0.00250
	(CKN * D * !SE)	-0.00010	-0.00010	-0.00009
	(CKN * D * !SE)	-0.00002	-0.00002	-0.00002
	(CKN * D * !SE)	0.00001	0.00001	0.00001
	(CKN * D * !SE)	0.00026	0.00026	0.00027
	(CKN * !D * SE)	0.00154	0.00156	0.00158
	(CKN * !D * SE)	0.00010	0.00011	0.00011
	(CKN * !D * SE)	-0.00011	-0.00011	-0.00011
	(CKN * !D * SE)	0.00247	0.00248	0.00250
	(CKN * !D * !SE)	-0.00014	-0.00014	-0.00013
	(CKN * !D * !SE)	-0.00002	-0.00002	-0.00001
	(CKN * !D * !SE)	0.00001	0.00001	0.00001
	(CKN * !D * !SE)	0.00022	0.00022	0.00023
	(!CKN * D * SE)	-0.00000	0.00001	0.00003
	(!CKN * D * SE)	0.00010	0.00011	0.00011
	(!CKN * D * SE)	-0.00011	-0.00011	-0.00010
	(!CKN * D * SE)	0.00099	0.00100	0.00102
	(!CKN * D * !SE)	-0.00010	-0.00010	-0.00009
	(!CKN * D * !SE)	-0.00002	-0.00002	-0.00002
	(!CKN * D * !SE)	0.00001	0.00001	0.00001
	(!CKN * D * !SE)	0.00026	0.00026	0.00026
	(!CKN * !D * SE)	-0.00000	0.00001	0.00003
	(!CKN * !D * SE)	0.00010	0.00011	0.00011
	(!CKN * !D * SE)	-0.00012	-0.00011	-0.00011
	(!CKN * !D * SE)	0.00098	0.00100	0.00102
	(!CKN * !D * !SE)	-0.00014	-0.00014	-0.00013
	(!CKN * !D * !SE)	-0.00002	-0.00002	-0.00002
	(!CKN * !D * !SE)	0.00001	0.00001	0.00001
	(!CKN * !D * !SE)	0.00022	0.00023	0.00023

Passive power(pJ) for SI falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

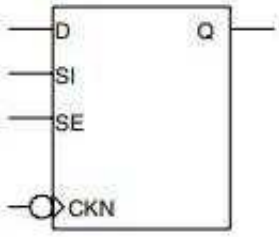
SDFFNQX1H7H	**(CKN * D * SE)**	0.00239	0.00243	0.00245
	(CKN * D * SE)	-0.00011	-0.00011	-0.00010
	(CKN * D * SE)	0.00011	0.00011	0.00013
	(CKN * D * SE)	0.00148	0.00150	0.00152
	(CKN * D * !SE)	0.00010	0.00011	0.00011
	(CKN * D * !SE)	0.00002	0.00002	0.00002
	(CKN * D * !SE)	-0.00001	-0.00001	-0.00001
	(CKN * D * !SE)	-0.00026	-0.00025	-0.00024
	(CKN * !D * SE)	0.00239	0.00243	0.00245
	(CKN * !D * SE)	-0.00011	-0.00011	-0.00010
	(CKN * !D * SE)	0.00011	0.00011	0.00011
	(CKN * !D * SE)	0.00148	0.00151	0.00154
	(CKN * !D * !SE)	0.00014	0.00014	0.00015
	(CKN * !D * !SE)	0.00001	0.00002	0.00002
	(CKN * !D * !SE)	-0.00001	-0.00001	-0.00001
	(CKN * !D * !SE)	-0.00022	-0.00021	-0.00019
	(!CKN * D * SE)	0.00139	0.00141	0.00143
	(!CKN * D * SE)	-0.00011	-0.00011	-0.00010
	(!CKN * D * SE)	0.00010	0.00011	0.00011
	(!CKN * D * SE)	0.00041	0.00043	0.00046
	(!CKN * D * !SE)	0.00011	0.00011	0.00011
	(!CKN * D * !SE)	0.00002	0.00002	0.00002
	(!CKN * D * !SE)	-0.00001	-0.00001	-0.00001
	(!CKN * D * !SE)	-0.00026	-0.00025	-0.00025
	(!CKN * !D * SE)	0.00139	0.00141	0.00144
	(!CKN * !D * SE)	-0.00011	-0.00011	-0.00010
	(!CKN * !D * SE)	0.00011	0.00011	0.00012
	(!CKN * !D * SE)	0.00041	0.00043	0.00044
	(!CKN * !D * !SE)	0.00014	0.00014	0.00015
	(!CKN * !D * !SE)	0.00002	0.00002	0.00002
	(!CKN * !D * !SE)	-0.00001	-0.00001	-0.00001
	(!CKN * !D * !SE)	-0.00022	-0.00022	-0.00021

SDFFNQX2H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The SDFFNQ cell is a negative-edge triggered, static D-type flip-flop with scan input (SI) and active-high scan enable (SE).



Truth Table

INPUT				OUTPUT
CKN	D	SE	SI	Q
F	0	0	x	0
F	x	1	0	0
F	x	1	1	1
F	1	0	x	1
x	x	x	x	IQ

Footprint

Cell Name	Area
SDFFNQX2H7H	9.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	CKN	D	SE	SI	Q
SDFFNQX2H7H	0.00110	0.00071	0.00209	0.00081	0.05998

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
SDFFNQX2H7H	0.00000	0.07072	0.07072

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFNQX2H7H	CKN->Q (FR)	(D * SE)	0.17051	0.36989	0.84112
	CKN->Q (FR)	(D * !SE * SI) + (!D * SE * !SI)	0.17054	0.36991	0.84126
	CKN->Q (FR)	(!SE * !SI)	0.17054	0.36991	0.84126
	CKN->Q (FR)	(!D * SI)	0.17051	0.36990	0.84113

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFNQX2H7H	CKN->Q (FF)	(D * SE)	0.27228	0.44560	0.81955
	CKN->Q (FF)	(D * !SE * SI) + (!D * SE * !SI)	0.27228	0.44559	0.81955
	CKN->Q (FF)	(!SE * !SI)	0.27232	0.44563	0.81961
	CKN->Q (FF)	(!D * SI)	0.27232	0.44563	0.81961

Constraint Information

Min Pulse Width (ns) for CKN:

Cell Name	High	Low
SDFFNQX2H7H	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNQX2H7H	**hold**	**CKN (F)**	-0.23173	-0.02204	0.18000
	setup	**CKN (F)**	-0.13743	0.08328	0.30540

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNQX2H7H	**hold**	**CKN (F)**	-0.34225	-0.14733	-0.01287
	setup	**CKN (F)**	0.02966	0.17142	0.37435

Constraints(ns) for SE rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNQX2H7H	**hold**	**CKN (F)**	-0.19985	-0.00620	0.19231
	setup	**CKN (F)**	0.10060	0.21845	0.34548

Constraints(ns) for SE falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNQX2H7H	**hold**	**CKN (F)**	-0.23000	-0.04961	0.14773
	setup	**CKN (F)**	0.00882	0.14400	0.32738

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNQX2H7H	hold	CKN (F)	-0.23559	-0.02492	0.17799
	setup	CKN (F)	-0.13479	0.08783	0.31208

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNQX2H7H	hold	CKN (F)	-0.38943	-0.19088	-0.05777
	setup	CKN (F)	0.07901	0.21886	0.42908

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFNQX2H7H	CKN	(D * SE)	0.00445	0.00457	0.00470
	CKN	(D * SE)	0.00002	0.00005	0.00005
	CKN	(D * SE)	-0.00004	-0.00002	0.00000
	CKN	(D * SE)	0.00381	0.00393	0.00406
	CKN	(D * !SE * SI) + (!D * SE * !SI)	0.00445	0.00457	0.00470
	CKN	(D * !SE * SI) + (!D * SE * !SI)	0.00003	0.00005	0.00005
	CKN	(D * !SE * SI) + (!D * SE * !SI)	-0.00004	-0.00002	0.00000
	CKN	(D * !SE * SI) + (!D * SE * !SI)	0.00381	0.00393	0.00406
	CKN	(!SE * !SI)	0.00445	0.00457	0.00470
	CKN	(!SE * !SI)	0.00003	0.00005	0.00005
	CKN	(!SE * !SI)	-0.00004	-0.00002	0.00000
	CKN	(!SE * !SI)	0.00381	0.00393	0.00406
	CKN	(!D * SI)	0.00445	0.00457	0.00470
	CKN	(!D * SI)	0.00002	0.00005	0.00005
	CKN	(!D * SI)	-0.00005	-0.00002	0.00000
	CKN	(!D * SI)	0.00381	0.00393	0.00405

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFNQX2H7H	CKN	(D * SE)	0.00521	0.00532	0.00544
	CKN	(D * SE)	-0.00005	-0.00002	-0.00001
	CKN	(D * SE)	0.00001	0.00004	0.00005
	CKN	(D * SE)	0.00443	0.00455	0.00466
	CKN	(D * !SE * SI) + (!D * SE * !SI)	0.00521	0.00532	0.00544
	CKN	(D * !SE * SI) + (!D * SE * !SI)	-0.00005	-0.00003	-0.00000
	CKN	(D * !SE * SI) + (!D * SE * !SI)	0.00002	0.00004	0.00005
	CKN	(D * !SE * SI) + (!D * SE * !SI)	0.00443	0.00455	0.00466
	CKN	(!SE * !SI)	0.00521	0.00532	0.00544
	CKN	(!SE * !SI)	-0.00004	-0.00003	-0.00000
	CKN	(!SE * !SI)	0.00002	0.00004	0.00005
	CKN	(!SE * !SI)	0.00443	0.00455	0.00466
	CKN	(!D * SI)	0.00521	0.00532	0.00544
	CKN	(!D * SI)	-0.00004	-0.00003	-0.00000
	CKN	(!D * SI)	0.00002	0.00004	0.00005
	CKN	(!D * SI)	0.00443	0.00455	0.00466

Passive power(pJ) for CKN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNQX2H7H	**(D * SE * SI)**	0.00376	0.00380	0.00384
	(D * SE * SI)	-0.00001	-0.00001	-0.00000
	(D * SE * SI)	-0.00000	-0.00000	0.00000
	(D * SE * SI)	0.00448	0.00452	0.00457
	(D * SE * !SI)	0.00307	0.00315	0.00323
	(D * SE * !SI)	-0.00000	-0.00000	0.00000
	(D * SE * !SI)	-0.00000	0.00000	0.00001
	(D * SE * !SI)	0.00376	0.00384	0.00391
	(D * !SE * SI)	0.00376	0.00380	0.00384
	(D * !SE * SI)	-0.00001	-0.00001	-0.00000
	(D * !SE * SI)	-0.00000	-0.00000	0.00000
	(D * !SE * SI)	0.00449	0.00452	0.00457
	(D * !SE * !SI)	0.00376	0.00380	0.00384
	(D * !SE * !SI)	-0.00001	-0.00001	-0.00000
	(D * !SE * !SI)	-0.00000	-0.00000	0.00000
	(D * !SE * !SI)	0.00449	0.00452	0.00457
	(!D * SE * SI)	0.00376	0.00380	0.00384
	(!D * SE * SI)	-0.00001	-0.00001	-0.00000
	(!D * SE * SI)	-0.00000	-0.00000	0.00000
	(!D * SE * SI)	0.00448	0.00452	0.00457
	(!D * SE * !SI)	0.00307	0.00315	0.00321
	(!D * SE * !SI)	-0.00000	-0.00000	0.00000
	(!D * SE * !SI)	-0.00000	0.00000	0.00001
	(!D * SE * !SI)	0.00376	0.00384	0.00392
	(!D * !SE * SI)	0.00307	0.00315	0.00322
	(!D * !SE * SI)	-0.00001	-0.00000	0.00000
	(!D * !SE * SI)	-0.00000	-0.00000	0.00000
	(!D * !SE * SI)	0.00377	0.00385	0.00392
	(!D * !SE * !SI)	0.00307	0.00315	0.00322
	(!D * !SE * !SI)	-0.00001	-0.00000	0.00000
	(!D * !SE * !SI)	-0.00000	0.00000	0.00001
	(!D * !SE * !SI)	0.00377	0.00385	0.00392

Passive power(pJ) for CKN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNQX2H7H	**(D * SE * SI)**	0.00252	0.00257	0.00262
	(D * SE * SI)	0.00002	0.00002	0.00002
	(D * SE * SI)	0.00000	0.00000	0.00000
	(D * SE * SI)	0.00182	0.00187	0.00193
	(D * SE * !SI)	0.00269	0.00273	0.00279
	(D * SE * !SI)	0.00000	0.00000	0.00000
	(D * SE * !SI)	0.00002	0.00002	0.00003
	(D * SE * !SI)	0.00195	0.00199	0.00204
	(D * !SE * SI)	0.00252	0.00257	0.00262
	(D * !SE * SI)	0.00002	0.00002	0.00002
	(D * !SE * SI)	0.00000	0.00000	0.00000
	(D * !SE * SI)	0.00183	0.00187	0.00193
	(D * !SE * !SI)	0.00252	0.00257	0.00262
	(D * !SE * !SI)	0.00002	0.00002	0.00002
	(D * !SE * !SI)	0.00000	0.00000	0.00000
	(D * !SE * !SI)	0.00183	0.00187	0.00193
	(!D * SE * SI)	0.00252	0.00257	0.00262
	(!D * SE * SI)	0.00002	0.00002	0.00002
	(!D * SE * SI)	0.00000	0.00000	0.00000
	(!D * SE * SI)	0.00182	0.00187	0.00193
	(!D * SE * !SI)	0.00269	0.00273	0.00279
	(!D * SE * !SI)	0.00000	0.00000	0.00000
	(!D * SE * !SI)	0.00002	0.00002	0.00003
	(!D * SE * !SI)	0.00195	0.00199	0.00204
	(!D * !SE * SI)	0.00269	0.00273	0.00279
	(!D * !SE * SI)	0.00000	0.00000	0.00001
	(!D * !SE * SI)	0.00001	0.00002	0.00002
	(!D * !SE * SI)	0.00195	0.00200	0.00206
	(!D * !SE * !SI)	0.00269	0.00273	0.00278
	(!D * !SE * !SI)	0.00000	0.00000	0.00001
	(!D * !SE * !SI)	0.00002	0.00002	0.00003
	(!D * !SE * !SI)	0.00195	0.00199	0.00204

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNQX2H7H	**(CKN * SE * SI)**	-0.00010	-0.00009	-0.00007
	(CKN * SE * SI)	-0.00002	-0.00002	-0.00002
	(CKN * SE * SI)	0.00001	0.00001	0.00002
	(CKN * SE * SI)	0.00028	0.00028	0.00029
	(CKN * SE * !SI)	-0.00010	-0.00009	-0.00007
	(CKN * SE * !SI)	-0.00002	-0.00002	-0.00002
	(CKN * SE * !SI)	0.00001	0.00001	0.00001
	(CKN * SE * !SI)	0.00028	0.00029	0.00029
	(CKN * !SE * SI)	0.00189	0.00190	0.00192
	(CKN * !SE * SI)	0.00011	0.00012	0.00012
	(CKN * !SE * SI)	-0.00012	-0.00012	-0.00011
	(CKN * !SE * SI)	0.00284	0.00286	0.00287
	(CKN * !SE * !SI)	0.00189	0.00190	0.00192
	(CKN * !SE * !SI)	0.00011	0.00012	0.00012
	(CKN * !SE * !SI)	-0.00012	-0.00012	-0.00011
	(CKN * !SE * !SI)	0.00284	0.00286	0.00287
	(!CKN * SE * SI)	-0.00010	-0.00009	-0.00008
	(!CKN * SE * SI)	-0.00002	-0.00002	-0.00002
	(!CKN * SE * SI)	0.00001	0.00002	0.00002
	(!CKN * SE * SI)	0.00028	0.00029	0.00029
	(!CKN * SE * !SI)	-0.00010	-0.00009	-0.00008
	(!CKN * SE * !SI)	-0.00002	-0.00002	-0.00002
	(!CKN * SE * !SI)	0.00001	0.00001	0.00001
	(!CKN * SE * !SI)	0.00028	0.00029	0.00029
	(!CKN * !SE * SI)	0.00029	0.00030	0.00031
	(!CKN * !SE * SI)	0.00012	0.00013	0.00013
	(!CKN * !SE * SI)	-0.00012	-0.00011	-0.00011
	(!CKN * !SE * SI)	0.00132	0.00133	0.00135
	(!CKN * !SE * !SI)	0.00029	0.00030	0.00031
	(!CKN * !SE * !SI)	0.00012	0.00013	0.00013
	(!CKN * !SE * !SI)	-0.00012	-0.00012	-0.00011
	(!CKN * !SE * !SI)	0.00132	0.00133	0.00135

Passive power(pJ) for D falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNQX2H7H	**(CKN * SE * SI)**	0.00009	0.00010	0.00010
	(CKN * SE * SI)	0.00002	0.00002	0.00002
	(CKN * SE * SI)	-0.00002	-0.00001	-0.00001
	(CKN * SE * SI)	-0.00029	-0.00028	-0.00027
	(CKN * SE * !SI)	0.00010	0.00010	0.00010
	(CKN * SE * !SI)	0.00002	0.00002	0.00002
	(CKN * SE * !SI)	-0.00001	-0.00001	-0.00001
	(CKN * SE * !SI)	-0.00029	-0.00028	-0.00026
	(CKN * !SE * SI)	0.00215	0.00217	0.00219
	(CKN * !SE * SI)	-0.00012	-0.00012	-0.00011
	(CKN * !SE * SI)	0.00011	0.00012	0.00013
	(CKN * !SE * SI)	0.00120	0.00122	0.00123
	(CKN * !SE * !SI)	0.00215	0.00217	0.00220
	(CKN * !SE * !SI)	-0.00012	-0.00012	-0.00011
	(CKN * !SE * !SI)	0.00011	0.00012	0.00012
	(CKN * !SE * !SI)	0.00120	0.00121	0.00122
	(!CKN * SE * SI)	0.00009	0.00010	0.00010
	(!CKN * SE * SI)	0.00002	0.00002	0.00002
	(!CKN * SE * SI)	-0.00002	-0.00002	-0.00001
	(!CKN * SE * SI)	-0.00029	-0.00028	-0.00027
	(!CKN * SE * !SI)	0.00010	0.00010	0.00010
	(!CKN * SE * !SI)	0.00002	0.00002	0.00002
	(!CKN * SE * !SI)	-0.00001	-0.00001	-0.00001
	(!CKN * SE * !SI)	-0.00029	-0.00028	-0.00026
	(!CKN * !SE * SI)	0.00117	0.00118	0.00119
	(!CKN * !SE * SI)	-0.00013	-0.00012	-0.00012
	(!CKN * !SE * SI)	0.00011	0.00011	0.00012
	(!CKN * !SE * SI)	0.00014	0.00015	0.00017
	(!CKN * !SE * !SI)	0.00117	0.00118	0.00120
	(!CKN * !SE * !SI)	-0.00013	-0.00013	-0.00012
	(!CKN * !SE * !SI)	0.00011	0.00012	0.00012
	(!CKN * !SE * !SI)	0.00014	0.00015	0.00015

Passive power(pJ) for SE rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNQX2H7H	**(CKN * D * SI)**	-0.00016	-0.00013	-0.00009
	(CKN * D * SI)	0.00001	0.00002	0.00002
	(CKN * D * SI)	-0.00003	-0.00002	-0.00000
	(CKN * D * SI)	0.00109	0.00112	0.00117
	(CKN * D * !SI)	0.00219	0.00224	0.00230
	(CKN * D * !SI)	-0.00008	-0.00008	-0.00007
	(CKN * D * !SI)	0.00006	0.00007	0.00008
	(CKN * D * !SI)	0.00301	0.00306	0.00313
	(CKN * !D * SI)	0.00136	0.00141	0.00148
	(CKN * !D * SI)	0.00012	0.00012	0.00012
	(CKN * !D * SI)	-0.00013	-0.00013	-0.00012
	(CKN * !D * SI)	0.00305	0.00310	0.00317
	(CKN * !D * !SI)	-0.00008	-0.00005	-0.00001
	(CKN * !D * !SI)	0.00002	0.00002	0.00002
	(CKN * !D * !SI)	-0.00003	-0.00002	-0.00001
	(CKN * !D * !SI)	0.00117	0.00119	0.00121
	(!CKN * D * SI)	-0.00016	-0.00013	-0.00009
	(!CKN * D * SI)	0.00001	0.00002	0.00002
	(!CKN * D * SI)	-0.00003	-0.00002	-0.00002
	(!CKN * D * SI)	0.00109	0.00111	0.00115
	(!CKN * D * !SI)	0.00119	0.00126	0.00134
	(!CKN * D * !SI)	-0.00009	-0.00008	-0.00007
	(!CKN * D * !SI)	0.00005	0.00007	0.00008
	(!CKN * D * !SI)	0.00193	0.00200	0.00208
	(!CKN * !D * SI)	-0.00025	-0.00020	-0.00013
	(!CKN * !D * SI)	0.00012	0.00012	0.00013
	(!CKN * !D * SI)	-0.00013	-0.00012	-0.00011
	(!CKN * !D * SI)	0.00151	0.00156	0.00162
	(!CKN * !D * !SI)	-0.00008	-0.00005	-0.00000
	(!CKN * !D * !SI)	0.00000	0.00002	0.00002
	(!CKN * !D * !SI)	-0.00003	-0.00002	-0.00001
	(!CKN * !D * !SI)	0.00117	0.00119	0.00123

Passive power(pJ) for SE falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNQX2H7H	**(CKN * D * SI)**	0.00112	0.00114	0.00118
	(CKN * D * SI)	-0.00002	-0.00002	-0.00001
	(CKN * D * SI)	0.00000	0.00002	0.00003
	(CKN * D * SI)	-0.00013	-0.00010	-0.00005
	(CKN * D * !SI)	0.00317	0.00319	0.00322
	(CKN * D * !SI)	0.00007	0.00008	0.00009
	(CKN * D * !SI)	-0.00008	-0.00007	-0.00006
	(CKN * D * !SI)	0.00236	0.00238	0.00240
	(CKN * !D * SI)	0.00275	0.00279	0.00284
	(CKN * !D * SI)	-0.00012	-0.00012	-0.00010
	(CKN * !D * SI)	0.00012	0.00013	0.00014
	(CKN * !D * SI)	0.00106	0.00111	0.00118
	(CKN * !D * !SI)	0.00101	0.00103	0.00107
	(CKN * !D * !SI)	-0.00002	-0.00002	0.00001
	(CKN * !D * !SI)	0.00002	0.00003	0.00003
	(CKN * !D * !SI)	-0.00024	-0.00021	-0.00015
	(!CKN * D * SI)	0.00111	0.00114	0.00116
	(!CKN * D * SI)	-0.00001	-0.00001	-0.00000
	(!CKN * D * SI)	0.00002	0.00002	0.00003
	(!CKN * D * SI)	-0.00013	-0.00010	-0.00006
	(!CKN * D * !SI)	0.00158	0.00161	0.00166
	(!CKN * D * !SI)	0.00007	0.00008	0.00009
	(!CKN * D * !SI)	-0.00008	-0.00007	-0.00005
	(!CKN * D * !SI)	0.00085	0.00087	0.00091
	(!CKN * !D * SI)	0.00174	0.00179	0.00187
	(!CKN * !D * SI)	-0.00012	-0.00012	-0.00012
	(!CKN * !D * SI)	0.00013	0.00013	0.00013
	(!CKN * !D * SI)	-0.00003	0.00002	0.00008
	(!CKN * !D * !SI)	0.00101	0.00103	0.00106
	(!CKN * !D * !SI)	-0.00002	-0.00002	-0.00000
	(!CKN * !D * !SI)	0.00003	0.00003	0.00004
	(!CKN * !D * !SI)	-0.00024	-0.00022	-0.00019

Passive power(pJ) for SI rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNQX2H7H	**(CKN * D * SE)**	0.00156	0.00158	0.00159
	(CKN * D * SE)	0.00010	0.00011	0.00011
	(CKN * D * SE)	-0.00012	-0.00011	-0.00011
	(CKN * D * SE)	0.00247	0.00249	0.00251
	(CKN * D * !SE)	-0.00010	-0.00010	-0.00009
	(CKN * D * !SE)	-0.00002	-0.00002	-0.00001
	(CKN * D * !SE)	0.00001	0.00001	0.00002
	(CKN * D * !SE)	0.00025	0.00025	0.00026
	(CKN * !D * SE)	0.00156	0.00158	0.00158
	(CKN * !D * SE)	0.00011	0.00011	0.00012
	(CKN * !D * SE)	-0.00012	-0.00011	-0.00011
	(CKN * !D * SE)	0.00247	0.00249	0.00251
	(CKN * !D * !SE)	-0.00014	-0.00014	-0.00013
	(CKN * !D * !SE)	-0.00002	-0.00002	-0.00002
	(CKN * !D * !SE)	0.00001	0.00001	0.00001
	(CKN * !D * !SE)	0.00021	0.00022	0.00022
	(!CKN * D * SE)	-0.00004	-0.00003	-0.00001
	(!CKN * D * SE)	0.00011	0.00011	0.00011
	(!CKN * D * SE)	-0.00011	-0.00011	-0.00011
	(!CKN * D * SE)	0.00095	0.00096	0.00097
	(!CKN * D * !SE)	-0.00010	-0.00010	-0.00009
	(!CKN * D * !SE)	-0.00002	-0.00002	-0.00002
	(!CKN * D * !SE)	0.00001	0.00001	0.00001
	(!CKN * D * !SE)	0.00025	0.00025	0.00025
	(!CKN * !D * SE)	-0.00004	-0.00003	-0.00001
	(!CKN * !D * SE)	0.00011	0.00011	0.00011
	(!CKN * !D * SE)	-0.00011	-0.00011	-0.00010
	(!CKN * !D * SE)	0.00095	0.00096	0.00097
	(!CKN * !D * !SE)	-0.00014	-0.00014	-0.00013
	(!CKN * !D * !SE)	-0.00002	-0.00002	-0.00002
	(!CKN * !D * !SE)	0.00001	0.00001	0.00001
	(!CKN * !D * !SE)	0.00022	0.00022	0.00022

Passive power(pJ) for SI falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

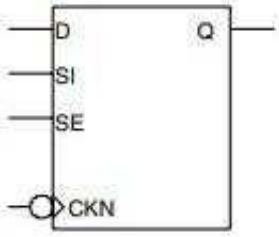
SDFFNQX2H7H	**(CKN * D * SE)**	0.00242	0.00246	0.00248
	(CKN * D * SE)	-0.00011	-0.00011	-0.00010
	(CKN * D * SE)	0.00011	0.00011	0.00012
	(CKN * D * SE)	0.00152	0.00155	0.00158
	(CKN * D * !SE)	0.00010	0.00011	0.00011
	(CKN * D * !SE)	0.00001	0.00002	0.00002
	(CKN * D * !SE)	-0.00002	-0.00001	-0.00001
	(CKN * D * !SE)	-0.00025	-0.00024	-0.00023
	(CKN * !D * SE)	0.00242	0.00246	0.00248
	(CKN * !D * SE)	-0.00011	-0.00011	-0.00011
	(CKN * !D * SE)	0.00011	0.00012	0.00013
	(CKN * !D * SE)	0.00152	0.00155	0.00157
	(CKN * !D * !SE)	0.00014	0.00014	0.00015
	(CKN * !D * !SE)	0.00002	0.00002	0.00002
	(CKN * !D * !SE)	-0.00001	-0.00001	-0.00001
	(CKN * !D * !SE)	-0.00022	-0.00021	-0.00019
	(!CKN * D * SE)	0.00145	0.00146	0.00149
	(!CKN * D * SE)	-0.00011	-0.00011	-0.00011
	(!CKN * D * SE)	0.00011	0.00011	0.00012
	(!CKN * D * SE)	0.00046	0.00048	0.00050
	(!CKN * D * !SE)	0.00010	0.00011	0.00011
	(!CKN * D * !SE)	0.00002	0.00002	0.00002
	(!CKN * D * !SE)	-0.00001	-0.00001	-0.00001
	(!CKN * D * !SE)	-0.00025	-0.00024	-0.00023
	(!CKN * !D * SE)	0.00145	0.00146	0.00149
	(!CKN * !D * SE)	-0.00011	-0.00011	-0.00011
	(!CKN * !D * SE)	0.00010	0.00011	0.00011
	(!CKN * !D * SE)	0.00046	0.00048	0.00050
	(!CKN * !D * !SE)	0.00014	0.00014	0.00015
	(!CKN * !D * !SE)	0.00002	0.00002	0.00002
	(!CKN * !D * !SE)	-0.00001	-0.00001	-0.00001
	(!CKN * !D * !SE)	-0.00022	-0.00021	-0.00020

SDFFNQX3H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The SDFFNQ cell is a negative-edge triggered, static D-type flip-flop with scan input (SI) and active-high scan enable (SE).



Truth Table

INPUT				OUTPUT
CKN	D	SE	SI	Q
F	0	0	x	0
F	x	1	0	0
F	x	1	1	1
F	1	0	x	1
x	x	x	x	IQ

Footprint

Cell Name	Area
SDFFNQX3H7H	9.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	CKN	D	SE	SI	Q
SDFFNQX3H7H	0.00109	0.00070	0.00209	0.00077	0.08555

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
SDFFNQX3H7H	0.00000	0.08101	0.08722

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFNQX3H7H	CKN->Q (FR)	(D * SE)	0.16660	0.36705	0.83531
	CKN->Q (FR)	(D * !SE * SI) + (!D * SE * !SI)	0.16661	0.36703	0.83530
	CKN->Q (FR)	(!SE * !SI)	0.16661	0.36703	0.83530
	CKN->Q (FR)	(!D * SI)	0.16660	0.36705	0.83531

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFNQX3H7H	CKN->Q (FF)	(D * SE)	0.26439	0.44295	0.82134
	CKN->Q (FF)	(D * !SE * SI) + (!D * SE * !SI)	0.26439	0.44294	0.82134
	CKN->Q (FF)	(!SE * !SI)	0.26442	0.44299	0.82142
	CKN->Q (FF)	(!D * SI)	0.26442	0.44299	0.82142

Constraint Information

Min Pulse Width (ns) for CKN:

Cell Name	High	Low
SDFFNQX3H7H	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNQX3H7H	**hold**	**CKN (F)**	-0.23439	-0.02778	0.16841
	setup	**CKN (F)**	-0.13048	0.08407	0.30465

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNQX3H7H	**hold**	**CKN (F)**	-0.34314	-0.14847	-0.01624
	setup	**CKN (F)**	0.03558	0.17188	0.37713

Constraints(ns) for SE rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNQX3H7H	**hold**	**CKN (F)**	-0.20682	-0.01422	0.18156
	setup	**CKN (F)**	0.10129	0.21580	0.34171

Constraints(ns) for SE falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNQX3H7H	**hold**	**CKN (F)**	-0.23283	-0.05324	0.13975
	setup	**CKN (F)**	0.01195	0.14523	0.32930

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNQX3H7H	hold	CKN (F)	-0.24121	-0.03082	0.16867
	setup	CKN (F)	-0.13133	0.08838	0.31111

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNQX3H7H	hold	CKN (F)	-0.38998	-0.19023	-0.05942
	setup	CKN (F)	0.08042	0.21782	0.42803

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFNQX3H7H	CKN	(D * SE)	0.00436	0.00449	0.00462
	CKN	(D * SE)	0.00001	0.00002	0.00006
	CKN	(D * SE)	-0.00003	-0.00000	0.00005
	CKN	(D * SE)	0.00366	0.00379	0.00393
	CKN	(D * !SE * SI) + (!D * SE * !SI)	0.00436	0.00449	0.00462
	CKN	(D * !SE * SI) + (!D * SE * !SI)	0.00001	0.00002	0.00006
	CKN	(D * !SE * SI) + (!D * SE * !SI)	-0.00002	-0.00000	0.00003
	CKN	(D * !SE * SI) + (!D * SE * !SI)	0.00366	0.00379	0.00393
	CKN	(!SE * !SI)	0.00436	0.00449	0.00462
	CKN	(!SE * !SI)	0.00001	0.00002	0.00006
	CKN	(!SE * !SI)	-0.00003	-0.00000	0.00003
	CKN	(!SE * !SI)	0.00366	0.00379	0.00393
	CKN	(!D * SI)	0.00436	0.00449	0.00462
	CKN	(!D * SI)	0.00001	0.00002	0.00006
	CKN	(!D * SI)	-0.00003	0.00000	0.00004
	CKN	(!D * SI)	0.00366	0.00379	0.00393

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFNQX3H7H	CKN	(D * SE)	0.00502	0.00513	0.00526
	CKN	(D * SE)	-0.00002	0.00000	0.00003
	CKN	(D * SE)	0.00000	0.00002	0.00003
	CKN	(D * SE)	0.00430	0.00441	0.00453
	CKN	(D * !SE * SI) + (!D * SE * !SI)	0.00501	0.00513	0.00526
	CKN	(D * !SE * SI) + (!D * SE * !SI)	-0.00002	0.00000	0.00003
	CKN	(D * !SE * SI) + (!D * SE * !SI)	0.00001	0.00002	0.00002
	CKN	(D * !SE * SI) + (!D * SE * !SI)	0.00430	0.00441	0.00453
	CKN	(!SE * !SI)	0.00501	0.00513	0.00526
	CKN	(!SE * !SI)	0.00000	0.00001	0.00003
	CKN	(!SE * !SI)	0.00000	0.00002	0.00003
	CKN	(!SE * !SI)	0.00430	0.00441	0.00453
	CKN	(!D * SI)	0.00501	0.00513	0.00526
	CKN	(!D * SI)	0.00000	0.00001	0.00002
	CKN	(!D * SI)	0.00001	0.00002	0.00003
	CKN	(!D * SI)	0.00430	0.00441	0.00453

Passive power(pJ) for CKN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNQX3H7H	**(D * SE * SI)**	0.00347	0.00350	0.00353
	(D * SE * SI)	-0.00001	-0.00000	0.00000
	(D * SE * SI)	-0.00000	-0.00000	0.00000
	(D * SE * SI)	0.00419	0.00423	0.00427
	(D * SE * !SI)	0.00294	0.00300	0.00306
	(D * SE * !SI)	-0.00000	-0.00000	-0.00000
	(D * SE * !SI)	-0.00000	0.00000	0.00001
	(D * SE * !SI)	0.00362	0.00369	0.00375
	(D * !SE * SI)	0.00347	0.00350	0.00353
	(D * !SE * SI)	-0.00001	-0.00000	-0.00000
	(D * !SE * SI)	-0.00001	-0.00000	0.00000
	(D * !SE * SI)	0.00420	0.00423	0.00426
	(D * !SE * !SI)	0.00347	0.00350	0.00353
	(D * !SE * !SI)	-0.00001	-0.00000	-0.00000
	(D * !SE * !SI)	-0.00001	-0.00000	0.00000
	(D * !SE * !SI)	0.00420	0.00423	0.00426
	(!D * SE * SI)	0.00347	0.00350	0.00353
	(!D * SE * SI)	-0.00001	-0.00000	0.00000
	(!D * SE * SI)	-0.00000	-0.00000	0.00000
	(!D * SE * SI)	0.00419	0.00422	0.00425
	(!D * SE * !SI)	0.00294	0.00301	0.00307
	(!D * SE * !SI)	-0.00000	-0.00000	-0.00000
	(!D * SE * !SI)	-0.00000	0.00000	0.00001
	(!D * SE * !SI)	0.00362	0.00369	0.00375
	(!D * !SE * SI)	0.00294	0.00301	0.00307
	(!D * !SE * SI)	-0.00000	-0.00000	0.00000
	(!D * !SE * SI)	-0.00000	0.00000	0.00001
	(!D * !SE * SI)	0.00362	0.00369	0.00376
	(!D * !SE * !SI)	0.00294	0.00301	0.00307
	(!D * !SE * !SI)	-0.00000	-0.00000	0.00000
	(!D * !SE * !SI)	-0.00000	0.00000	0.00001
	(!D * !SE * !SI)	0.00362	0.00369	0.00376

Passive power(pJ) for CKN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNQX3H7H	**(D * SE * SI)**	0.00232	0.00236	0.00241
	(D * SE * SI)	0.00001	0.00002	0.00002
	(D * SE * SI)	0.00000	0.00000	0.00000
	(D * SE * SI)	0.00162	0.00166	0.00171
	(D * SE * !SI)	0.00249	0.00253	0.00258
	(D * SE * !SI)	0.00000	0.00000	0.00000
	(D * SE * !SI)	0.00002	0.00002	0.00003
	(D * SE * !SI)	0.00176	0.00180	0.00184
	(D * !SE * SI)	0.00232	0.00235	0.00240
	(D * !SE * SI)	0.00002	0.00002	0.00002
	(D * !SE * SI)	0.00000	0.00000	0.00001
	(D * !SE * SI)	0.00162	0.00166	0.00170
	(D * !SE * !SI)	0.00232	0.00235	0.00240
	(D * !SE * !SI)	0.00002	0.00002	0.00002
	(D * !SE * !SI)	0.00000	0.00000	0.00001
	(D * !SE * !SI)	0.00162	0.00166	0.00170
	(!D * SE * SI)	0.00232	0.00236	0.00241
	(!D * SE * SI)	0.00001	0.00002	0.00002
	(!D * SE * SI)	0.00000	0.00000	0.00000
	(!D * SE * SI)	0.00162	0.00166	0.00171
	(!D * SE * !SI)	0.00249	0.00253	0.00258
	(!D * SE * !SI)	0.00000	0.00000	0.00000
	(!D * SE * !SI)	0.00002	0.00002	0.00003
	(!D * SE * !SI)	0.00176	0.00180	0.00184
	(!D * !SE * SI)	0.00250	0.00253	0.00258
	(!D * !SE * SI)	0.00000	0.00000	0.00000
	(!D * !SE * SI)	0.00002	0.00002	0.00003
	(!D * !SE * SI)	0.00176	0.00180	0.00184
	(!D * !SE * !SI)	0.00250	0.00253	0.00258
	(!D * !SE * !SI)	0.00000	0.00000	0.00000
	(!D * !SE * !SI)	0.00002	0.00002	0.00003
	(!D * !SE * !SI)	0.00176	0.00180	0.00184

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNQX3H7H	**(CKN * SE * SI)**	-0.00010	-0.00009	-0.00007
	(CKN * SE * SI)	-0.00002	-0.00002	-0.00002
	(CKN * SE * SI)	0.00001	0.00001	0.00002
	(CKN * SE * SI)	0.00029	0.00029	0.00029
	(CKN * SE * !SI)	-0.00009	-0.00009	-0.00008
	(CKN * SE * !SI)	-0.00002	-0.00002	-0.00002
	(CKN * SE * !SI)	0.00001	0.00001	0.00001
	(CKN * SE * !SI)	0.00029	0.00029	0.00029
	(CKN * !SE * SI)	0.00186	0.00188	0.00189
	(CKN * !SE * SI)	0.00011	0.00012	0.00012
	(CKN * !SE * SI)	-0.00012	-0.00012	-0.00011
	(CKN * !SE * SI)	0.00281	0.00283	0.00285
	(CKN * !SE * !SI)	0.00187	0.00188	0.00189
	(CKN * !SE * !SI)	0.00011	0.00012	0.00012
	(CKN * !SE * !SI)	-0.00012	-0.00012	-0.00011
	(CKN * !SE * !SI)	0.00282	0.00283	0.00286
	(!CKN * SE * SI)	-0.00010	-0.00009	-0.00008
	(!CKN * SE * SI)	-0.00002	-0.00002	-0.00002
	(!CKN * SE * SI)	0.00001	0.00002	0.00002
	(!CKN * SE * SI)	0.00029	0.00029	0.00029
	(!CKN * SE * !SI)	-0.00010	-0.00009	-0.00008
	(!CKN * SE * !SI)	-0.00002	-0.00002	-0.00002
	(!CKN * SE * !SI)	0.00001	0.00001	0.00001
	(!CKN * SE * !SI)	0.00029	0.00029	0.00029
	(!CKN * !SE * SI)	0.00028	0.00028	0.00030
	(!CKN * !SE * SI)	0.00012	0.00012	0.00013
	(!CKN * !SE * SI)	-0.00011	-0.00011	-0.00011
	(!CKN * !SE * SI)	0.00130	0.00131	0.00131
	(!CKN * !SE * !SI)	0.00028	0.00029	0.00030
	(!CKN * !SE * !SI)	0.00012	0.00012	0.00013
	(!CKN * !SE * !SI)	-0.00012	-0.00011	-0.00011
	(!CKN * !SE * !SI)	0.00130	0.00131	0.00132

Passive power(pJ) for D falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNQX3H7H	**(CKN * SE * SI)**	0.00009	0.00010	0.00010
	(CKN * SE * SI)	0.00002	0.00002	0.00002
	(CKN * SE * SI)	-0.00002	-0.00001	-0.00001
	(CKN * SE * SI)	-0.00029	-0.00028	-0.00027
	(CKN * SE * !SI)	0.00009	0.00010	0.00010
	(CKN * SE * !SI)	0.00002	0.00002	0.00002
	(CKN * SE * !SI)	-0.00001	-0.00001	-0.00001
	(CKN * SE * !SI)	-0.00029	-0.00028	-0.00027
	(CKN * !SE * SI)	0.00218	0.00220	0.00222
	(CKN * !SE * SI)	-0.00012	-0.00012	-0.00011
	(CKN * !SE * SI)	0.00011	0.00012	0.00012
	(CKN * !SE * SI)	0.00122	0.00124	0.00125
	(CKN * !SE * !SI)	0.00218	0.00220	0.00222
	(CKN * !SE * !SI)	-0.00012	-0.00012	-0.00011
	(CKN * !SE * !SI)	0.00011	0.00012	0.00012
	(CKN * !SE * !SI)	0.00123	0.00124	0.00125
	(!CKN * SE * SI)	0.00010	0.00010	0.00010
	(!CKN * SE * SI)	0.00002	0.00002	0.00002
	(!CKN * SE * SI)	-0.00002	-0.00002	-0.00001
	(!CKN * SE * SI)	-0.00029	-0.00028	-0.00028
	(!CKN * SE * !SI)	0.00010	0.00010	0.00010
	(!CKN * SE * !SI)	0.00002	0.00002	0.00002
	(!CKN * SE * !SI)	-0.00001	-0.00001	-0.00001
	(!CKN * SE * !SI)	-0.00029	-0.00028	-0.00027
	(!CKN * !SE * SI)	0.00114	0.00115	0.00117
	(!CKN * !SE * SI)	-0.00013	-0.00012	-0.00012
	(!CKN * !SE * SI)	0.00011	0.00011	0.00011
	(!CKN * !SE * SI)	0.00011	0.00012	0.00013
	(!CKN * !SE * !SI)	0.00114	0.00115	0.00116
	(!CKN * !SE * !SI)	-0.00013	-0.00012	-0.00012
	(!CKN * !SE * !SI)	0.00011	0.00012	0.00012
	(!CKN * !SE * !SI)	0.00011	0.00012	0.00013

Passive power(pJ) for SE rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNQX3H7H	**(CKN * D * SI)**	-0.00015	-0.00012	-0.00008
	(CKN * D * SI)	0.00001	0.00002	0.00002
	(CKN * D * SI)	-0.00003	-0.00002	-0.00000
	(CKN * D * SI)	0.00112	0.00114	0.00115
	(CKN * D * !SI)	0.00219	0.00224	0.00229
	(CKN * D * !SI)	-0.00008	-0.00007	-0.00006
	(CKN * D * !SI)	0.00007	0.00008	0.00009
	(CKN * D * !SI)	0.00302	0.00306	0.00309
	(CKN * !D * SI)	0.00136	0.00141	0.00147
	(CKN * !D * SI)	0.00012	0.00012	0.00012
	(CKN * !D * SI)	-0.00013	-0.00012	-0.00011
	(CKN * !D * SI)	0.00306	0.00311	0.00316
	(CKN * !D * !SI)	-0.00010	-0.00008	-0.00004
	(CKN * !D * !SI)	0.00001	0.00002	0.00004
	(CKN * !D * !SI)	-0.00003	-0.00003	-0.00002
	(CKN * !D * !SI)	0.00116	0.00119	0.00122
	(!CKN * D * SI)	-0.00015	-0.00012	-0.00009
	(!CKN * D * SI)	0.00002	0.00002	0.00002
	(!CKN * D * SI)	-0.00003	-0.00002	-0.00001
	(!CKN * D * SI)	0.00112	0.00113	0.00116
	(!CKN * D * !SI)	0.00114	0.00120	0.00127
	(!CKN * D * !SI)	-0.00009	-0.00008	-0.00006
	(!CKN * D * !SI)	0.00006	0.00007	0.00007
	(!CKN * D * !SI)	0.00190	0.00196	0.00203
	(!CKN * !D * SI)	-0.00025	-0.00020	-0.00013
	(!CKN * !D * SI)	0.00012	0.00013	0.00013
	(!CKN * !D * SI)	-0.00013	-0.00012	-0.00011
	(!CKN * !D * SI)	0.00153	0.00158	0.00165
	(!CKN * !D * !SI)	-0.00010	-0.00008	-0.00003
	(!CKN * !D * !SI)	0.00001	0.00002	0.00002
	(!CKN * !D * !SI)	-0.00003	-0.00003	-0.00002
	(!CKN * !D * !SI)	0.00116	0.00118	0.00122

Passive power(pJ) for SE falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNQX3H7H	**(CKN * D * SI)**	0.00109	0.00111	0.00114
	(CKN * D * SI)	-0.00002	-0.00001	-0.00001
	(CKN * D * SI)	0.00002	0.00003	0.00005
	(CKN * D * SI)	-0.00018	-0.00015	-0.00013
	(CKN * D * !SI)	0.00312	0.00313	0.00316
	(CKN * D * !SI)	0.00006	0.00007	0.00008
	(CKN * D * !SI)	-0.00009	-0.00008	-0.00007
	(CKN * D * !SI)	0.00229	0.00230	0.00233
	(CKN * !D * SI)	0.00278	0.00283	0.00291
	(CKN * !D * SI)	-0.00012	-0.00012	-0.00012
	(CKN * !D * SI)	0.00011	0.00012	0.00013
	(CKN * !D * SI)	0.00107	0.00113	0.00121
	(CKN * !D * !SI)	0.00102	0.00104	0.00107
	(CKN * !D * !SI)	-0.00002	-0.00002	-0.00001
	(CKN * !D * !SI)	0.00002	0.00003	0.00003
	(CKN * !D * !SI)	-0.00025	-0.00022	-0.00017
	(!CKN * D * SI)	0.00109	0.00111	0.00114
	(!CKN * D * SI)	-0.00002	-0.00002	-0.00001
	(!CKN * D * SI)	0.00002	0.00003	0.00003
	(!CKN * D * SI)	-0.00018	-0.00015	-0.00012
	(!CKN * D * !SI)	0.00155	0.00156	0.00159
	(!CKN * D * !SI)	0.00006	0.00008	0.00009
	(!CKN * D * !SI)	-0.00007	-0.00007	-0.00006
	(!CKN * D * !SI)	0.00079	0.00081	0.00083
	(!CKN * !D * SI)	0.00171	0.00176	0.00183
	(!CKN * !D * SI)	-0.00013	-0.00012	-0.00012
	(!CKN * !D * SI)	0.00011	0.00012	0.00013
	(!CKN * !D * SI)	-0.00006	-0.00001	0.00006
	(!CKN * !D * !SI)	0.00102	0.00104	0.00107
	(!CKN * !D * !SI)	-0.00002	-0.00002	-0.00001
	(!CKN * !D * !SI)	0.00003	0.00003	0.00003
	(!CKN * !D * !SI)	-0.00025	-0.00023	-0.00020

Passive power(pJ) for SI rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNQX3H7H	**(CKN * D * SE)**	0.00156	0.00157	0.00159
	(CKN * D * SE)	0.00010	0.00011	0.00011
	(CKN * D * SE)	-0.00011	-0.00011	-0.00010
	(CKN * D * SE)	0.00247	0.00248	0.00250
	(CKN * D * !SE)	-0.00013	-0.00012	-0.00012
	(CKN * D * !SE)	-0.00002	-0.00002	-0.00002
	(CKN * D * !SE)	0.00001	0.00001	0.00001
	(CKN * D * !SE)	0.00022	0.00023	0.00023
	(CKN * !D * SE)	0.00156	0.00157	0.00159
	(CKN * !D * SE)	0.00009	0.00010	0.00011
	(CKN * !D * SE)	-0.00011	-0.00011	-0.00010
	(CKN * !D * SE)	0.00247	0.00248	0.00249
	(CKN * !D * !SE)	-0.00014	-0.00014	-0.00013
	(CKN * !D * !SE)	-0.00002	-0.00002	-0.00002
	(CKN * !D * !SE)	0.00001	0.00001	0.00001
	(CKN * !D * !SE)	0.00021	0.00021	0.00021
	(!CKN * D * SE)	-0.00003	-0.00002	-0.00001
	(!CKN * D * SE)	0.00011	0.00011	0.00012
	(!CKN * D * SE)	-0.00011	-0.00011	-0.00010
	(!CKN * D * SE)	0.00095	0.00095	0.00096
	(!CKN * D * !SE)	-0.00013	-0.00012	-0.00011
	(!CKN * D * !SE)	-0.00002	-0.00002	-0.00002
	(!CKN * D * !SE)	0.00001	0.00001	0.00001
	(!CKN * D * !SE)	0.00022	0.00022	0.00022
	(!CKN * !D * SE)	-0.00003	-0.00002	-0.00001
	(!CKN * !D * SE)	0.00011	0.00011	0.00012
	(!CKN * !D * SE)	-0.00011	-0.00011	-0.00010
	(!CKN * !D * SE)	0.00095	0.00096	0.00097
	(!CKN * !D * !SE)	-0.00014	-0.00014	-0.00013
	(!CKN * !D * !SE)	-0.00002	-0.00002	-0.00002
	(!CKN * !D * !SE)	0.00001	0.00001	0.00001
	(!CKN * !D * !SE)	0.00021	0.00021	0.00021

Passive power(pJ) for SI falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNQX3H7H	**(CKN * D * SE)**	0.00242	0.00245	0.00247
	(CKN * D * SE)	-0.00011	-0.00011	-0.00010
	(CKN * D * SE)	0.00010	0.00011	0.00011
	(CKN * D * SE)	0.00153	0.00155	0.00157
	(CKN * D * !SE)	0.00013	0.00013	0.00013
	(CKN * D * !SE)	0.00002	0.00002	0.00002
	(CKN * D * !SE)	-0.00001	-0.00001	-0.00001
	(CKN * D * !SE)	-0.00022	-0.00022	-0.00020
	(CKN * !D * SE)	0.00242	0.00245	0.00247
	(CKN * !D * SE)	-0.00011	-0.00010	-0.00009
	(CKN * !D * SE)	0.00010	0.00011	0.00011
	(CKN * !D * SE)	0.00153	0.00155	0.00157
	(CKN * !D * !SE)	0.00014	0.00014	0.00015
	(CKN * !D * !SE)	0.00002	0.00002	0.00002
	(CKN * !D * !SE)	-0.00001	-0.00001	-0.00001
	(CKN * !D * !SE)	-0.00021	-0.00020	-0.00019
	(!CKN * D * SE)	0.00139	0.00140	0.00142
	(!CKN * D * SE)	-0.00012	-0.00011	-0.00011
	(!CKN * D * SE)	0.00011	0.00011	0.00012
	(!CKN * D * SE)	0.00041	0.00043	0.00044
	(!CKN * D * !SE)	0.00013	0.00013	0.00013
	(!CKN * D * !SE)	0.00002	0.00002	0.00002
	(!CKN * D * !SE)	-0.00001	-0.00001	-0.00001
	(!CKN * D * !SE)	-0.00022	-0.00022	-0.00021
	(!CKN * !D * SE)	0.00139	0.00140	0.00143
	(!CKN * !D * SE)	-0.00012	-0.00011	-0.00011
	(!CKN * !D * SE)	0.00011	0.00011	0.00011
	(!CKN * !D * SE)	0.00041	0.00043	0.00044
	(!CKN * !D * !SE)	0.00014	0.00014	0.00015
	(!CKN * !D * !SE)	0.00002	0.00002	0.00002
	(!CKN * !D * !SE)	-0.00001	-0.00001	-0.00001
	(!CKN * !D * !SE)	-0.00021	-0.00020	-0.00019

SDFFNRX0P5H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Negative Edge Trigger Scan D Flip-Flop with Async Clear
Q =!RN ?0 : falling (CKN) ? (SE&S1! !SE&D) : pre_Q
QN = !Q

Truth Table

INPUT					OUTPUT	
CKN	D	RN	SE	SI	Q	QN
F	0	1	0	x	0	1
F	x	1	1	0	0	1
F	x	1	1	1	1	0
F	1	1	0	x	1	0
x	x	0	x	x	0	1
x	x	1	x	x	IQ	IQN

Footprint

Cell Name	Area
SDFFNRX0P5H7H	10.64000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)	
	CKN	D	RN	SE	SI	Q	QN
SDFFNRX0P5H7H	0.00102	0.00087	0.00105	0.00216	0.00095	0.04264	0.04306

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
SDFFNRX0P5H7H	0.00000	0.10534	0.11353

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFNRX0P5H7H	CKN->Q (FR)	(RN * SE)	0.27462	0.45198	0.89738
	CKN->Q (FR)	(RN * !SE)	0.27461	0.45196	0.89736

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFNRX0P5H7H	CKN->Q (FF)	(RN * SE)	0.18958	0.34425	0.72054
	CKN->Q (FF)	(RN * !SE)	0.18962	0.34430	0.72057
	RN->Q (FF)	(CKN * D * SE * SI)	0.13735	0.27896	0.61281
	RN->Q (FF)	(CKN * D * SE * !SI)	0.13588	0.27712	0.61016
	RN->Q (FF)	(CKN * D * !SE * SI)	0.13736	0.27896	0.61272
	RN->Q (FF)	(CKN * D * !SE * !SI)	0.13736	0.27896	0.61272
	RN->Q (FF)	(CKN * !D * SE * SI)	0.13735	0.27896	0.61281
	RN->Q (FF)	(CKN * !D * SE * !SI)	0.13588	0.27712	0.61016
	RN->Q (FF)	(CKN * !D * !SE * SI)	0.13587	0.27712	0.61016
	RN->Q (FF)	(CKN * !D * !SE * !SI)	0.13587	0.27712	0.61016
	RN->Q (FF)	(!CKN * D * SE * SI)	0.14874	0.29068	0.62398
	RN->Q (FF)	(!CKN * D * SE * !SI)	0.14874	0.29068	0.62398
	RN->Q (FF)	(!CKN * D * !SE * SI)	0.14874	0.29067	0.62398
	RN->Q (FF)	(!CKN * D * !SE * !SI)	0.14874	0.29067	0.62398
	RN->Q (FF)	(!CKN * !D * SE * SI)	0.14874	0.29068	0.62398
	RN->Q (FF)	(!CKN * !D * SE * !SI)	0.14874	0.29068	0.62398
	RN->Q (FF)	(!CKN * !D * !SE * SI)	0.14874	0.29068	0.62398
	RN->Q (FF)	(!CKN * !D * !SE * !SI)	0.14874	0.29068	0.62398

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFNRX0P5H7H	CKN->QN (FR)	(RN * SE)	0.13800	0.33196	0.79505
	CKN->QN (FR)	(RN * !SE)	0.13803	0.33205	0.79588
	RN->QN (FR)	(CKN * D * SE * SI)	0.09201	0.26482	0.68006
	RN->QN (FR)	(CKN * D * SE * !SI)	0.09094	0.26314	0.67793
	RN->QN (FR)	(CKN * D * !SE * SI)	0.09201	0.26483	0.68027
	RN->QN (FR)	(CKN * D * !SE * !SI)	0.09201	0.26482	0.68027
	RN->QN (FR)	(CKN * !D * SE * SI)	0.09201	0.26482	0.68026
	RN->QN (FR)	(CKN * !D * SE * !SI)	0.09094	0.26314	0.67795
	RN->QN (FR)	(CKN * !D * !SE * SI)	0.09094	0.26314	0.67792
	RN->QN (FR)	(CKN * !D * !SE * !SI)	0.09094	0.26314	0.67792
	RN->QN (FR)	(!CKN * D * SE * SI)	0.09822	0.27783	0.69693
	RN->QN (FR)	(!CKN * D * SE * !SI)	0.09822	0.27784	0.69725
	RN->QN (FR)	(!CKN * D * !SE * SI)	0.09822	0.27783	0.69687
	RN->QN (FR)	(!CKN * D * !SE * !SI)	0.09822	0.27783	0.69687
	RN->QN (FR)	(!CKN * !D * SE * SI)	0.09822	0.27783	0.69677
	RN->QN (FR)	(!CKN * !D * SE * !SI)	0.09822	0.27783	0.69686
	RN->QN (FR)	(!CKN * !D * !SE * SI)	0.09822	0.27783	0.69698
	RN->QN (FR)	(!CKN * !D * !SE * !SI)	0.09822	0.27783	0.69676

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFNRX0P5H7H	CKN->QN (FF)	(RN * SE)	0.21397	0.40022	0.79841
	CKN->QN (FF)	(RN * !SE)	0.21393	0.40020	0.79842

Constraint Information

Min Pulse Width (ns) for CKN:

Cell Name	High	Low
SDFFNRX0P5H7H	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNRX0P5H7H	**hold**	**CKN (F)**	-0.15851	0.00870	0.19816
	setup	**CKN (F)**	-0.12962	0.08088	0.30174

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNRX0P5H7H	**hold**	**CKN (F)**	-0.28988	-0.11948	-0.00188
	setup	**CKN (F)**	0.05510	0.18964	0.39983

Constraints(ns) for RN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNRX0P5H7H	**recovery**	**CKN (F)**	-0.21349	-0.00586	0.16231
	removal	**CKN (F)**	0.01122	0.13346	0.31970

Min Pulse Width (ns) for RN:

Cell Name	High	Low
SDFFNRX0P5H7H	-	0.9851

Constraints(ns) for SE rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNRX0P5H7H	hold	CKN (F)	-0.10745	0.02322	0.20394
	setup	CKN (F)	0.08388	0.19660	0.32783

Constraints(ns) for SE falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNRX0P5H7H	hold	CKN (F)	-0.17647	-0.01067	0.17697
	setup	CKN (F)	0.04040	0.16808	0.36684

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNRX0P5H7H	hold	CKN (F)	-0.17164	0.00039	0.19030
	setup	CKN (F)	-0.11883	0.09465	0.32028

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNRX0P5H7H	hold	CKN (F)	-0.30372	-0.13076	-0.01526
	setup	CKN (F)	0.07165	0.20534	0.41573

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFNRX0P5H7H	CKN	(RN * SE)	0.00285	0.00290	0.00296
	CKN	(RN * SE)	-0.00002	-0.00001	-0.00000
	CKN	(RN * SE)	0.00001	0.00003	0.00003
	CKN	(RN * SE)	0.00245	0.00251	0.00257
	CKN	(RN * !SE)	0.00285	0.00290	0.00296
	CKN	(RN * !SE)	-0.00001	-0.00001	-0.00001
	CKN	(RN * !SE)	0.00001	0.00003	0.00003
	CKN	(RN * !SE)	0.00247	0.00251	0.00257

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

SDFFNRX0P5H7H	**CKN**	**(RN * SE)**	0.00253	0.00260	0.00267
	CKN	**(RN * SE)**	0.00000	0.00001	0.00002
	CKN	**(RN * SE)**	-0.00003	-0.00003	-0.00001
	CKN	**(RN * SE)**	0.00222	0.00229	0.00235
	CKN	**(RN * !SE)**	0.00253	0.00260	0.00267
	CKN	**(RN * !SE)**	0.00001	0.00001	0.00001
	CKN	**(RN * !SE)**	-0.00003	-0.00003	-0.00001
	CKN	**(RN * !SE)**	0.00222	0.00229	0.00235
	RN	**(CKN * D * SE * SI)**	0.00199	0.00203	0.00207
	RN	**(CKN * D * SE * SI)**	0.00002	0.00003	0.00004
	RN	**(CKN * D * SE * SI)**	-0.00005	-0.00004	-0.00002
	RN	**(CKN * D * SE * SI)**	0.00168	0.00172	0.00175
	RN	**(CKN * D * SE * !SI)**	0.00198	0.00202	0.00207
	RN	**(CKN * D * SE * !SI)**	0.00000	0.00002	0.00004
	RN	**(CKN * D * SE * !SI)**	-0.00005	-0.00004	-0.00002
	RN	**(CKN * D * SE * !SI)**	0.00165	0.00170	0.00174
	RN	**(CKN * D * !SE * SI)**	0.00199	0.00203	0.00207
	RN	**(CKN * D * !SE * SI)**	0.00001	0.00003	0.00004
	RN	**(CKN * D * !SE * SI)**	-0.00005	-0.00004	-0.00002
	RN	**(CKN * D * !SE * SI)**	0.00168	0.00172	0.00175
	RN	**(CKN * D * !SE * !SI)**	0.00199	0.00203	0.00207
	RN	**(CKN * D * !SE * !SI)**	0.00001	0.00003	0.00004
	RN	**(CKN * D * !SE * !SI)**	-0.00005	-0.00004	-0.00004
	RN	**(CKN * D * !SE * !SI)**	0.00168	0.00172	0.00175
	RN	**(CKN * !D * SE * SI)**	0.00199	0.00203	0.00207
	RN	**(CKN * !D * SE * SI)**	0.00002	0.00003	0.00004
	RN	**(CKN * !D * SE * SI)**	-0.00005	-0.00004	-0.00002
	RN	**(CKN * !D * SE * SI)**	0.00168	0.00172	0.00175
	RN	**(CKN * !D * SE * !SI)**	0.00198	0.00202	0.00207
	RN	**(CKN * !D * SE * !SI)**	0.00000	0.00002	0.00004
	RN	**(CKN * !D * SE * !SI)**	-0.00005	-0.00004	-0.00002
	RN	**(CKN * !D * SE * !SI)**	0.00165	0.00170	0.00174
	RN	**(CKN * !D * !SE * SI)**	0.00198	0.00203	0.00206
	RN	**(CKN * !D * !SE * SI)**	0.00000	0.00002	0.00004
	RN	**(CKN * !D * !SE * SI)**	-0.00005	-0.00004	-0.00003
	RN	**(CKN * !D * !SE * SI)**	0.00165	0.00170	0.00174
	RN	**(CKN * !D * !SE * !SI)**	0.00198	0.00202	0.00206
	RN	**(CKN * !D * !SE * !SI)**	0.00000	0.00002	0.00004
	RN	**(CKN * !D * !SE * !SI)**	-0.00005	-0.00004	-0.00003
	RN	**(CKN * !D * !SE * !SI)**	0.00165	0.00170	0.00174
	RN	**(!CKN * D * SE * SI)**	0.00273	0.00278	0.00282
	RN	**(!CKN * D * SE * SI)**	-0.00000	-0.00000	-0.00000
	RN	**(!CKN * D * SE * SI)**	-0.00000	-0.00000	-0.00000
	RN	**(!CKN * D * SE * SI)**	0.00236	0.00241	0.00245
	RN	**(!CKN * D * SE * !SI)**	0.00270	0.00275	0.00279
	RN	**(!CKN * D * SE * !SI)**	-0.00000	-0.00000	-0.00000
	RN	**(!CKN * D * SE * !SI)**	-0.00000	-0.00000	-0.00000
	RN	**(!CKN * D * SE * !SI)**	0.00232	0.00237	0.00241
	RN	**(!CKN * D * !SE * SI)**	0.00273	0.00278	0.00282
	RN	**(!CKN * D * !SE * SI)**	-0.00000	-0.00000	-0.00000
	RN	**(!CKN * D * !SE * SI)**	-0.00001	-0.00000	0.00000
	RN	**(!CKN * D * !SE * SI)**	0.00236	0.00241	0.00245
	RN	**(!CKN * D * !SE * !SI)**	0.00273	0.00278	0.00282
	RN	**(!CKN * D * !SE * !SI)**	-0.00000	-0.00000	-0.00000
	RN	**(!CKN * D * !SE * !SI)**	-0.00001	-0.00000	0.00000
	RN	**(!CKN * D * !SE * !SI)**	0.00236	0.00241	0.00245
	RN	**(!CKN * !D * SE * SI)**	0.00273	0.00278	0.00282
	RN	**(!CKN * !D * SE * SI)**	-0.00000	-0.00000	-0.00000
	RN	**(!CKN * !D * SE * SI)**	-0.00000	-0.00000	-0.00000
	RN	**(!CKN * !D * SE * SI)**	0.00236	0.00241	0.00245
	RN	**(!CKN * !D * SE * !SI)**	0.00270	0.00275	0.00279
	RN	**(!CKN * !D * SE * !SI)**	-0.00000	-0.00000	-0.00000
	RN	**(!CKN * !D * SE * !SI)**	-0.00000	-0.00000	-0.00000
	RN	**(!CKN * !D * SE * !SI)**	0.00232	0.00237	0.00241
	RN	**(!CKN * !D * !SE * SI)**	0.00270	0.00275	0.00279
	RN	**(!CKN * !D * !SE * SI)**	-0.00000	-0.00000	0.00000
	RN	**(!CKN * !D * !SE * SI)**	-0.00000	-0.00000	-0.00000
	RN	**(!CKN * !D * !SE * SI)**	0.00232	0.00237	0.00241
	RN	**(!CKN * !D * !SE * !SI)**	0.00270	0.00275	0.00279
	RN	**(!CKN * !D * !SE * !SI)**	-0.00000	-0.00000	0.00000
	RN	**(!CKN * !D * !SE * !SI)**	-0.00000	-0.00000	-0.00000
	RN	**(!CKN * !D * !SE * !SI)**	0.00232	0.00237	0.00241

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

SDFFNRX0P5H7H	**CKN**	**(RN * SE)**	0.00253	0.00260	0.00267
	CKN	**(RN * SE)**	0.00001	0.00001	0.00002
	CKN	**(RN * SE)**	-0.00003	-0.00003	-0.00002
	CKN	**(RN * SE)**	0.00222	0.00229	0.00236
	CKN	**(RN * !SE)**	0.00253	0.00261	0.00267
	CKN	**(RN * !SE)**	0.00000	0.00001	0.00002
	CKN	**(RN * !SE)**	-0.00004	-0.00003	-0.00002
	CKN	**(RN * !SE)**	0.00222	0.00229	0.00236
	RN	**(CKN * D * SE * SI)**	0.00199	0.00203	0.00207
	RN	**(CKN * D * SE * SI)**	0.00002	0.00003	0.00004
	RN	**(CKN * D * SE * SI)**	-0.00006	-0.00004	-0.00003
	RN	**(CKN * D * SE * SI)**	0.00168	0.00172	0.00175
	RN	**(CKN * D * SE * !SI)**	0.00197	0.00203	0.00206
	RN	**(CKN * D * SE * !SI)**	0.00002	0.00002	0.00004
	RN	**(CKN * D * SE * !SI)**	-0.00004	-0.00003	-0.00002
	RN	**(CKN * D * SE * !SI)**	0.00165	0.00170	0.00174
	RN	**(CKN * D * !SE * SI)**	0.00199	0.00203	0.00207
	RN	**(CKN * D * !SE * SI)**	0.00001	0.00003	0.00005
	RN	**(CKN * D * !SE * SI)**	-0.00004	-0.00004	-0.00002
	RN	**(CKN * D * !SE * SI)**	0.00167	0.00172	0.00175
	RN	**(CKN * D * !SE * !SI)**	0.00199	0.00203	0.00207
	RN	**(CKN * D * !SE * !SI)**	0.00001	0.00003	0.00005
	RN	**(CKN * D * !SE * !SI)**	-0.00005	-0.00004	-0.00002
	RN	**(CKN * D * !SE * !SI)**	0.00167	0.00172	0.00175
	RN	**(CKN * !D * SE * SI)**	0.00199	0.00203	0.00207
	RN	**(CKN * !D * SE * SI)**	0.00002	0.00003	0.00003
	RN	**(CKN * !D * SE * SI)**	-0.00006	-0.00004	-0.00002
	RN	**(CKN * !D * SE * SI)**	0.00168	0.00172	0.00175
	RN	**(CKN * !D * SE * !SI)**	0.00197	0.00203	0.00206
	RN	**(CKN * !D * SE * !SI)**	0.00002	0.00002	0.00004
	RN	**(CKN * !D * SE * !SI)**	-0.00004	-0.00003	-0.00002
	RN	**(CKN * !D * SE * !SI)**	0.00165	0.00170	0.00174
	RN	**(CKN * !D * !SE * SI)**	0.00198	0.00202	0.00206
	RN	**(CKN * !D * !SE * SI)**	-0.00000	0.00002	0.00004
	RN	**(CKN * !D * !SE * SI)**	-0.00004	-0.00003	-0.00002
	RN	**(CKN * !D * !SE * SI)**	0.00165	0.00170	0.00174
	RN	**(CKN * !D * !SE * !SI)**	0.00198	0.00203	0.00206
	RN	**(CKN * !D * !SE * !SI)**	-0.00000	0.00002	0.00004
	RN	**(CKN * !D * !SE * !SI)**	-0.00004	-0.00003	-0.00002
	RN	**(CKN * !D * !SE * !SI)**	0.00165	0.00170	0.00174
	RN	**(!CKN * D * SE * SI)**	0.00273	0.00278	0.00282
	RN	**(!CKN * D * SE * SI)**	-0.00002	0.00000	0.00002
	RN	**(!CKN * D * SE * SI)**	-0.00002	-0.00000	0.00001
	RN	**(!CKN * D * SE * SI)**	0.00236	0.00241	0.00245
	RN	**(!CKN * D * SE * !SI)**	0.00270	0.00275	0.00279
	RN	**(!CKN * D * SE * !SI)**	-0.00002	-0.00000	0.00003
	RN	**(!CKN * D * SE * !SI)**	-0.00001	-0.00000	0.00002
	RN	**(!CKN * D * SE * !SI)**	0.00232	0.00238	0.00241
	RN	**(!CKN * D * !SE * SI)**	0.00273	0.00278	0.00282
	RN	**(!CKN * D * !SE * SI)**	-0.00001	0.00000	0.00002
	RN	**(!CKN * D * !SE * SI)**	-0.00002	-0.00000	0.00002
	RN	**(!CKN * D * !SE * SI)**	0.00236	0.00241	0.00245
	RN	**(!CKN * D * !SE * !SI)**	0.00273	0.00278	0.00282
	RN	**(!CKN * D * !SE * !SI)**	-0.00001	0.00000	0.00001
	RN	**(!CKN * D * !SE * !SI)**	-0.00002	-0.00000	0.00002
	RN	**(!CKN * D * !SE * !SI)**	0.00236	0.00241	0.00245
	RN	**(!CKN * !D * SE * SI)**	0.00273	0.00278	0.00282
	RN	**(!CKN * !D * SE * SI)**	-0.00002	0.00000	0.00002
	RN	**(!CKN * !D * SE * SI)**	-0.00002	-0.00000	0.00001
	RN	**(!CKN * !D * SE * SI)**	0.00236	0.00241	0.00245
	RN	**(!CKN * !D * SE * !SI)**	0.00270	0.00275	0.00279
	RN	**(!CKN * !D * SE * !SI)**	-0.00002	-0.00000	0.00003
	RN	**(!CKN * !D * SE * !SI)**	-0.00001	-0.00000	0.00002
	RN	**(!CKN * !D * SE * !SI)**	0.00232	0.00237	0.00241
	RN	**(!CKN * !D * !SE * SI)**	0.00270	0.00275	0.00279
	RN	**(!CKN * !D * !SE * SI)**	-0.00002	-0.00000	0.00002
	RN	**(!CKN * !D * !SE * SI)**	-0.00001	-0.00000	0.00002
	RN	**(!CKN * !D * !SE * SI)**	0.00232	0.00238	0.00241
	RN	**(!CKN * !D * !SE * !SI)**	0.00270	0.00275	0.00279
	RN	**(!CKN * !D * !SE * !SI)**	-0.00002	-0.00000	0.00002
	RN	**(!CKN * !D * !SE * !SI)**	-0.00001	-0.00000	0.00002
	RN	**(!CKN * !D * !SE * !SI)**	0.00232	0.00237	0.00241

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFNRX0P5H7H	CKN	(RN * SE)	0.00285	0.00290	0.00295
	CKN	(RN * SE)	-0.00002	-0.00001	-0.00001
	CKN	(RN * SE)	0.00002	0.00003	0.00003
	CKN	(RN * SE)	0.00246	0.00251	0.00257
	CKN	(RN * !SE)	0.00285	0.00290	0.00296
	CKN	(RN * !SE)	-0.00002	-0.00001	0.00000
	CKN	(RN * !SE)	0.00002	0.00003	0.00004
	CKN	(RN * !SE)	0.00246	0.00251	0.00257

Passive power(pJ) for CKN rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNRX0P5H7H	0.00328	0.00331	0.00334
	-0.00000	-0.00000	0.00000
	-0.00004	-0.00003	-0.00003
	0.00400	0.00404	0.00407

Passive power(pJ) for CKN falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNRX0P5H7H	0.00424	0.00433	0.00441
	0.00000	0.00000	0.00000
	0.00003	0.00003	0.00004
	0.00349	0.00359	0.00368

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNRX0P5H7H	0.00162	0.00163	0.00164
	0.00015	0.00015	0.00016
	-0.00015	-0.00014	-0.00013
	0.00280	0.00282	0.00284

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNRX0P5H7H	0.00280	0.00281	0.00282
	-0.00016	-0.00015	-0.00015
	0.00013	0.00014	0.00015
	0.00158	0.00159	0.00160

Passive power(pJ) for RN rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNRX0P5H7H	0.00110	0.00112	0.00116
	0.00000	0.00000	0.00000
	-0.00001	-0.00001	-0.00000
	0.00172	0.00174	0.00178

Passive power(pJ) for RN falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNRX0P5H7H	0.00096	0.00099	0.00103
	0.00000	0.00000	0.00000
	0.00003	0.00003	0.00004
	0.00014	0.00016	0.00020

Passive power(pJ) for SE rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNRX0P5H7H	0.00259	0.00264	0.00271
	-0.00012	-0.00010	-0.00009
	0.00010	0.00012	0.00013
	0.00323	0.00329	0.00337

Passive power(pJ) for SE falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNRX0P5H7H	0.00301	0.00303	0.00306
	0.00009	0.00010	0.00012
	-0.00010	-0.00009	-0.00008
	0.00224	0.00226	0.00230

Passive power(pJ) for SI rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNRX0P5H7H	0.00138	0.00140	0.00141
	0.00014	0.00015	0.00017
	-0.00014	-0.00013	-0.00012
	0.00259	0.00261	0.00264

Passive power(pJ) for SI falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNRX0P5H7H	0.00300	0.00303	0.00306
	-0.00017	-0.00015	-0.00014
	0.00012	0.00013	0.00014
	0.00176	0.00179	0.00182

SDFFNRX1H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Negative Edge Trigger Scan D Flip-Flop with Async Clear
Q =!RN ? 0 : falling (CKN) ? (SE&SI | !SE&D) : pre_Q
QN = !Q

Truth Table

INPUT					OUTPUT	
CKN	D	RN	SE	SI	Q	QN
F	0	1	0	x	0	1
F	x	1	1	0	0	1
F	x	1	1	1	1	0
F	1	1	0	x	1	0
x	x	0	x	x	0	1
x	x	1	x	x	IQ	IQN

Footprint

Cell Name	Area
SDFFNRX1H7H	10.64000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)	
	CKN	D	RN	SE	SI	Q	QN
SDFFNRX1H7H	0.00101	0.00088	0.00106	0.00212	0.00095	0.04993	0.05052

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
SDFFNRX1H7H	0.00000	0.11343	0.12249

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFNRX1H7H	CKN->Q (FR)	(RN * SE)	0.27659	0.45378	0.89919
	CKN->Q (FR)	(RN * !SE)	0.27656	0.45375	0.89918

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFNRX1H7H	CKN->Q (FF)	(RN * SE)	0.18652	0.34318	0.72417
	CKN->Q (FF)	(RN * !SE)	0.18652	0.34323	0.72421
	RN->Q (FF)	(CKN * D * SE * SI)	0.13881	0.28218	0.61973
	RN->Q (FF)	(CKN * D * SE * !SI)	0.13725	0.28027	0.61708
	RN->Q (FF)	(CKN * D * !SE * SI)	0.13881	0.28218	0.61971
	RN->Q (FF)	(CKN * D * !SE * !SI)	0.13881	0.28218	0.61971
	RN->Q (FF)	(CKN * !D * SE * SI)	0.13881	0.28219	0.62025
	RN->Q (FF)	(CKN * !D * SE * !SI)	0.13725	0.28027	0.61708
	RN->Q (FF)	(CKN * !D * !SE * SI)	0.13725	0.28027	0.61708
	RN->Q (FF)	(CKN * !D * !SE * !SI)	0.13725	0.28027	0.61708
	RN->Q (FF)	(!CKN * D * SE * SI)	0.15116	0.29490	0.63197
	RN->Q (FF)	(!CKN * D * SE * !SI)	0.15116	0.29491	0.63197
	RN->Q (FF)	(!CKN * D * !SE * SI)	0.15116	0.29491	0.63197
	RN->Q (FF)	(!CKN * D * !SE * !SI)	0.15116	0.29490	0.63185
	RN->Q (FF)	(!CKN * !D * SE * SI)	0.15116	0.29492	0.63197
	RN->Q (FF)	(!CKN * !D * SE * !SI)	0.15116	0.29492	0.63197
	RN->Q (FF)	(!CKN * !D * !SE * SI)	0.15116	0.29491	0.63186
	RN->Q (FF)	(!CKN * !D * !SE * !SI)	0.15116	0.29492	0.63197

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFNRX1H7H	CKN->QN (FR)	(RN * SE)	0.13258	0.32677	0.79137
	CKN->QN (FR)	(RN * !SE)	0.13257	0.32682	0.79144
	RN->QN (FR)	(CKN * D * SE * SI)	0.09071	0.26425	0.67993
	RN->QN (FR)	(CKN * D * SE * !SI)	0.08965	0.26251	0.67760
	RN->QN (FR)	(CKN * D * !SE * SI)	0.09071	0.26425	0.67987
	RN->QN (FR)	(CKN * D * !SE * !SI)	0.09071	0.26425	0.67993
	RN->QN (FR)	(CKN * !D * SE * SI)	0.09071	0.26425	0.67993
	RN->QN (FR)	(CKN * !D * SE * !SI)	0.08965	0.26250	0.67760
	RN->QN (FR)	(CKN * !D * !SE * SI)	0.08965	0.26251	0.67759
	RN->QN (FR)	(CKN * !D * !SE * !SI)	0.08965	0.26250	0.67759
	RN->QN (FR)	(!CKN * D * SE * SI)	0.09735	0.27804	0.69761
	RN->QN (FR)	(!CKN * D * SE * !SI)	0.09735	0.27805	0.69771
	RN->QN (FR)	(!CKN * D * !SE * SI)	0.09735	0.27804	0.69760
	RN->QN (FR)	(!CKN * D * !SE * !SI)	0.09735	0.27804	0.69752
	RN->QN (FR)	(!CKN * !D * SE * SI)	0.09735	0.27805	0.69767
	RN->QN (FR)	(!CKN * !D * SE * !SI)	0.09735	0.27804	0.69761
	RN->QN (FR)	(!CKN * !D * !SE * SI)	0.09735	0.27805	0.69761
	RN->QN (FR)	(!CKN * !D * !SE * !SI)	0.09735	0.27805	0.69761

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFNRX1H7H	CKN->QN (FF)	(RN * SE)	0.21312	0.40258	0.80642
	CKN->QN (FF)	(RN * !SE)	0.21308	0.40253	0.80621

Constraint Information

Min Pulse Width (ns) for CKN:

Cell Name	High	Low
SDFFNRX1H7H	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNRX1H7H	**hold**	**CKN (F)**	-0.16300	0.00938	0.20257
	setup	**CKN (F)**	-0.13200	0.08351	0.30631

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNRX1H7H	**hold**	**CKN (F)**	-0.27931	-0.11611	-0.00262
	setup	**CKN (F)**	0.05627	0.18946	0.39897

Constraints(ns) for RN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNRX1H7H	**recovery**	**CKN (F)**	-0.21481	-0.00360	0.16284
	removal	**CKN (F)**	0.00730	0.13179	0.31756

Min Pulse Width (ns) for RN:

Cell Name	High	Low
SDFFNRX1H7H	-	0.9851

Constraints(ns) for SE rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNRX1H7H	hold	CKN (F)	-0.10828	0.02439	0.20657
	setup	CKN (F)	0.08536	0.19684	0.32865

Constraints(ns) for SE falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNRX1H7H	hold	CKN (F)	-0.17761	-0.01075	0.17650
	setup	CKN (F)	0.04172	0.16669	0.36837

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNRX1H7H	hold	CKN (F)	-0.17424	0.00078	0.19309
	setup	CKN (F)	-0.11921	0.09645	0.32236

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNRX1H7H	hold	CKN (F)	-0.29106	-0.12696	-0.01377
	setup	CKN (F)	0.07292	0.20485	0.41519

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFNRX1H7H	CKN	(RN * SE)	0.00295	0.00301	0.00306
	CKN	(RN * SE)	-0.00001	-0.00001	-0.00001
	CKN	(RN * SE)	0.00002	0.00003	0.00004
	CKN	(RN * SE)	0.00255	0.00262	0.00268
	CKN	(RN * !SE)	0.00294	0.00301	0.00307
	CKN	(RN * !SE)	-0.00001	-0.00001	-0.00001
	CKN	(RN * !SE)	0.00002	0.00003	0.00003
	CKN	(RN * !SE)	0.00255	0.00262	0.00268

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

	CKN	**(RN * SE)**	0.00259	0.00267	0.00273
	CKN	**(RN * SE)**	0.00001	0.00001	0.00001
	CKN	**(RN * SE)**	-0.00004	-0.00003	-0.00002
	CKN	**(RN * SE)**	0.00228	0.00236	0.00243
	CKN	**(RN * !SE)**	0.00259	0.00267	0.00273
	CKN	**(RN * !SE)**	0.00001	0.00001	0.00001
	CKN	**(RN * !SE)**	-0.00003	-0.00003	-0.00002
	CKN	**(RN * !SE)**	0.00228	0.00236	0.00243
	RN	**(CKN * D * SE * SI)**	0.00205	0.00210	0.00214
	RN	**(CKN * D * SE * SI)**	0.00002	0.00003	0.00004
	RN	**(CKN * D * SE * SI)**	-0.00006	-0.00004	-0.00003
	RN	**(CKN * D * SE * SI)**	0.00174	0.00179	0.00183
	RN	**(CKN * D * SE * !SI)**	0.00204	0.00209	0.00213
	RN	**(CKN * D * SE * !SI)**	0.00001	0.00002	0.00002
	RN	**(CKN * D * SE * !SI)**	-0.00004	-0.00004	-0.00004
	RN	**(CKN * D * SE * !SI)**	0.00172	0.00177	0.00181
	RN	**(CKN * D * !SE * SI)**	0.00205	0.00210	0.00214
	RN	**(CKN * D * !SE * SI)**	0.00003	0.00003	0.00004
	RN	**(CKN * D * !SE * SI)**	-0.00005	-0.00004	-0.00004
	RN	**(CKN * D * !SE * SI)**	0.00174	0.00179	0.00183
	RN	**(CKN * D * !SE * !SI)**	0.00205	0.00210	0.00214
	RN	**(CKN * D * !SE * !SI)**	0.00003	0.00003	0.00004
	RN	**(CKN * D * !SE * !SI)**	-0.00005	-0.00004	-0.00004
	RN	**(CKN * D * !SE * !SI)**	0.00174	0.00179	0.00183
	RN	**(CKN * !D * SE * SI)**	0.00205	0.00210	0.00214
	RN	**(CKN * !D * SE * SI)**	0.00002	0.00003	0.00004
	RN	**(CKN * !D * SE * SI)**	-0.00006	-0.00004	-0.00003
	RN	**(CKN * !D * SE * SI)**	0.00174	0.00179	0.00183
	RN	**(CKN * !D * SE * !SI)**	0.00204	0.00209	0.00213
	RN	**(CKN * !D * SE * !SI)**	0.00001	0.00002	0.00002
	RN	**(CKN * !D * SE * !SI)**	-0.00004	-0.00004	-0.00004
	RN	**(CKN * !D * SE * !SI)**	0.00172	0.00177	0.00181
	RN	**(CKN * !D * !SE * SI)**	0.00204	0.00209	0.00213
	RN	**(CKN * !D * !SE * SI)**	0.00000	0.00002	0.00004
	RN	**(CKN * !D * !SE * SI)**	-0.00004	-0.00004	-0.00003
SDFFNRX1H7H	**RN**	**(CKN * !D * !SE * SI)**	0.00172	0.00177	0.00181
	RN	**(CKN * !D * !SE * !SI)**	0.00204	0.00209	0.00213
	RN	**(CKN * !D * !SE * !SI)**	0.00000	0.00002	0.00004
	RN	**(CKN * !D * !SE * !SI)**	-0.00004	-0.00004	-0.00003
	RN	**(CKN * !D * !SE * !SI)**	0.00172	0.00177	0.00181
	RN	**(!CKN * D * SE * SI)**	0.00279	0.00284	0.00288
	RN	**(!CKN * D * SE * SI)**	-0.00001	0.00001	0.00002
	RN	**(!CKN * D * SE * SI)**	-0.00002	-0.00001	0.00001
	RN	**(!CKN * D * SE * SI)**	0.00241	0.00247	0.00252
	RN	**(!CKN * D * SE * !SI)**	0.00275	0.00281	0.00285
	RN	**(!CKN * D * SE * !SI)**	-0.00000	0.00001	0.00002
	RN	**(!CKN * D * SE * !SI)**	-0.00001	-0.00001	0.00001
	RN	**(!CKN * D * SE * !SI)**	0.00238	0.00244	0.00248
	RN	**(!CKN * D * !SE * SI)**	0.00279	0.00284	0.00288
	RN	**(!CKN * D * !SE * SI)**	-0.00001	0.00000	0.00001
	RN	**(!CKN * D * !SE * SI)**	-0.00002	-0.00001	0.00001
	RN	**(!CKN * D * !SE * SI)**	0.00241	0.00247	0.00251
	RN	**(!CKN * D * !SE * !SI)**	0.00279	0.00284	0.00288
	RN	**(!CKN * D * !SE * !SI)**	-0.00001	0.00000	0.00001
	RN	**(!CKN * D * !SE * !SI)**	-0.00002	-0.00001	0.00001
	RN	**(!CKN * D * !SE * !SI)**	0.00241	0.00247	0.00251
	RN	**(!CKN * !D * SE * SI)**	0.00279	0.00284	0.00288
	RN	**(!CKN * !D * SE * SI)**	-0.00001	0.00001	0.00002
	RN	**(!CKN * !D * SE * SI)**	-0.00002	-0.00001	0.00001
	RN	**(!CKN * !D * SE * SI)**	0.00241	0.00247	0.00252
	RN	**(!CKN * !D * SE * !SI)**	0.00275	0.00281	0.00285
	RN	**(!CKN * !D * SE * !SI)**	-0.00000	0.00001	0.00002
	RN	**(!CKN * !D * SE * !SI)**	-0.00001	-0.00000	0.00001
	RN	**(!CKN * !D * SE * !SI)**	0.00238	0.00244	0.00248
	RN	**(!CKN * !D * !SE * SI)**	0.00275	0.00281	0.00285
	RN	**(!CKN * !D * !SE * SI)**	-0.00001	0.00000	0.00001
	RN	**(!CKN * !D * !SE * SI)**	-0.00001	-0.00001	0.00001
	RN	**(!CKN * !D * !SE * SI)**	0.00238	0.00244	0.00248
	RN	**(!CKN * !D * !SE * !SI)**	0.00275	0.00281	0.00285
	RN	**(!CKN * !D * !SE * !SI)**	-0.00001	0.00000	0.00001
	RN	**(!CKN * !D * !SE * !SI)**	-0.00001	-0.00001	0.00001
	RN	**(!CKN * !D * !SE * !SI)**	0.00238	0.00244	0.00248

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

	CKN	**(RN * SE)**	0.00259	0.00267	0.00273
	CKN	**(RN * SE)**	0.00001	0.00002	0.00003
	CKN	**(RN * SE)**	-0.00004	-0.00003	-0.00002
	CKN	**(RN * SE)**	0.00228	0.00236	0.00243
	CKN	**(RN * !SE)**	0.00259	0.00267	0.00273
	CKN	**(RN * !SE)**	0.00001	0.00002	0.00003
	CKN	**(RN * !SE)**	-0.00004	-0.00003	-0.00002
	CKN	**(RN * !SE)**	0.00228	0.00236	0.00243
	RN	**(CKN * D * SE * SI)**	0.00205	0.00210	0.00214
	RN	**(CKN * D * SE * SI)**	0.00000	0.00003	0.00004
	RN	**(CKN * D * SE * SI)**	-0.00006	-0.00004	-0.00002
	RN	**(CKN * D * SE * SI)**	0.00174	0.00179	0.00183
	RN	**(CKN * D * SE * !SI)**	0.00204	0.00209	0.00213
	RN	**(CKN * D * SE * !SI)**	0.00001	0.00002	0.00004
	RN	**(CKN * D * SE * !SI)**	-0.00005	-0.00004	-0.00002
	RN	**(CKN * D * SE * !SI)**	0.00172	0.00177	0.00181
	RN	**(CKN * D * !SE * SI)**	0.00205	0.00210	0.00214
	RN	**(CKN * D * !SE * SI)**	0.00000	0.00003	0.00004
	RN	**(CKN * D * !SE * SI)**	-0.00006	-0.00004	-0.00002
	RN	**(CKN * D * !SE * SI)**	0.00173	0.00179	0.00183
	RN	**(CKN * D * !SE * !SI)**	0.00205	0.00210	0.00214
	RN	**(CKN * D * !SE * !SI)**	0.00000	0.00003	0.00003
	RN	**(CKN * D * !SE * !SI)**	-0.00006	-0.00004	-0.00002
	RN	**(CKN * D * !SE * !SI)**	0.00173	0.00179	0.00183
	RN	**(CKN * !D * SE * SI)**	0.00205	0.00210	0.00214
	RN	**(CKN * !D * SE * SI)**	0.00000	0.00003	0.00005
	RN	**(CKN * !D * SE * SI)**	-0.00006	-0.00004	-0.00002
	RN	**(CKN * !D * SE * SI)**	0.00174	0.00179	0.00183
	RN	**(CKN * !D * SE * !SI)**	0.00204	0.00209	0.00213
	RN	**(CKN * !D * SE * !SI)**	0.00001	0.00002	0.00004
	RN	**(CKN * !D * SE * !SI)**	-0.00005	-0.00004	-0.00002
	RN	**(CKN * !D * SE * !SI)**	0.00172	0.00177	0.00181
	RN	**(CKN * !D * !SE * SI)**	0.00204	0.00209	0.00213
	RN	**(CKN * !D * !SE * SI)**	-0.00000	0.00002	0.00004
	RN	**(CKN * !D * !SE * SI)**	-0.00005	-0.00004	-0.00003
	RN	**(CKN * !D * !SE * SI)**	0.00172	0.00177	0.00181
SDFFNRX1H7H	**RN**	**(CKN * !D * !SE * !SI)**	0.00204	0.00209	0.00213
	RN	**(CKN * !D * !SE * !SI)**	-0.00000	0.00002	0.00004
	RN	**(CKN * !D * !SE * !SI)**	-0.00005	-0.00004	-0.00003
	RN	**(CKN * !D * !SE * !SI)**	0.00172	0.00177	0.00181
	RN	**(!CKN * D * SE * SI)**	0.00279	0.00284	0.00288
	RN	**(!CKN * D * SE * SI)**	-0.00001	0.00001	0.00002
	RN	**(!CKN * D * SE * SI)**	-0.00002	-0.00001	0.00001
	RN	**(!CKN * D * SE * SI)**	0.00241	0.00247	0.00251
	RN	**(!CKN * D * SE * !SI)**	0.00275	0.00281	0.00285
	RN	**(!CKN * D * SE * !SI)**	-0.00001	0.00001	0.00002
	RN	**(!CKN * D * SE * !SI)**	-0.00002	-0.00001	0.00001
	RN	**(!CKN * D * SE * !SI)**	0.00238	0.00244	0.00248
	RN	**(!CKN * D * !SE * SI)**	0.00279	0.00284	0.00288
	RN	**(!CKN * D * !SE * SI)**	-0.00000	0.00001	0.00003
	RN	**(!CKN * D * !SE * SI)**	-0.00002	-0.00001	0.00001
	RN	**(!CKN * D * !SE * SI)**	0.00241	0.00247	0.00251
	RN	**(!CKN * D * !SE * !SI)**	0.00279	0.00284	0.00288
	RN	**(!CKN * D * !SE * !SI)**	-0.00000	0.00001	0.00003
	RN	**(!CKN * D * !SE * !SI)**	-0.00003	-0.00001	0.00001
	RN	**(!CKN * D * !SE * !SI)**	0.00241	0.00247	0.00251
	RN	**(!CKN * !D * SE * SI)**	0.00279	0.00284	0.00288
	RN	**(!CKN * !D * SE * SI)**	-0.00001	0.00001	0.00002
	RN	**(!CKN * !D * SE * SI)**	-0.00002	-0.00001	0.00001
	RN	**(!CKN * !D * SE * SI)**	0.00241	0.00247	0.00251
	RN	**(!CKN * !D * SE * !SI)**	0.00275	0.00281	0.00285
	RN	**(!CKN * !D * SE * !SI)**	-0.00001	0.00000	0.00002
	RN	**(!CKN * !D * SE * !SI)**	-0.00002	-0.00001	0.00001
	RN	**(!CKN * !D * SE * !SI)**	0.00238	0.00244	0.00248
	RN	**(!CKN * !D * !SE * SI)**	0.00275	0.00281	0.00285
	RN	**(!CKN * !D * !SE * SI)**	-0.00002	0.00001	0.00002
	RN	**(!CKN * !D * !SE * SI)**	-0.00002	-0.00001	0.00001
	RN	**(!CKN * !D * !SE * SI)**	0.00238	0.00244	0.00248
	RN	**(!CKN * !D * !SE * !SI)**	0.00275	0.00281	0.00285
	RN	**(!CKN * !D * !SE * !SI)**	-0.00002	0.00000	0.00002
	RN	**(!CKN * !D * !SE * !SI)**	-0.00002	-0.00001	0.00001
	RN	**(!CKN * !D * !SE * !SI)**	0.00238	0.00244	0.00248

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFNRX1H7H	CKN	(RN * SE)	0.00295	0.00301	0.00307
	CKN	(RN * SE)	-0.00003	-0.00002	-0.00001
	CKN	(RN * SE)	0.00002	0.00003	0.00004
	CKN	(RN * SE)	0.00255	0.00262	0.00267
	CKN	(RN * !SE)	0.00295	0.00301	0.00306
	CKN	(RN * !SE)	-0.00003	-0.00002	-0.00001
	CKN	(RN * !SE)	0.00002	0.00003	0.00004
	CKN	(RN * !SE)	0.00255	0.00262	0.00267

Passive power(pJ) for CKN rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNRX1H7H	0.00332	0.00336	0.00339
	-0.00001	-0.00001	0.00000
	-0.00003	-0.00003	-0.00002
	0.00403	0.00407	0.00410

Passive power(pJ) for CKN falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNRX1H7H	0.00425	0.00434	0.00442
	0.00000	0.00001	0.00001
	0.00002	0.00003	0.00003
	0.00352	0.00362	0.00370

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNRX1H7H	0.00163	0.00164	0.00165
	0.00014	0.00015	0.00015
	-0.00014	-0.00013	-0.00012
	0.00279	0.00281	0.00282

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNRX1H7H	0.00285	0.00286	0.00288
	-0.00015	-0.00015	-0.00014
	0.00012	0.00013	0.00014
	0.00165	0.00166	0.00168

Passive power(pJ) for RN rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNRX1H7H	0.00111	0.00114	0.00116
	0.00000	0.00000	0.00000
	-0.00001	-0.00000	-0.00000
	0.00173	0.00176	0.00179

Passive power(pJ) for RN falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNRX1H7H	0.00096	0.00099	0.00102
	0.00000	0.00000	0.00000
	0.00003	0.00003	0.00004
	0.00013	0.00015	0.00019

Passive power(pJ) for SE rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNRX1H7H	0.00266	0.00272	0.00280
	-0.00012	-0.00009	-0.00008
	0.00011	0.00012	0.00012
	0.00331	0.00336	0.00342

Passive power(pJ) for SE falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNRX1H7H	0.00301	0.00303	0.00306
	0.00008	0.00009	0.00012
	-0.00009	-0.00009	-0.00008
	0.00223	0.00226	0.00229

Passive power(pJ) for SI rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNRX1H7H	0.00138	0.00140	0.00142
	0.00014	0.00014	0.00016
	-0.00013	-0.00013	-0.00012
	0.00257	0.00259	0.00262

Passive power(pJ) for SI falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNRX1H7H	0.00306	0.00309	0.00312
	-0.00016	-0.00014	-0.00014
	0.00012	0.00013	0.00014
	0.00184	0.00186	0.00189

SDFFNRX2H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Negative Edge Trigger Scan D Flip-Flop with Async Clear
Q =!RN ?0 : falling (CKN) ? (SE&SI! !SE&D) : pre_Q
QN = !Q

Truth Table

INPUT					OUTPUT	
CKN	D	RN	SE	SI	Q	QN
F	0	1	0	x	0	1
F	x	1	1	0	0	1
F	x	1	1	1	1	0
F	1	1	0	x	1	0
x	x	0	x	x	0	1
x	x	1	x	x	IQ	IQN

Footprint

Cell Name	Area
SDFFNRX2H7H	10.64000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)	
	CKN	D	RN	SE	SI	Q	QN
SDFFNRX2H7H	0.00100	0.00087	0.00102	0.00213	0.00094	0.05687	0.05681

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
SDFFNRX2H7H	0.00000	0.12659	0.13617

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFNRX2H7H	CKN->Q (FR)	(RN * SE)	0.27559	0.45261	0.90032
	CKN->Q (FR)	(RN * !SE)	0.27556	0.45257	0.90017

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFNRX2H7H	CKN->Q (FF)	(RN * SE)	0.18699	0.34433	0.72947
	CKN->Q (FF)	(RN * !SE)	0.18704	0.34439	0.72947
	RN->Q (FF)	(CKN * D * SE * SI)	0.13690	0.28158	0.62381
	RN->Q (FF)	(CKN * D * SE * !SI)	0.13549	0.27991	0.62161
	RN->Q (FF)	(CKN * D * !SE * SI)	0.13690	0.28158	0.62381
	RN->Q (FF)	(CKN * D * !SE * !SI)	0.13690	0.28158	0.62381
	RN->Q (FF)	(CKN * !D * SE * SI)	0.13690	0.28157	0.62381
	RN->Q (FF)	(CKN * !D * SE * !SI)	0.13549	0.27991	0.62160
	RN->Q (FF)	(CKN * !D * !SE * SI)	0.13549	0.27991	0.62160
	RN->Q (FF)	(CKN * !D * !SE * !SI)	0.13549	0.27991	0.62160
	RN->Q (FF)	(!CKN * D * SE * SI)	0.14829	0.29328	0.63512
	RN->Q (FF)	(!CKN * D * SE * !SI)	0.14829	0.29328	0.63514
	RN->Q (FF)	(!CKN * D * !SE * SI)	0.14829	0.29328	0.63507
	RN->Q (FF)	(!CKN * D * !SE * !SI)	0.14829	0.29328	0.63507
	RN->Q (FF)	(!CKN * !D * SE * SI)	0.14829	0.29328	0.63506
	RN->Q (FF)	(!CKN * !D * SE * !SI)	0.14829	0.29328	0.63512
	RN->Q (FF)	(!CKN * !D * !SE * SI)	0.14829	0.29328	0.63506
	RN->Q (FF)	(!CKN * !D * !SE * !SI)	0.14829	0.29328	0.63506

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFNRX2H7H	CKN->QN (FR)	(RN * SE)	0.13609	0.33044	0.79380
	CKN->QN (FR)	(RN * !SE)	0.13613	0.33050	0.79359
	RN->QN (FR)	(CKN * D * SE * SI)	0.09243	0.26636	0.68167
	RN->QN (FR)	(CKN * D * SE * !SI)	0.09149	0.26486	0.67971
	RN->QN (FR)	(CKN * D * !SE * SI)	0.09244	0.26636	0.68165
	RN->QN (FR)	(CKN * D * !SE * !SI)	0.09244	0.26637	0.68165
	RN->QN (FR)	(CKN * !D * SE * SI)	0.09243	0.26637	0.68181
	RN->QN (FR)	(CKN * !D * SE * !SI)	0.09149	0.26485	0.67953
	RN->QN (FR)	(CKN * !D * !SE * SI)	0.09149	0.26486	0.67982
	RN->QN (FR)	(CKN * !D * !SE * !SI)	0.09149	0.26486	0.67952
	RN->QN (FR)	(!CKN * D * SE * SI)	0.09893	0.27926	0.69825
	RN->QN (FR)	(!CKN * D * SE * !SI)	0.09893	0.27926	0.69820
	RN->QN (FR)	(!CKN * D * !SE * SI)	0.09892	0.27926	0.69833
	RN->QN (FR)	(!CKN * D * !SE * !SI)	0.09892	0.27926	0.69827
	RN->QN (FR)	(!CKN * !D * SE * SI)	0.09893	0.27926	0.69825
	RN->QN (FR)	(!CKN * !D * SE * !SI)	0.09893	0.27926	0.69833
	RN->QN (FR)	(!CKN * !D * !SE * SI)	0.09893	0.27926	0.69825
	RN->QN (FR)	(!CKN * !D * !SE * !SI)	0.09893	0.27926	0.69825

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFNRX2H7H	CKN->QN (FF)	(RN * SE)	0.21384	0.40308	0.80746
	CKN->QN (FF)	(RN * !SE)	0.21380	0.40308	0.80745

Constraint Information

Min Pulse Width (ns) for CKN:

Cell Name	High	Low
SDFFNRX2H7H	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNRX2H7H	**hold**	**CKN (F)**	-0.15475	0.01252	0.20374
	setup	**CKN (F)**	-0.14184	0.07329	0.29407

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNRX2H7H	**hold**	**CKN (F)**	-0.28127	-0.11478	0.00123
	setup	**CKN (F)**	0.05625	0.18976	0.40024

Constraints(ns) for RN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNRX2H7H	**recovery**	**CKN (F)**	-0.22746	-0.01584	0.15520
	removal	**CKN (F)**	-0.00131	0.12983	0.31777

Min Pulse Width (ns) for RN:

Cell Name	High	Low
SDFFNRX2H7H	-	0.9851

Constraints(ns) for SE rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNRX2H7H	hold	CKN (F)	-0.10151	0.02811	0.21169
	setup	CKN (F)	0.08246	0.19705	0.32780

Constraints(ns) for SE falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNRX2H7H	hold	CKN (F)	-0.17462	-0.00806	0.18023
	setup	CKN (F)	0.03656	0.16671	0.36910

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNRX2H7H	hold	CKN (F)	-0.16545	0.00478	0.19718
	setup	CKN (F)	-0.13036	0.08615	0.31401

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNRX2H7H	hold	CKN (F)	-0.29244	-0.12541	-0.00929
	setup	CKN (F)	0.07112	0.20507	0.41670

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFNRX2H7H	CKN	(RN * SE)	0.00309	0.00317	0.00323
	CKN	(RN * SE)	-0.00002	-0.00002	0.00000
	CKN	(RN * SE)	0.00003	0.00003	0.00004
	CKN	(RN * SE)	0.00268	0.00276	0.00282
	CKN	(RN * !SE)	0.00310	0.00317	0.00323
	CKN	(RN * !SE)	-0.00002	-0.00002	-0.00001
	CKN	(RN * !SE)	0.00002	0.00003	0.00004
	CKN	(RN * !SE)	0.00269	0.00276	0.00282

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

SDFFNRX2H7H	CKN	(RN * SE)	0.00270	0.00279	0.00286
	CKN	(RN * SE)	0.00000	0.00002	0.00003
	CKN	(RN * SE)	-0.00004	-0.00003	-0.00003
	CKN	(RN * SE)	0.00243	0.00251	0.00259
	CKN	(RN * !SE)	0.00270	0.00279	0.00286
	CKN	(RN * !SE)	0.00001	0.00002	0.00003
	CKN	(RN * !SE)	-0.00004	-0.00003	-0.00002
	CKN	(RN * !SE)	0.00243	0.00251	0.00259
	RN	(CKN * D * SE * SI)	0.00216	0.00222	0.00227
	RN	(CKN * D * SE * SI)	0.00002	0.00003	0.00003
	RN	(CKN * D * SE * SI)	-0.00007	-0.00004	-0.00003
	RN	(CKN * D * SE * SI)	0.00188	0.00194	0.00199
	RN	(CKN * D * SE * !SI)	0.00215	0.00221	0.00226
	RN	(CKN * D * SE * !SI)	0.00001	0.00002	0.00003
	RN	(CKN * D * SE * !SI)	-0.00005	-0.00004	-0.00004
	RN	(CKN * D * SE * !SI)	0.00186	0.00192	0.00197
	RN	(CKN * D * !SE * SI)	0.00216	0.00222	0.00227
	RN	(CKN * D * !SE * SI)	0.00002	0.00003	0.00003
	RN	(CKN * D * !SE * SI)	-0.00006	-0.00004	-0.00002
	RN	(CKN * D * !SE * SI)	0.00188	0.00194	0.00198
	RN	(CKN * D * !SE * !SI)	0.00216	0.00222	0.00227
	RN	(CKN * D * !SE * !SI)	0.00002	0.00003	0.00003
	RN	(CKN * D * !SE * !SI)	-0.00006	-0.00004	-0.00003
	RN	(CKN * D * !SE * !SI)	0.00188	0.00194	0.00198
	RN	(CKN * !D * SE * SI)	0.00216	0.00222	0.00227
	RN	(CKN * !D * SE * SI)	0.00003	0.00003	0.00003
	RN	(CKN * !D * SE * SI)	-0.00007	-0.00004	-0.00002
	RN	(CKN * !D * SE * SI)	0.00188	0.00194	0.00199
	RN	(CKN * !D * SE * !SI)	0.00215	0.00221	0.00226
	RN	(CKN * !D * SE * !SI)	0.00001	0.00002	0.00003
	RN	(CKN * !D * SE * !SI)	-0.00005	-0.00004	-0.00004
	RN	(CKN * !D * SE * !SI)	0.00186	0.00192	0.00197
	RN	(CKN * !D * !SE * SI)	0.00215	0.00221	0.00226
	RN	(CKN * !D * !SE * SI)	0.00001	0.00002	0.00003
	RN	(CKN * !D * !SE * SI)	-0.00004	-0.00004	-0.00004
	RN	(CKN * !D * !SE * SI)	0.00186	0.00192	0.00197
	RN	(CKN * !D * !SE * !SI)	0.00215	0.00221	0.00226
	RN	(CKN * !D * !SE * !SI)	0.00001	0.00002	0.00003
	RN	(CKN * !D * !SE * !SI)	-0.00004	-0.00004	-0.00004
	RN	(CKN * !D * !SE * !SI)	0.00186	0.00192	0.00197
	RN	(!CKN * D * SE * SI)	0.00288	0.00295	0.00300
	RN	(!CKN * D * SE * SI)	-0.00000	0.00001	0.00002
	RN	(!CKN * D * SE * SI)	-0.00002	-0.00001	-0.00001
	RN	(!CKN * D * SE * SI)	0.00255	0.00262	0.00267
	RN	(!CKN * D * SE * !SI)	0.00285	0.00292	0.00297
	RN	(!CKN * D * SE * !SI)	-0.00000	0.00001	0.00003
	RN	(!CKN * D * SE * !SI)	-0.00002	-0.00001	-0.00000
	RN	(!CKN * D * SE * !SI)	0.00252	0.00259	0.00264
	RN	(!CKN * D * !SE * SI)	0.00288	0.00295	0.00300
	RN	(!CKN * D * !SE * SI)	-0.00000	0.00001	0.00002
	RN	(!CKN * D * !SE * SI)	-0.00002	-0.00001	0.00001
	RN	(!CKN * D * !SE * SI)	0.00255	0.00262	0.00267
	RN	(!CKN * D * !SE * !SI)	0.00288	0.00295	0.00300
	RN	(!CKN * D * !SE * !SI)	-0.00000	0.00001	0.00002
	RN	(!CKN * D * !SE * !SI)	-0.00002	-0.00001	0.00001
	RN	(!CKN * D * !SE * !SI)	0.00255	0.00262	0.00267
	RN	(!CKN * !D * SE * SI)	0.00288	0.00295	0.00300
	RN	(!CKN * !D * SE * SI)	-0.00000	0.00001	0.00002
	RN	(!CKN * !D * SE * SI)	-0.00002	-0.00001	-0.00001
	RN	(!CKN * !D * SE * SI)	0.00255	0.00262	0.00267
	RN	(!CKN * !D * SE * !SI)	0.00285	0.00292	0.00297
	RN	(!CKN * !D * SE * !SI)	-0.00000	0.00001	0.00003
	RN	(!CKN * !D * SE * !SI)	-0.00002	-0.00001	-0.00000
	RN	(!CKN * !D * SE * !SI)	0.00252	0.00259	0.00264
	RN	(!CKN * !D * !SE * SI)	0.00285	0.00292	0.00297
	RN	(!CKN * !D * !SE * SI)	0.00001	0.00001	0.00003
	RN	(!CKN * !D * !SE * SI)	-0.00001	-0.00001	-0.00000
	RN	(!CKN * !D * !SE * SI)	0.00252	0.00259	0.00264
	RN	(!CKN * !D * !SE * !SI)	0.00285	0.00292	0.00297
	RN	(!CKN * !D * !SE * !SI)	0.00001	0.00001	0.00003
	RN	(!CKN * !D * !SE * !SI)	-0.00001	-0.00001	-0.00001
	RN	(!CKN * !D * !SE * !SI)	0.00252	0.00259	0.00264

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

SDFFNRX2H7H	**CKN**	**(RN * SE)**	0.00271	0.00279	0.00286
	CKN	**(RN * SE)**	0.00001	0.00002	0.00003
	CKN	**(RN * SE)**	-0.00004	-0.00003	-0.00002
	CKN	**(RN * SE)**	0.00243	0.00251	0.00259
	CKN	**(RN * !SE)**	0.00271	0.00279	0.00286
	CKN	**(RN * !SE)**	0.00001	0.00002	0.00002
	CKN	**(RN * !SE)**	-0.00004	-0.00003	-0.00002
	CKN	**(RN * !SE)**	0.00243	0.00251	0.00259
	RN	**(CKN * D * SE * SI)**	0.00216	0.00222	0.00226
	RN	**(CKN * D * SE * SI)**	0.00000	0.00003	0.00004
	RN	**(CKN * D * SE * SI)**	-0.00007	-0.00004	-0.00002
	RN	**(CKN * D * SE * SI)**	0.00188	0.00194	0.00198
	RN	**(CKN * D * SE * !SI)**	0.00215	0.00221	0.00226
	RN	**(CKN * D * SE * !SI)**	0.00000	0.00002	0.00004
	RN	**(CKN * D * SE * !SI)**	-0.00005	-0.00004	-0.00004
	RN	**(CKN * D * SE * !SI)**	0.00186	0.00192	0.00197
	RN	**(CKN * D * !SE * SI)**	0.00216	0.00222	0.00226
	RN	**(CKN * D * !SE * SI)**	0.00000	0.00003	0.00005
	RN	**(CKN * D * !SE * SI)**	-0.00006	-0.00004	-0.00002
	RN	**(CKN * D * !SE * SI)**	0.00188	0.00194	0.00198
	RN	**(CKN * D * !SE * !SI)**	0.00216	0.00222	0.00226
	RN	**(CKN * D * !SE * !SI)**	0.00000	0.00003	0.00005
	RN	**(CKN * D * !SE * !SI)**	-0.00006	-0.00004	-0.00002
	RN	**(CKN * D * !SE * !SI)**	0.00187	0.00194	0.00198
	RN	**(CKN * !D * SE * SI)**	0.00216	0.00222	0.00226
	RN	**(CKN * !D * SE * SI)**	0.00000	0.00003	0.00005
	RN	**(CKN * !D * SE * SI)**	-0.00007	-0.00004	-0.00002
	RN	**(CKN * !D * SE * SI)**	0.00188	0.00194	0.00198
	RN	**(CKN * !D * SE * !SI)**	0.00215	0.00221	0.00226
	RN	**(CKN * !D * SE * !SI)**	0.00000	0.00002	0.00004
	RN	**(CKN * !D * SE * !SI)**	-0.00005	-0.00004	-0.00004
	RN	**(CKN * !D * SE * !SI)**	0.00186	0.00192	0.00197
	RN	**(CKN * !D * !SE * SI)**	0.00215	0.00221	0.00226
	RN	**(CKN * !D * !SE * SI)**	0.00000	0.00002	0.00004
	RN	**(CKN * !D * !SE * SI)**	-0.00005	-0.00004	-0.00004
	RN	**(CKN * !D * !SE * SI)**	0.00186	0.00192	0.00197
	RN	**(CKN * !D * !SE * !SI)**	0.00215	0.00221	0.00226
	RN	**(CKN * !D * !SE * !SI)**	0.00000	0.00002	0.00004
	RN	**(CKN * !D * !SE * !SI)**	-0.00005	-0.00004	-0.00004
	RN	**(CKN * !D * !SE * !SI)**	0.00186	0.00192	0.00197
	RN	**(!CKN * D * SE * SI)**	0.00288	0.00295	0.00300
	RN	**(!CKN * D * SE * SI)**	-0.00001	0.00001	0.00004
	RN	**(!CKN * D * SE * SI)**	-0.00003	-0.00001	0.00001
	RN	**(!CKN * D * SE * SI)**	0.00255	0.00262	0.00267
	RN	**(!CKN * D * SE * !SI)**	0.00285	0.00292	0.00297
	RN	**(!CKN * D * SE * !SI)**	-0.00001	0.00001	0.00002
	RN	**(!CKN * D * SE * !SI)**	-0.00002	-0.00001	-0.00000
	RN	**(!CKN * D * SE * !SI)**	0.00252	0.00259	0.00264
	RN	**(!CKN * D * !SE * SI)**	0.00288	0.00295	0.00300
	RN	**(!CKN * D * !SE * SI)**	-0.00001	0.00001	0.00004
	RN	**(!CKN * D * !SE * SI)**	-0.00002	-0.00001	0.00001
	RN	**(!CKN * D * !SE * SI)**	0.00255	0.00263	0.00267
	RN	**(!CKN * D * !SE * !SI)**	0.00288	0.00295	0.00300
	RN	**(!CKN * D * !SE * !SI)**	-0.00001	0.00001	0.00004
	RN	**(!CKN * D * !SE * !SI)**	-0.00002	-0.00001	0.00001
	RN	**(!CKN * D * !SE * !SI)**	0.00255	0.00262	0.00267
	RN	**(!CKN * !D * SE * SI)**	0.00288	0.00295	0.00300
	RN	**(!CKN * !D * SE * SI)**	-0.00001	0.00001	0.00004
	RN	**(!CKN * !D * SE * SI)**	-0.00003	-0.00001	0.00001
	RN	**(!CKN * !D * SE * SI)**	0.00255	0.00262	0.00267
	RN	**(!CKN * !D * SE * !SI)**	0.00285	0.00292	0.00297
	RN	**(!CKN * !D * SE * !SI)**	-0.00001	0.00001	0.00003
	RN	**(!CKN * !D * SE * !SI)**	-0.00002	-0.00001	-0.00001
	RN	**(!CKN * !D * SE * !SI)**	0.00252	0.00259	0.00264
	RN	**(!CKN * !D * !SE * SI)**	0.00285	0.00292	0.00297
	RN	**(!CKN * !D * !SE * SI)**	-0.00001	0.00001	0.00004
	RN	**(!CKN * !D * !SE * SI)**	-0.00002	-0.00001	0.00000
	RN	**(!CKN * !D * !SE * SI)**	0.00252	0.00259	0.00264
	RN	**(!CKN * !D * !SE * !SI)**	0.00285	0.00292	0.00297
	RN	**(!CKN * !D * !SE * !SI)**	-0.00001	0.00001	0.00004
	RN	**(!CKN * !D * !SE * !SI)**	-0.00002	-0.00001	-0.00000
	RN	**(!CKN * !D * !SE * !SI)**	0.00252	0.00259	0.00264

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFNRX2H7H	CKN	(RN * SE)	0.00310	0.00317	0.00323
	CKN	(RN * SE)	-0.00002	-0.00002	-0.00001
	CKN	(RN * SE)	0.00002	0.00003	0.00004
	CKN	(RN * SE)	0.00269	0.00276	0.00282
	CKN	(RN * !SE)	0.00311	0.00317	0.00323
	CKN	(RN * !SE)	-0.00002	-0.00002	-0.00001
	CKN	(RN * !SE)	0.00002	0.00003	0.00004
	CKN	(RN * !SE)	0.00269	0.00276	0.00282

Passive power(pJ) for CKN rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNRX2H7H	0.00338	0.00342	0.00344
	-0.00003	-0.00002	-0.00001
	-0.00003	-0.00002	-0.00001
	0.00407	0.00410	0.00413

Passive power(pJ) for CKN falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNRX2H7H	0.00435	0.00444	0.00451
	0.00001	0.00002	0.00003
	0.00001	0.00002	0.00004
	0.00365	0.00374	0.00383

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNRX2H7H	0.00163	0.00164	0.00165
	0.00013	0.00013	0.00014
	-0.00014	-0.00013	-0.00013
	0.00276	0.00279	0.00281

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNRX2H7H	0.00280	0.00281	0.00283
	-0.00014	-0.00013	-0.00013
	0.00013	0.00013	0.00014
	0.00161	0.00162	0.00163

Passive power(pJ) for RN rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNRX2H7H	0.00117	0.00119	0.00122
	0.00000	0.00000	0.00000
	-0.00000	0.00000	0.00000
	0.00175	0.00177	0.00180

Passive power(pJ) for RN falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNRX2H7H	0.00096	0.00098	0.00102
	0.00000	0.00000	0.00000
	0.00003	0.00004	0.00004
	0.00014	0.00016	0.00020

Passive power(pJ) for SE rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNRX2H7H	0.00262	0.00268	0.00275
	-0.00010	-0.00008	-0.00007
	0.00008	0.00011	0.00012
	0.00328	0.00333	0.00342

Passive power(pJ) for SE falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNRX2H7H	0.00301	0.00303	0.00306
	0.00007	0.00008	0.00010
	-0.00008	-0.00008	-0.00008
	0.00222	0.00224	0.00228

Passive power(pJ) for SI rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNRX2H7H	0.00137	0.00139	0.00140
	0.00012	0.00013	0.00015
	-0.00012	-0.00012	-0.00011
	0.00254	0.00256	0.00258

Passive power(pJ) for SI falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNRX2H7H	0.00302	0.00304	0.00307
	-0.00015	-0.00013	-0.00012
	0.00011	0.00012	0.00013
	0.00181	0.00184	0.00187

SDFFNRX3H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Negative Edge Trigger Scan D Flip-Flop with Async Clear
Q =!RN ?0 : falling (CKN) ? (SE&SI! !SE&D) : pre_Q
QN = !Q

Truth Table

INPUT					OUTPUT	
CKN	D	RN	SE	SI	Q	QN
F	0	1	0	x	0	1
F	x	1	1	0	0	1
F	x	1	1	1	1	0
F	1	1	0	x	1	0
x	x	0	x	x	0	1
x	x	1	x	x	IQ	IQN

Footprint

Cell Name	Area
SDFFNRX3H7H	11.76000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)	
	CKN	D	RN	SE	SI	Q	QN
SDFFNRX3H7H	0.00111	0.00095	0.00114	0.00236	0.00094	0.09040	0.09164

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
SDFFNRX3H7H	0.00000	0.14958	0.16667

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFNRX3H7H	CKN->Q (FR)	(RN * SE)	0.29636	0.47086	0.91547
	CKN->Q (FR)	(RN * !SE)	0.29630	0.47084	0.91563

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFNRX3H7H	CKN->Q (FF)	(RN * SE)	0.19821	0.35585	0.73938
	CKN->Q (FF)	(RN * !SE)	0.19836	0.35601	0.73944
	RN->Q (FF)	(CKN * D * SE * SI)	0.14516	0.28978	0.62895
	RN->Q (FF)	(CKN * D * SE * !SI)	0.14353	0.28792	0.62659
	RN->Q (FF)	(CKN * D * !SE * SI)	0.14516	0.28979	0.62896
	RN->Q (FF)	(CKN * D * !SE * !SI)	0.14516	0.28979	0.62896
	RN->Q (FF)	(CKN * !D * SE * SI)	0.14516	0.28978	0.62895
	RN->Q (FF)	(CKN * !D * SE * !SI)	0.14353	0.28792	0.62659
	RN->Q (FF)	(CKN * !D * !SE * SI)	0.14353	0.28792	0.62660
	RN->Q (FF)	(CKN * !D * !SE * !SI)	0.14353	0.28792	0.62660
	RN->Q (FF)	(!CKN * D * SE * SI)	0.15797	0.30310	0.64191
	RN->Q (FF)	(!CKN * D * SE * !SI)	0.15798	0.30310	0.64186
	RN->Q (FF)	(!CKN * D * !SE * SI)	0.15797	0.30310	0.64192
	RN->Q (FF)	(!CKN * D * !SE * !SI)	0.15797	0.30310	0.64192
	RN->Q (FF)	(!CKN * !D * SE * SI)	0.15797	0.30310	0.64191
	RN->Q (FF)	(!CKN * !D * SE * !SI)	0.15798	0.30310	0.64186
	RN->Q (FF)	(!CKN * !D * !SE * SI)	0.15797	0.30310	0.64191
	RN->Q (FF)	(!CKN * !D * !SE * !SI)	0.15797	0.30310	0.64191

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFNRX3H7H	CKN->QN (FR)	(RN * SE)	0.13708	0.33517	0.80318
	CKN->QN (FR)	(RN * !SE)	0.13719	0.33533	0.80359
	RN->QN (FR)	(CKN * D * SE * SI)	0.09340	0.26923	0.68679
	RN->QN (FR)	(CKN * D * SE * !SI)	0.09240	0.26757	0.68487
	RN->QN (FR)	(CKN * D * !SE * SI)	0.09341	0.26923	0.68678
	RN->QN (FR)	(CKN * D * !SE * !SI)	0.09341	0.26923	0.68678
	RN->QN (FR)	(CKN * !D * SE * SI)	0.09340	0.26923	0.68681
	RN->QN (FR)	(CKN * !D * SE * !SI)	0.09240	0.26755	0.68449
	RN->QN (FR)	(CKN * !D * !SE * SI)	0.09240	0.26756	0.68461
	RN->QN (FR)	(CKN * !D * !SE * !SI)	0.09240	0.26756	0.68457
	RN->QN (FR)	(!CKN * D * SE * SI)	0.10007	0.28270	0.70422
	RN->QN (FR)	(!CKN * D * SE * !SI)	0.10007	0.28270	0.70423
	RN->QN (FR)	(!CKN * D * !SE * SI)	0.10007	0.28271	0.70423
	RN->QN (FR)	(!CKN * D * !SE * !SI)	0.10007	0.28271	0.70423
	RN->QN (FR)	(!CKN * !D * SE * SI)	0.10007	0.28271	0.70428
	RN->QN (FR)	(!CKN * !D * SE * !SI)	0.10007	0.28270	0.70421
	RN->QN (FR)	(!CKN * !D * !SE * SI)	0.10007	0.28271	0.70421
	RN->QN (FR)	(!CKN * !D * !SE * !SI)	0.10007	0.28270	0.70421

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFNRX3H7H	CKN->QN (FF)	(RN * SE)	0.21361	0.40731	0.81661
	CKN->QN (FF)	(RN * !SE)	0.21355	0.40726	0.81671

Constraint Information

Min Pulse Width (ns) for CKN:

Cell Name	High	Low
SDFFNRX3H7H	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNRX3H7H	**hold**	**CKN (F)**	-0.15217	0.00759	0.19992
	setup	**CKN (F)**	-0.13246	0.08067	0.30649

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNRX3H7H	**hold**	**CKN (F)**	-0.27383	-0.10956	0.00472
	setup	**CKN (F)**	0.05081	0.18459	0.39237

Constraints(ns) for RN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNRX3H7H	**recovery**	**CKN (F)**	-0.22332	-0.01547	0.15121
	removal	**CKN (F)**	0.00719	0.13220	0.31704

Min Pulse Width (ns) for RN:

Cell Name	High	Low
SDFFNRX3H7H	-	0.9851

Constraints(ns) for SE rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNRX3H7H	hold	CKN (F)	-0.10300	0.02046	0.19991
	setup	CKN (F)	0.09520	0.20830	0.33600

Constraints(ns) for SE falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNRX3H7H	hold	CKN (F)	-0.16956	-0.00827	0.17830
	setup	CKN (F)	0.03838	0.16404	0.36501

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNRX3H7H	hold	CKN (F)	-0.16528	-0.00251	0.18860
	setup	CKN (F)	-0.11657	0.10040	0.33060

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNRX3H7H	hold	CKN (F)	-0.29878	-0.13307	-0.02272
	setup	CKN (F)	0.08406	0.22012	0.44015

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFNRX3H7H	CKN	(RN * SE)	0.00363	0.00372	0.00382
	CKN	(RN * SE)	-0.00002	-0.00001	-0.00001
	CKN	(RN * SE)	0.00002	0.00003	0.00005
	CKN	(RN * SE)	0.00317	0.00327	0.00336
	CKN	(RN * !SE)	0.00363	0.00372	0.00382
	CKN	(RN * !SE)	-0.00001	-0.00001	-0.00001
	CKN	(RN * !SE)	0.00002	0.00003	0.00006
	CKN	(RN * !SE)	0.00317	0.00327	0.00336

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

SDFFNRX3H7H	**CKN**	**(RN * SE)**	0.00324	0.00337	0.00347
	CKN	**(RN * SE)**	0.00001	0.00001	0.00002
	CKN	**(RN * SE)**	-0.00004	-0.00003	-0.00002
	CKN	**(RN * SE)**	0.00293	0.00305	0.00316
	CKN	**(RN * !SE)**	0.00324	0.00337	0.00347
	CKN	**(RN * !SE)**	0.00001	0.00001	0.00001
	CKN	**(RN * !SE)**	-0.00004	-0.00003	-0.00002
	CKN	**(RN * !SE)**	0.00293	0.00305	0.00316
	RN	**(CKN * D * SE * SI)**	0.00263	0.00274	0.00281
	RN	**(CKN * D * SE * SI)**	0.00000	0.00003	0.00005
	RN	**(CKN * D * SE * SI)**	-0.00005	-0.00004	-0.00004
	RN	**(CKN * D * SE * SI)**	0.00231	0.00241	0.00248
	RN	**(CKN * D * SE * !SI)**	0.00262	0.00273	0.00280
	RN	**(CKN * D * SE * !SI)**	-0.00001	0.00002	0.00004
	RN	**(CKN * D * SE * !SI)**	-0.00005	-0.00004	-0.00004
	RN	**(CKN * D * SE * !SI)**	0.00228	0.00239	0.00247
	RN	**(CKN * D * !SE * SI)**	0.00263	0.00274	0.00281
	RN	**(CKN * D * !SE * SI)**	0.00000	0.00003	0.00006
	RN	**(CKN * D * !SE * SI)**	-0.00005	-0.00004	-0.00003
	RN	**(CKN * D * !SE * SI)**	0.00231	0.00241	0.00248
	RN	**(CKN * D * !SE * !SI)**	0.00263	0.00274	0.00281
	RN	**(CKN * D * !SE * !SI)**	-0.00001	0.00003	0.00006
	RN	**(CKN * D * !SE * !SI)**	-0.00005	-0.00004	-0.00003
	RN	**(CKN * D * !SE * !SI)**	0.00231	0.00241	0.00248
	RN	**(CKN * !D * SE * SI)**	0.00263	0.00274	0.00281
	RN	**(CKN * !D * SE * SI)**	0.00000	0.00003	0.00005
	RN	**(CKN * !D * SE * SI)**	-0.00005	-0.00004	-0.00004
	RN	**(CKN * !D * SE * SI)**	0.00231	0.00241	0.00248
	RN	**(CKN * !D * SE * !SI)**	0.00262	0.00273	0.00280
	RN	**(CKN * !D * SE * !SI)**	-0.00001	0.00002	0.00004
	RN	**(CKN * !D * SE * !SI)**	-0.00005	-0.00004	-0.00004
	RN	**(CKN * !D * SE * !SI)**	0.00228	0.00239	0.00247
	RN	**(CKN * !D * !SE * SI)**	0.00262	0.00273	0.00280
	RN	**(CKN * !D * !SE * SI)**	-0.00001	0.00002	0.00004
	RN	**(CKN * !D * !SE * SI)**	-0.00004	-0.00004	-0.00004
	RN	**(CKN * !D * !SE * SI)**	0.00228	0.00239	0.00247
	RN	**(CKN * !D * !SE * !SI)**	0.00262	0.00273	0.00280
	RN	**(CKN * !D * !SE * !SI)**	-0.00001	0.00002	0.00004
	RN	**(CKN * !D * !SE * !SI)**	-0.00004	-0.00004	-0.00004
	RN	**(CKN * !D * !SE * !SI)**	0.00228	0.00239	0.00247
	RN	**(!CKN * D * SE * SI)**	0.00344	0.00355	0.00363
	RN	**(!CKN * D * SE * SI)**	-0.00001	0.00001	0.00002
	RN	**(!CKN * D * SE * SI)**	-0.00003	-0.00001	0.00001
	RN	**(!CKN * D * SE * SI)**	0.00306	0.00317	0.00325
	RN	**(!CKN * D * SE * !SI)**	0.00341	0.00352	0.00360
	RN	**(!CKN * D * SE * !SI)**	-0.00001	0.00001	0.00003
	RN	**(!CKN * D * SE * !SI)**	-0.00003	-0.00001	0.00001
	RN	**(!CKN * D * SE * !SI)**	0.00303	0.00314	0.00322
	RN	**(!CKN * D * !SE * SI)**	0.00344	0.00355	0.00363
	RN	**(!CKN * D * !SE * SI)**	-0.00001	0.00001	0.00002
	RN	**(!CKN * D * !SE * SI)**	-0.00003	-0.00001	0.00002
	RN	**(!CKN * D * !SE * SI)**	0.00306	0.00317	0.00325
	RN	**(!CKN * D * !SE * !SI)**	0.00344	0.00355	0.00363
	RN	**(!CKN * D * !SE * !SI)**	-0.00001	0.00001	0.00002
	RN	**(!CKN * D * !SE * !SI)**	-0.00003	-0.00001	0.00002
	RN	**(!CKN * D * !SE * !SI)**	0.00306	0.00317	0.00325
	RN	**(!CKN * !D * SE * SI)**	0.00344	0.00355	0.00363
	RN	**(!CKN * !D * SE * SI)**	-0.00001	0.00001	0.00002
	RN	**(!CKN * !D * SE * SI)**	-0.00003	-0.00001	0.00001
	RN	**(!CKN * !D * SE * SI)**	0.00306	0.00317	0.00325
	RN	**(!CKN * !D * SE * !SI)**	0.00341	0.00352	0.00360
	RN	**(!CKN * !D * SE * !SI)**	-0.00001	0.00001	0.00003
	RN	**(!CKN * !D * SE * !SI)**	-0.00003	-0.00001	0.00001
	RN	**(!CKN * !D * SE * !SI)**	0.00303	0.00314	0.00322
	RN	**(!CKN * !D * !SE * SI)**	0.00341	0.00352	0.00360
	RN	**(!CKN * !D * !SE * SI)**	-0.00001	0.00001	0.00002
	RN	**(!CKN * !D * !SE * SI)**	-0.00001	-0.00001	0.00001
	RN	**(!CKN * !D * !SE * SI)**	0.00303	0.00314	0.00322
	RN	**(!CKN * !D * !SE * !SI)**	0.00341	0.00352	0.00360
	RN	**(!CKN * !D * !SE * !SI)**	-0.00001	0.00001	0.00002
	RN	**(!CKN * !D * !SE * !SI)**	-0.00001	-0.00001	0.00001
	RN	**(!CKN * !D * !SE * !SI)**	0.00303	0.00314	0.00322

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

	CKN	**(RN * SE)**	0.00324	0.00337	0.00348
	CKN	**(RN * SE)**	0.00000	0.00001	0.00003
	CKN	**(RN * SE)**	-0.00005	-0.00003	-0.00001
	CKN	**(RN * SE)**	0.00293	0.00305	0.00316
	CKN	**(RN * !SE)**	0.00324	0.00337	0.00348
	CKN	**(RN * !SE)**	0.00000	0.00002	0.00004
	CKN	**(RN * !SE)**	-0.00005	-0.00003	-0.00002
	CKN	**(RN * !SE)**	0.00293	0.00306	0.00316
	RN	**(CKN * D * SE * SI)**	0.00263	0.00274	0.00281
	RN	**(CKN * D * SE * SI)**	0.00002	0.00003	0.00004
	RN	**(CKN * D * SE * SI)**	-0.00007	-0.00004	-0.00001
	RN	**(CKN * D * SE * SI)**	0.00229	0.00241	0.00248
	RN	**(CKN * D * SE * !SI)**	0.00261	0.00273	0.00280
	RN	**(CKN * D * SE * !SI)**	-0.00001	0.00002	0.00003
	RN	**(CKN * D * SE * !SI)**	-0.00005	-0.00004	-0.00001
	RN	**(CKN * D * SE * !SI)**	0.00228	0.00239	0.00247
	RN	**(CKN * D * !SE * SI)**	0.00263	0.00274	0.00281
	RN	**(CKN * D * !SE * SI)**	-0.00000	0.00003	0.00004
	RN	**(CKN * D * !SE * SI)**	-0.00022	-0.00005	-0.00003
	RN	**(CKN * D * !SE * SI)**	0.00230	0.00242	0.00258
	RN	**(CKN * D * !SE * !SI)**	0.00263	0.00274	0.00281
	RN	**(CKN * D * !SE * !SI)**	-0.00009	0.00002	0.00004
	RN	**(CKN * D * !SE * !SI)**	-0.00078	-0.00006	-0.00003
	RN	**(CKN * D * !SE * !SI)**	0.00230	0.00243	0.00302
	RN	**(CKN * !D * SE * SI)**	0.00263	0.00274	0.00281
	RN	**(CKN * !D * SE * SI)**	0.00002	0.00003	0.00004
	RN	**(CKN * !D * SE * SI)**	-0.00007	-0.00004	-0.00001
	RN	**(CKN * !D * SE * SI)**	0.00229	0.00241	0.00248
	RN	**(CKN * !D * SE * !SI)**	0.00261	0.00273	0.00280
	RN	**(CKN * !D * SE * !SI)**	-0.00001	0.00002	0.00003
	RN	**(CKN * !D * SE * !SI)**	-0.00005	-0.00004	-0.00001
	RN	**(CKN * !D * SE * !SI)**	0.00228	0.00239	0.00247
	RN	**(CKN * !D * !SE * SI)**	0.00261	0.00273	0.00280
	RN	**(CKN * !D * !SE * SI)**	-0.00001	0.00002	0.00004
	RN	**(CKN * !D * !SE * SI)**	-0.00005	-0.00004	-0.00001
SDFFNRX3H7H	**RN**	**(CKN * !D * !SE * SI)**	0.00228	0.00239	0.00247
	RN	**(CKN * !D * !SE * !SI)**	0.00261	0.00273	0.00280
	RN	**(CKN * !D * !SE * !SI)**	-0.00000	0.00002	0.00004
	RN	**(CKN * !D * !SE * !SI)**	-0.00005	-0.00004	-0.00001
	RN	**(CKN * !D * !SE * !SI)**	0.00228	0.00239	0.00247
	RN	**(!CKN * D * SE * SI)**	0.00344	0.00355	0.00363
	RN	**(!CKN * D * SE * SI)**	-0.00002	0.00001	0.00003
	RN	**(!CKN * D * SE * SI)**	-0.00003	-0.00001	0.00002
	RN	**(!CKN * D * SE * SI)**	0.00306	0.00317	0.00325
	RN	**(!CKN * D * SE * !SI)**	0.00341	0.00352	0.00360
	RN	**(!CKN * D * SE * !SI)**	-0.00002	0.00001	0.00003
	RN	**(!CKN * D * SE * !SI)**	-0.00003	-0.00001	0.00002
	RN	**(!CKN * D * SE * !SI)**	0.00303	0.00314	0.00322
	RN	**(!CKN * D * !SE * SI)**	0.00344	0.00355	0.00364
	RN	**(!CKN * D * !SE * SI)**	-0.00002	0.00000	0.00003
	RN	**(!CKN * D * !SE * SI)**	-0.00004	-0.00001	0.00001
	RN	**(!CKN * D * !SE * SI)**	0.00306	0.00317	0.00325
	RN	**(!CKN * D * !SE * !SI)**	0.00344	0.00355	0.00364
	RN	**(!CKN * D * !SE * !SI)**	-0.00002	0.00000	0.00003
	RN	**(!CKN * D * !SE * !SI)**	-0.00004	-0.00001	0.00001
	RN	**(!CKN * D * !SE * !SI)**	0.00306	0.00317	0.00325
	RN	**(!CKN * !D * SE * SI)**	0.00344	0.00355	0.00363
	RN	**(!CKN * !D * SE * SI)**	-0.00002	0.00001	0.00003
	RN	**(!CKN * !D * SE * SI)**	-0.00003	-0.00001	0.00002
	RN	**(!CKN * !D * SE * SI)**	0.00306	0.00317	0.00325
	RN	**(!CKN * !D * SE * !SI)**	0.00341	0.00352	0.00360
	RN	**(!CKN * !D * SE * !SI)**	-0.00002	0.00001	0.00003
	RN	**(!CKN * !D * SE * !SI)**	-0.00003	-0.00001	0.00002
	RN	**(!CKN * !D * SE * !SI)**	0.00303	0.00314	0.00322
	RN	**(!CKN * !D * !SE * SI)**	0.00341	0.00352	0.00361
	RN	**(!CKN * !D * !SE * SI)**	-0.00002	0.00001	0.00003
	RN	**(!CKN * !D * !SE * SI)**	-0.00003	-0.00001	0.00002
	RN	**(!CKN * !D * !SE * SI)**	0.00303	0.00314	0.00322
	RN	**(!CKN * !D * !SE * !SI)**	0.00341	0.00352	0.00361
	RN	**(!CKN * !D * !SE * !SI)**	-0.00002	0.00001	0.00003
	RN	**(!CKN * !D * !SE * !SI)**	-0.00003	-0.00001	0.00002
	RN	**(!CKN * !D * !SE * !SI)**	0.00303	0.00314	0.00322

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFNRX3H7H	CKN	(RN * SE)	0.00362	0.00372	0.00382
	CKN	(RN * SE)	-0.00003	-0.00001	0.00000
	CKN	(RN * SE)	0.00002	0.00003	0.00005
	CKN	(RN * SE)	0.00317	0.00327	0.00336
	CKN	(RN * !SE)	0.00362	0.00373	0.00382
	CKN	(RN * !SE)	-0.00002	-0.00001	-0.00000
	CKN	(RN * !SE)	0.00002	0.00003	0.00006
	CKN	(RN * !SE)	0.00317	0.00327	0.00336

Passive power(pJ) for CKN rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNRX3H7H	0.00359	0.00362	0.00365
	-0.00002	-0.00001	-0.00001
	-0.00003	-0.00003	-0.00001
	0.00436	0.00439	0.00442

Passive power(pJ) for CKN falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNRX3H7H	0.00473	0.00483	0.00491
	0.00001	0.00001	0.00002
	0.00003	0.00003	0.00004
	0.00394	0.00404	0.00412

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNRX3H7H	0.00175	0.00177	0.00178
	0.00018	0.00018	0.00019
	-0.00015	-0.00015	-0.00014
	0.00302	0.00304	0.00306

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNRX3H7H	0.00309	0.00310	0.00312
	-0.00019	-0.00018	-0.00018
	0.00014	0.00015	0.00015
	0.00177	0.00178	0.00179

Passive power(pJ) for RN rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNRX3H7H	0.00123	0.00126	0.00129
	0.00000	0.00000	0.00000
	-0.00001	-0.00000	0.00000
	0.00190	0.00193	0.00197

Passive power(pJ) for RN falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNRX3H7H	0.00102	0.00105	0.00109
	0.00000	0.00000	0.00000
	0.00003	0.00004	0.00004
	0.00009	0.00012	0.00017

Passive power(pJ) for SE rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNRX3H7H	0.00280	0.00286	0.00293
	-0.00013	-0.00011	-0.00010
	0.00012	0.00012	0.00015
	0.00353	0.00359	0.00366

Passive power(pJ) for SE falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNRX3H7H	0.00326	0.00327	0.00331
	0.00010	0.00011	0.00013
	-0.00011	-0.00009	-0.00009
	0.00239	0.00241	0.00244

Passive power(pJ) for SI rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNRX3H7H	0.00151	0.00153	0.00156
	0.00016	0.00016	0.00017
	-0.00014	-0.00013	-0.00012
	0.00273	0.00276	0.00278

Passive power(pJ) for SI falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNRX3H7H	0.00323	0.00326	0.00329
	-0.00017	-0.00016	-0.00016
	0.00012	0.00013	0.00014
	0.00198	0.00200	0.00204

SDFFNSX0P5H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Negative Edge Trigger Scan D Flip-Flop with Async Set
Q = !SN ? 1 : falling (CKN) ? (SE& SI | !SE&D) : pre_Q
QN = !Q

Truth Table

INPUT					OUTPUT	
CKN	D	SE	SI	SN	Q	QN
F	0	0	x	1	0	1
F	x	1	0	1	0	1
F	x	1	1	1	1	0
F	1	0	x	1	1	0
x	x	x	x	0	1	0
x	x	x	x	1	IQ	IQN

Footprint

Cell Name	Area
SDFFNSX0P5H7H	9.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)	
	CKN	D	SE	SI	SN	Q	QN
SDFFNSX0P5H7H	0.00102	0.00085	0.00216	0.00093	0.00088	0.04294	0.04245

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
SDFFNSX0P5H7H	0.00000	0.08789	0.09529

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFNSX0P5H7H	CKN->Q (FR)	(SE * SN)	0.22632	0.40759	0.85923
	CKN->Q (FR)	(!SE * SN)	0.22632	0.40760	0.85923
	SN->Q (FR)	(CKN * D * SE * SI)	0.14630	0.33316	0.80490
	SN->Q (FR)	(CKN * D * SE * !SI)	0.15406	0.34390	0.82636
	SN->Q (FR)	(CKN * D * !SE * SI)	0.14630	0.33316	0.80490
	SN->Q (FR)	(CKN * D * !SE * !SI)	0.14630	0.33316	0.80490
	SN->Q (FR)	(CKN * !D * SE * SI)	0.14630	0.33316	0.80490
	SN->Q (FR)	(CKN * !D * SE * !SI)	0.15406	0.34390	0.82636
	SN->Q (FR)	(CKN * !D * !SE * SI)	0.15406	0.34391	0.82639
	SN->Q (FR)	(CKN * !D * !SE * !SI)	0.15406	0.34391	0.82639
	SN->Q (FR)	(!CKN * D * SE * SI)	0.16478	0.35583	0.84195
	SN->Q (FR)	(!CKN * D * SE * !SI)	0.16479	0.35583	0.84195
	SN->Q (FR)	(!CKN * D * !SE * SI)	0.16478	0.35584	0.84192
	SN->Q (FR)	(!CKN * D * !SE * !SI)	0.16478	0.35583	0.84193
	SN->Q (FR)	(!CKN * !D * SE * SI)	0.16478	0.35583	0.84187
	SN->Q (FR)	(!CKN * !D * SE * !SI)	0.16479	0.35584	0.84195
	SN->Q (FR)	(!CKN * !D * !SE * SI)	0.16479	0.35583	0.84195
	SN->Q (FR)	(!CKN * !D * !SE * !SI)	0.16479	0.35583	0.84195

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFNSX0P5H7H	CKN->Q (FF)	(SE * SN)	0.21361	0.36933	0.74705
	CKN->Q (FF)	(!SE * SN)	0.21366	0.36938	0.74710

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFNSX0P5H7H	CKN->QN (FR)	(SE * SN)	0.15200	0.35473	0.82091
	CKN->QN (FR)	(!SE * SN)	0.15204	0.35480	0.82141

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFNSX0P5H7H	CKN->QN (FF)	(SE * SN)	0.17003	0.34021	0.72321
	CKN->QN (FF)	(!SE * SN)	0.17003	0.34022	0.72320
	SN->QN (FF)	(CKN * D * SE * SI)	0.09241	0.26253	0.66807
	SN->QN (FF)	(CKN * D * SE * !SI)	0.09917	0.27296	0.68802
	SN->QN (FF)	(CKN * D * !SE * SI)	0.09241	0.26252	0.66787
	SN->QN (FF)	(CKN * D * !SE * !SI)	0.09241	0.26252	0.66787
	SN->QN (FF)	(CKN * !D * SE * SI)	0.09241	0.26253	0.66807
	SN->QN (FF)	(CKN * !D * SE * !SI)	0.09917	0.27294	0.68819
	SN->QN (FF)	(CKN * !D * !SE * SI)	0.09918	0.27295	0.68804
	SN->QN (FF)	(CKN * !D * !SE * !SI)	0.09918	0.27294	0.68804
	SN->QN (FF)	(!CKN * D * SE * SI)	0.10421	0.29251	0.73392
	SN->QN (FF)	(!CKN * D * SE * !SI)	0.10421	0.29250	0.73383
	SN->QN (FF)	(!CKN * D * !SE * SI)	0.10421	0.29251	0.73391
	SN->QN (FF)	(!CKN * D * !SE * !SI)	0.10421	0.29251	0.73391
	SN->QN (FF)	(!CKN * !D * SE * SI)	0.10421	0.29251	0.73393
	SN->QN (FF)	(!CKN * !D * SE * !SI)	0.10421	0.29250	0.73383
	SN->QN (FF)	(!CKN * !D * !SE * SI)	0.10421	0.29250	0.73393
	SN->QN (FF)	(!CKN * !D * !SE * !SI)	0.10421	0.29250	0.73393

Constraint Information

Min Pulse Width (ns) for CKN:

Cell Name	High	Low
SDFFNSX0P5H7H	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNSX0P5H7H	**hold**	**CKN (F)**	-0.16311	0.00200	0.19203
	setup	**CKN (F)**	-0.13764	0.07021	0.29576

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNSX0P5H7H	**hold**	**CKN (F)**	-0.31849	-0.13748	-0.02035
	setup	**CKN (F)**	0.06273	0.19862	0.40792

Constraints(ns) for SE rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNSX0P5H7H	**hold**	**CKN (F)**	-0.09846	0.02550	0.20634
	setup	**CKN (F)**	0.09300	0.20608	0.33698

Constraints(ns) for SE falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNSX0P5H7H	**hold**	**CKN (F)**	-0.18069	-0.01728	0.16887
	setup	**CKN (F)**	0.04869	0.17712	0.37947

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNSX0P5H7H	hold	CKN (F)	-0.16378	0.00205	0.19219
	setup	CKN (F)	-0.13753	0.06927	0.29245

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNSX0P5H7H	hold	CKN (F)	-0.33616	-0.15139	-0.03554
	setup	CKN (F)	0.08015	0.21516	0.42716

Constraints(ns) for SN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNSX0P5H7H	recovery	CKN (F)	-0.15812	0.02553	0.26098
	removal	CKN (F)	0.15371	0.24669	0.46320

Min Pulse Width (ns) for SN:

Cell Name	High	Low
SDFFNSX0P5H7H	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

SDFFNSX0P5H7H	**CKN**	**(SE * SN)**	0.00270	0.00276	0.00281
	CKN	**(SE * SN)**	-0.00003	-0.00003	-0.00002
	CKN	**(SE * SN)**	0.00000	0.00001	0.00003
	CKN	**(SE * SN)**	0.00227	0.00233	0.00238
	CKN	**(!SE * SN)**	0.00271	0.00276	0.00281
	CKN	**(!SE * SN)**	-0.00003	-0.00003	-0.00003
	CKN	**(!SE * SN)**	0.00001	0.00001	0.00002
	CKN	**(!SE * SN)**	0.00227	0.00233	0.00238
	SN	**(CKN * D * SE * SI)**	0.00158	0.00166	0.00172
	SN	**(CKN * D * SE * SI)**	-0.00005	-0.00005	0.00001
	SN	**(CKN * D * SE * SI)**	0.00003	0.00010	0.00294
	SN	**(CKN * D * SE * SI)**	-0.00141	0.00122	0.00134
	SN	**(CKN * D * SE * !SI)**	0.00169	0.00175	0.00180
	SN	**(CKN * D * SE * !SI)**	-0.00007	-0.00006	-0.00004
	SN	**(CKN * D * SE * !SI)**	0.00006	0.00006	0.00007
	SN	**(CKN * D * SE * !SI)**	0.00126	0.00133	0.00139
	SN	**(CKN * D * !SE * SI)**	0.00158	0.00166	0.00172
	SN	**(CKN * D * !SE * SI)**	-0.00005	-0.00005	-0.00004
	SN	**(CKN * D * !SE * SI)**	0.00004	0.00004	0.00006
	SN	**(CKN * D * !SE * SI)**	0.00120	0.00127	0.00134
	SN	**(CKN * D * !SE * !SI)**	0.00158	0.00166	0.00172
	SN	**(CKN * D * !SE * !SI)**	-0.00005	-0.00005	-0.00004
	SN	**(CKN * D * !SE * !SI)**	0.00004	0.00004	0.00006
	SN	**(CKN * D * !SE * !SI)**	0.00120	0.00127	0.00134
	SN	**(CKN * !D * SE * SI)**	0.00158	0.00166	0.00172
	SN	**(CKN * !D * SE * SI)**	-0.00005	-0.00005	0.00001
	SN	**(CKN * !D * SE * SI)**	0.00002	0.00010	0.00291
	SN	**(CKN * !D * SE * SI)**	-0.00137	0.00122	0.00134
	SN	**(CKN * !D * SE * !SI)**	0.00169	0.00175	0.00180
	SN	**(CKN * !D * SE * !SI)**	-0.00007	-0.00006	-0.00004
	SN	**(CKN * !D * SE * !SI)**	0.00005	0.00006	0.00007
	SN	**(CKN * !D * SE * !SI)**	0.00126	0.00133	0.00139
	SN	**(CKN * !D * !SE * SI)**	0.00169	0.00175	0.00180
	SN	**(CKN * !D * !SE * SI)**	-0.00007	-0.00006	-0.00003
	SN	**(CKN * !D * !SE * SI)**	0.00005	0.00006	0.00006
	SN	**(CKN * !D * !SE * SI)**	0.00127	0.00133	0.00139
	SN	**(CKN * !D * !SE * !SI)**	0.00169	0.00175	0.00180
	SN	**(CKN * !D * !SE * !SI)**	-0.00007	-0.00006	-0.00003
	SN	**(CKN * !D * !SE * !SI)**	0.00005	0.00006	0.00006
	SN	**(CKN * !D * !SE * !SI)**	0.00127	0.00133	0.00139
	SN	**(!CKN * D * SE * SI)**	0.00229	0.00237	0.00244
	SN	**(!CKN * D * SE * SI)**	-0.00003	-0.00002	-0.00002
	SN	**(!CKN * D * SE * SI)**	0.00000	0.00001	0.00001
	SN	**(!CKN * D * SE * SI)**	0.00196	0.00204	0.00211
	SN	**(!CKN * D * SE * !SI)**	0.00232	0.00241	0.00247
	SN	**(!CKN * D * SE * !SI)**	-0.00003	-0.00002	-0.00000
	SN	**(!CKN * D * SE * !SI)**	-0.00000	0.00001	0.00001
	SN	**(!CKN * D * SE * !SI)**	0.00199	0.00208	0.00214
	SN	**(!CKN * D * !SE * SI)**	0.00229	0.00237	0.00244
	SN	**(!CKN * D * !SE * SI)**	-0.00003	-0.00002	-0.00002
	SN	**(!CKN * D * !SE * SI)**	0.00001	0.00001	0.00004
	SN	**(!CKN * D * !SE * SI)**	0.00196	0.00204	0.00211
	SN	**(!CKN * D * !SE * !SI)**	0.00229	0.00237	0.00244
	SN	**(!CKN * D * !SE * !SI)**	-0.00003	-0.00002	-0.00002
	SN	**(!CKN * D * !SE * !SI)**	0.00001	0.00001	0.00004
	SN	**(!CKN * D * !SE * !SI)**	0.00196	0.00204	0.00211
	SN	**(!CKN * !D * SE * SI)**	0.00229	0.00237	0.00244
	SN	**(!CKN * !D * SE * SI)**	-0.00003	-0.00002	-0.00002
	SN	**(!CKN * !D * SE * SI)**	0.00000	0.00001	0.00001
	SN	**(!CKN * !D * SE * SI)**	0.00196	0.00204	0.00211
	SN	**(!CKN * !D * SE * !SI)**	0.00232	0.00241	0.00247
	SN	**(!CKN * !D * SE * !SI)**	-0.00003	-0.00002	-0.00000
	SN	**(!CKN * !D * SE * !SI)**	-0.00000	0.00001	0.00001
	SN	**(!CKN * !D * SE * !SI)**	0.00199	0.00208	0.00214
	SN	**(!CKN * !D * !SE * SI)**	0.00232	0.00241	0.00247
	SN	**(!CKN * !D * !SE * SI)**	-0.00003	-0.00002	-0.00002
	SN	**(!CKN * !D * !SE * SI)**	-0.00000	0.00001	0.00001
	SN	**(!CKN * !D * !SE * SI)**	0.00199	0.00208	0.00214
	SN	**(!CKN * !D * !SE * !SI)**	0.00232	0.00241	0.00247
	SN	**(!CKN * !D * !SE * !SI)**	-0.00003	-0.00002	-0.00002
	SN	**(!CKN * !D * !SE * !SI)**	-0.00000	0.00001	0.00001
	SN	**(!CKN * !D * !SE * !SI)**	0.00199	0.00208	0.00214

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFNSX0P5H7H	CKN	(SE * SN)	0.00249	0.00256	0.00262
	CKN	(SE * SN)	0.00003	0.00003	0.00003
	CKN	(SE * SN)	-0.00002	-0.00001	0.00000
	CKN	(SE * SN)	0.00221	0.00228	0.00234
	CKN	(!SE * SN)	0.00249	0.00256	0.00262
	CKN	(!SE * SN)	0.00003	0.00003	0.00003
	CKN	(!SE * SN)	-0.00002	-0.00001	-0.00001
	CKN	(!SE * SN)	0.00221	0.00228	0.00234

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFNSX0P5H7H	CKN	(SE * SN)	0.00249	0.00256	0.00262
	CKN	(SE * SN)	0.00002	0.00003	0.00004
	CKN	(SE * SN)	-0.00002	-0.00001	0.00000
	CKN	(SE * SN)	0.00221	0.00228	0.00234
	CKN	(!SE * SN)	0.00249	0.00256	0.00262
	CKN	(!SE * SN)	0.00002	0.00003	0.00004
	CKN	(!SE * SN)	-0.00002	-0.00001	0.00000
	CKN	(!SE * SN)	0.00221	0.00228	0.00235

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

	CKN	**(SE * SN)**	0.00270	0.00276	0.00281
	CKN	**(SE * SN)**	-0.00004	-0.00003	-0.00002
	CKN	**(SE * SN)**	0.00000	0.00001	0.00002
	CKN	**(SE * SN)**	0.00227	0.00233	0.00238
	CKN	**(!SE * SN)**	0.00270	0.00276	0.00281
	CKN	**(!SE * SN)**	-0.00004	-0.00003	-0.00002
	CKN	**(!SE * SN)**	0.00000	0.00001	0.00002
	CKN	**(!SE * SN)**	0.00226	0.00233	0.00238
	SN	**(CKN * D * SE * SI)**	0.00158	0.00166	0.00172
	SN	**(CKN * D * SE * SI)**	-0.00006	-0.00005	-0.00004
	SN	**(CKN * D * SE * SI)**	0.00003	0.00004	0.00005
	SN	**(CKN * D * SE * SI)**	0.00120	0.00127	0.00134
	SN	**(CKN * D * SE * !SI)**	0.00169	0.00175	0.00180
	SN	**(CKN * D * SE * !SI)**	-0.00007	-0.00006	-0.00004
	SN	**(CKN * D * SE * !SI)**	0.00004	0.00006	0.00007
	SN	**(CKN * D * SE * !SI)**	0.00127	0.00133	0.00139
	SN	**(CKN * D * !SE * SI)**	0.00158	0.00166	0.00172
	SN	**(CKN * D * !SE * SI)**	-0.00006	-0.00005	-0.00003
	SN	**(CKN * D * !SE * SI)**	0.00003	0.00004	0.00005
	SN	**(CKN * D * !SE * SI)**	0.00120	0.00127	0.00134
	SN	**(CKN * D * !SE * !SI)**	0.00158	0.00166	0.00172
	SN	**(CKN * D * !SE * !SI)**	-0.00006	-0.00005	-0.00003
	SN	**(CKN * D * !SE * !SI)**	0.00003	0.00004	0.00005
	SN	**(CKN * D * !SE * !SI)**	0.00120	0.00127	0.00134
	SN	**(CKN * !D * SE * SI)**	0.00158	0.00166	0.00172
	SN	**(CKN * !D * SE * SI)**	-0.00006	-0.00005	-0.00004
	SN	**(CKN * !D * SE * SI)**	0.00003	0.00004	0.00005
	SN	**(CKN * !D * SE * SI)**	0.00120	0.00127	0.00134
	SN	**(CKN * !D * SE * !SI)**	0.00169	0.00175	0.00180
	SN	**(CKN * !D * SE * !SI)**	-0.00007	-0.00006	-0.00005
	SN	**(CKN * !D * SE * !SI)**	0.00004	0.00006	0.00007
	SN	**(CKN * !D * SE * !SI)**	0.00127	0.00133	0.00139
	SN	**(CKN * !D * !SE * SI)**	0.00169	0.00175	0.00180
	SN	**(CKN * !D * !SE * SI)**	-0.00007	-0.00006	-0.00004
	SN	**(CKN * !D * !SE * SI)**	0.00004	0.00006	0.00008
	SN	**(CKN * !D * !SE * SI)**	0.00127	0.00133	0.00139
SDFFNSX0P5H7H	**SN**	**(CKN * !D * !SE * !SI)**	0.00169	0.00175	0.00180
	SN	**(CKN * !D * !SE * !SI)**	-0.00007	-0.00006	-0.00004
	SN	**(CKN * !D * !SE * !SI)**	0.00005	0.00006	0.00008
	SN	**(CKN * !D * !SE * !SI)**	0.00127	0.00133	0.00139
	SN	**(!CKN * D * SE * SI)**	0.00228	0.00237	0.00244
	SN	**(!CKN * D * SE * SI)**	-0.00003	-0.00002	-0.00000
	SN	**(!CKN * D * SE * SI)**	-0.00001	0.00001	0.00002
	SN	**(!CKN * D * SE * SI)**	0.00196	0.00204	0.00211
	SN	**(!CKN * D * SE * !SI)**	0.00231	0.00240	0.00247
	SN	**(!CKN * D * SE * !SI)**	-0.00003	-0.00002	-0.00001
	SN	**(!CKN * D * SE * !SI)**	-0.00000	0.00001	0.00002
	SN	**(!CKN * D * SE * !SI)**	0.00199	0.00207	0.00214
	SN	**(!CKN * D * !SE * SI)**	0.00228	0.00237	0.00244
	SN	**(!CKN * D * !SE * SI)**	-0.00005	-0.00002	-0.00000
	SN	**(!CKN * D * !SE * SI)**	-0.00003	0.00001	0.00002
	SN	**(!CKN * D * !SE * SI)**	0.00196	0.00204	0.00212
	SN	**(!CKN * D * !SE * !SI)**	0.00228	0.00237	0.00244
	SN	**(!CKN * D * !SE * !SI)**	-0.00005	-0.00002	-0.00000
	SN	**(!CKN * D * !SE * !SI)**	-0.00003	0.00001	0.00002
	SN	**(!CKN * D * !SE * !SI)**	0.00196	0.00204	0.00212
	SN	**(!CKN * !D * SE * SI)**	0.00228	0.00237	0.00244
	SN	**(!CKN * !D * SE * SI)**	-0.00003	-0.00002	-0.00000
	SN	**(!CKN * !D * SE * SI)**	-0.00001	0.00001	0.00002
	SN	**(!CKN * !D * SE * SI)**	0.00196	0.00204	0.00211
	SN	**(!CKN * !D * SE * !SI)**	0.00231	0.00240	0.00247
	SN	**(!CKN * !D * SE * !SI)**	-0.00003	-0.00002	-0.00001
	SN	**(!CKN * !D * SE * !SI)**	-0.00000	0.00001	0.00002
	SN	**(!CKN * !D * SE * !SI)**	0.00199	0.00207	0.00214
	SN	**(!CKN * !D * !SE * SI)**	0.00231	0.00240	0.00247
	SN	**(!CKN * !D * !SE * SI)**	-0.00003	-0.00002	-0.00002
	SN	**(!CKN * !D * !SE * SI)**	0.00001	0.00001	0.00002
	SN	**(!CKN * !D * !SE * SI)**	0.00199	0.00207	0.00214
	SN	**(!CKN * !D * !SE * !SI)**	0.00231	0.00240	0.00247
	SN	**(!CKN * !D * !SE * !SI)**	-0.00003	-0.00002	-0.00002
	SN	**(!CKN * !D * !SE * !SI)**	0.00001	0.00001	0.00002
	SN	**(!CKN * !D * !SE * !SI)**	0.00199	0.00207	0.00214

Passive power(pJ) for CKN rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNSX0P5H7H	0.00345	0.00348	0.00351
	-0.00002	-0.00002	-0.00001
	-0.00002	-0.00001	-0.00001
	0.00418	0.00421	0.00425

Passive power(pJ) for CKN falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNSX0P5H7H	0.00414	0.00419	0.00424
	0.00002	0.00003	0.00003
	0.00001	0.00001	0.00002
	0.00341	0.00347	0.00353

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNSX0P5H7H	0.00179	0.00180	0.00182
	0.00014	0.00015	0.00016
	-0.00013	-0.00013	-0.00012
	0.00294	0.00295	0.00296

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNSX0P5H7H	0.00270	0.00271	0.00274
	-0.00016	-0.00015	-0.00014
	0.00012	0.00013	0.00013
	0.00156	0.00157	0.00158

Passive power(pJ) for SE rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNSX0P5H7H	0.00248	0.00252	0.00258
	-0.00010	-0.00009	-0.00008
	0.00008	0.00008	0.00010
	0.00327	0.00331	0.00336

Passive power(pJ) for SE falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNSX0P5H7H	0.00317	0.00319	0.00323
	0.00008	0.00009	0.00010
	-0.00010	-0.00008	-0.00008
	0.00238	0.00240	0.00243

Passive power(pJ) for SI rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNSX0P5H7H	0.00155	0.00158	0.00160
	0.00015	0.00015	0.00015
	-0.00013	-0.00013	-0.00012
	0.00274	0.00277	0.00280

Passive power(pJ) for SI falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNSX0P5H7H	0.00292	0.00295	0.00297
	-0.00015	-0.00015	-0.00015
	0.00012	0.00013	0.00014
	0.00173	0.00176	0.00178

Passive power(pJ) for SN rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNSX0P5H7H	0.00056	0.00056	0.00057
	0.00005	0.00005	0.00006
	0.00000	0.00000	0.00000
	0.00132	0.00133	0.00134

Passive power(pJ) for SN falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNSX0P5H7H	0.00021	0.00022	0.00023
	0.00001	0.00001	0.00001
	0.00000	0.00000	0.00000
	-0.00029	-0.00028	-0.00027

SDFFNSX1H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Negative Edge Trigger Scan D Flip-Flop with Async Set
Q = !SN ? 1 : falling (CKN) ? (SE& SI | !SE&D) : pre_Q
QN = !Q

Truth Table

INPUT					OUTPUT	
CKN	D	SE	SI	SN	Q	QN
F	0	0	x	1	0	1
F	x	1	0	1	0	1
F	x	1	1	1	1	0
F	1	0	x	1	1	0
x	x	x	x	0	1	0
x	x	x	x	1	IQ	IQN

Footprint

Cell Name	Area
SDFFNSX1H7H	9.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)	
	CKN	D	SE	SI	SN	Q	QN
SDFFNSX1H7H	0.00102	0.00085	0.00216	0.00093	0.00090	0.05036	0.04981

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
SDFFNSX1H7H	0.00000	0.09689	0.10976

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFNSX1H7H	CKN->Q (FR)	(SE * SN)	0.22275	0.40394	0.85586
	CKN->Q (FR)	(!SE * SN)	0.22275	0.40395	0.85589
	SN->Q (FR)	(CKN * D * SE * SI)	0.14718	0.33429	0.80786
	SN->Q (FR)	(CKN * D * SE * !SI)	0.15524	0.34524	0.82945
	SN->Q (FR)	(CKN * D * !SE * SI)	0.14720	0.33428	0.80779
	SN->Q (FR)	(CKN * D * !SE * !SI)	0.14720	0.33429	0.80779
	SN->Q (FR)	(CKN * !D * SE * SI)	0.14721	0.33428	0.80786
	SN->Q (FR)	(CKN * !D * SE * !SI)	0.15531	0.34524	0.82944
	SN->Q (FR)	(CKN * !D * !SE * SI)	0.15535	0.34524	0.82945
	SN->Q (FR)	(CKN * !D * !SE * !SI)	0.15532	0.34523	0.82945
	SN->Q (FR)	(!CKN * D * SE * SI)	0.16654	0.35785	0.84587
	SN->Q (FR)	(!CKN * D * SE * !SI)	0.16645	0.35785	0.84587
	SN->Q (FR)	(!CKN * D * !SE * SI)	0.16653	0.35785	0.84587
	SN->Q (FR)	(!CKN * D * !SE * !SI)	0.16647	0.35785	0.84587
	SN->Q (FR)	(!CKN * !D * SE * SI)	0.16655	0.35785	0.84587
	SN->Q (FR)	(!CKN * !D * SE * !SI)	0.16656	0.35785	0.84587
	SN->Q (FR)	(!CKN * !D * !SE * SI)	0.16648	0.35785	0.84587
	SN->Q (FR)	(!CKN * !D * !SE * !SI)	0.16648	0.35785	0.84587

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFNSX1H7H	CKN->Q (FF)	(SE * SN)	0.20971	0.36714	0.74942
	CKN->Q (FF)	(!SE * SN)	0.20976	0.36718	0.74942

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFNSX1H7H	CKN->QN (FR)	(SE * SN)	0.14852	0.35151	0.81777
	CKN->QN (FR)	(!SE * SN)	0.14856	0.35158	0.81782

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFNSX1H7H	CKN->QN (FF)	(SE * SN)	0.16798	0.34028	0.72759
	CKN->QN (FF)	(!SE * SN)	0.16797	0.34030	0.72763
	SN->QN (FF)	(CKN * D * SE * SI)	0.09378	0.26742	0.68000
	SN->QN (FF)	(CKN * D * SE * !SI)	0.10082	0.27804	0.70010
	SN->QN (FF)	(CKN * D * !SE * SI)	0.09380	0.26742	0.67974
	SN->QN (FF)	(CKN * D * !SE * !SI)	0.09380	0.26742	0.67979
	SN->QN (FF)	(CKN * !D * SE * SI)	0.09381	0.26742	0.67991
	SN->QN (FF)	(CKN * !D * SE * !SI)	0.10088	0.27804	0.70011
	SN->QN (FF)	(CKN * !D * !SE * SI)	0.10092	0.27804	0.70012
	SN->QN (FF)	(CKN * !D * !SE * !SI)	0.10089	0.27803	0.70011
	SN->QN (FF)	(!CKN * D * SE * SI)	0.10636	0.29873	0.74716
	SN->QN (FF)	(!CKN * D * SE * !SI)	0.10627	0.29874	0.74723
	SN->QN (FF)	(!CKN * D * !SE * SI)	0.10635	0.29874	0.74716
	SN->QN (FF)	(!CKN * D * !SE * !SI)	0.10628	0.29873	0.74716
	SN->QN (FF)	(!CKN * !D * SE * SI)	0.10637	0.29874	0.74716
	SN->QN (FF)	(!CKN * !D * SE * !SI)	0.10638	0.29875	0.74727
	SN->QN (FF)	(!CKN * !D * !SE * SI)	0.10629	0.29874	0.74717
	SN->QN (FF)	(!CKN * !D * !SE * !SI)	0.10630	0.29875	0.74726

Constraint Information

Min Pulse Width (ns) for CKN:

Cell Name	High	Low
SDFFNSX1H7H	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNSX1H7H	**hold**	**CKN (F)**	-0.16273	0.00334	0.19300
	setup	**CKN (F)**	-0.13708	0.06968	0.29404

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNSX1H7H	**hold**	**CKN (F)**	-0.31825	-0.13714	-0.02209
	setup	**CKN (F)**	0.06428	0.19863	0.41021

Constraints(ns) for SE rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNSX1H7H	**hold**	**CKN (F)**	-0.09752	0.02641	0.20592
	setup	**CKN (F)**	0.09370	0.20668	0.33710

Constraints(ns) for SE falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNSX1H7H	**hold**	**CKN (F)**	-0.17960	-0.01653	0.16950
	setup	**CKN (F)**	0.04913	0.17808	0.38105

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNSX1H7H	hold	CKN (F)	-0.16103	0.00320	0.19300
	setup	CKN (F)	-0.13760	0.06956	0.29398

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNSX1H7H	hold	CKN (F)	-0.33360	-0.15097	-0.03555
	setup	CKN (F)	0.08288	0.21607	0.43046

Constraints(ns) for SN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNSX1H7H	recovery	CKN (F)	-0.15925	0.02416	0.25724
	removal	CKN (F)	0.15279	0.24722	0.46331

Min Pulse Width (ns) for SN:

Cell Name	High	Low
SDFFNSX1H7H	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

SDFFNSX1H7H	CKN	(SE * SN)	0.00277	0.00283	0.00289
	CKN	(SE * SN)	-0.00003	-0.00003	-0.00002
	CKN	(SE * SN)	0.00001	0.00001	0.00002
	CKN	(SE * SN)	0.00234	0.00240	0.00246
	CKN	(!SE * SN)	0.00277	0.00283	0.00289
	CKN	(!SE * SN)	-0.00003	-0.00003	-0.00003
	CKN	(!SE * SN)	0.00001	0.00001	0.00003
	CKN	(!SE * SN)	0.00234	0.00240	0.00246
	SN	(CKN * D * SE * SI)	0.00165	0.00173	0.00180
	SN	(CKN * D * SE * SI)	-0.00006	-0.00005	-0.00004
	SN	(CKN * D * SE * SI)	0.00002	0.00004	0.00006
	SN	(CKN * D * SE * SI)	0.00126	0.00134	0.00140
	SN	(CKN * D * SE * !SI)	0.00175	0.00182	0.00187
	SN	(CKN * D * SE * !SI)	-0.00007	-0.00006	-0.00003
	SN	(CKN * D * SE * !SI)	0.00005	0.00006	0.00007
	SN	(CKN * D * SE * !SI)	0.00133	0.00139	0.00146
	SN	(CKN * D * !SE * SI)	0.00165	0.00173	0.00180
	SN	(CKN * D * !SE * SI)	-0.00007	-0.00005	-0.00004
	SN	(CKN * D * !SE * SI)	0.00002	0.00004	0.00006
	SN	(CKN * D * !SE * SI)	0.00126	0.00134	0.00140
	SN	(CKN * D * !SE * !SI)	0.00165	0.00173	0.00180
	SN	(CKN * D * !SE * !SI)	-0.00007	-0.00005	-0.00004
	SN	(CKN * D * !SE * !SI)	0.00002	0.00004	0.00006
	SN	(CKN * D * !SE * !SI)	0.00126	0.00134	0.00140
	SN	(CKN * !D * SE * SI)	0.00165	0.00173	0.00180
	SN	(CKN * !D * SE * SI)	-0.00006	-0.00005	-0.00004
	SN	(CKN * !D * SE * SI)	0.00002	0.00004	0.00006
	SN	(CKN * !D * SE * SI)	0.00126	0.00134	0.00140
	SN	(CKN * !D * SE * !SI)	0.00176	0.00182	0.00187
	SN	(CKN * !D * SE * !SI)	-0.00007	-0.00006	-0.00003
	SN	(CKN * !D * SE * !SI)	0.00005	0.00006	0.00007
	SN	(CKN * !D * SE * !SI)	0.00132	0.00139	0.00146
	SN	(CKN * !D * !SE * SI)	0.00176	0.00182	0.00187
	SN	(CKN * !D * !SE * SI)	-0.00006	-0.00006	-0.00003
	SN	(CKN * !D * !SE * SI)	0.00004	0.00006	0.00007
	SN	(CKN * !D * !SE * SI)	0.00133	0.00139	0.00145
	SN	(CKN * !D * !SE * !SI)	0.00176	0.00182	0.00187
	SN	(CKN * !D * !SE * !SI)	-0.00006	-0.00006	-0.00004
	SN	(CKN * !D * !SE * !SI)	0.00004	0.00006	0.00007
	SN	(CKN * !D * !SE * !SI)	0.00133	0.00139	0.00146
	SN	(!CKN * D * SE * SI)	0.00237	0.00246	0.00254
	SN	(!CKN * D * SE * SI)	-0.00003	-0.00002	-0.00000
	SN	(!CKN * D * SE * SI)	-0.00000	0.00001	0.00003
	SN	(!CKN * D * SE * SI)	0.00203	0.00212	0.00219
	SN	(!CKN * D * SE * !SI)	0.00240	0.00250	0.00257
	SN	(!CKN * D * SE * !SI)	-0.00003	-0.00002	-0.00001
	SN	(!CKN * D * SE * !SI)	0.00001	0.00001	0.00003
	SN	(!CKN * D * SE * !SI)	0.00206	0.00215	0.00223
	SN	(!CKN * D * !SE * SI)	0.00237	0.00246	0.00254
	SN	(!CKN * D * !SE * SI)	-0.00003	-0.00002	-0.00000
	SN	(!CKN * D * !SE * SI)	-0.00000	0.00001	0.00003
	SN	(!CKN * D * !SE * SI)	0.00203	0.00212	0.00219
	SN	(!CKN * D * !SE * !SI)	0.00237	0.00246	0.00254
	SN	(!CKN * D * !SE * !SI)	-0.00003	-0.00002	-0.00000
	SN	(!CKN * D * !SE * !SI)	-0.00000	0.00001	0.00003
	SN	(!CKN * D * !SE * !SI)	0.00203	0.00212	0.00219
	SN	(!CKN * !D * SE * SI)	0.00237	0.00246	0.00254
	SN	(!CKN * !D * SE * SI)	-0.00003	-0.00002	-0.00000
	SN	(!CKN * !D * SE * SI)	-0.00000	0.00001	0.00003
	SN	(!CKN * !D * SE * SI)	0.00203	0.00212	0.00219
	SN	(!CKN * !D * SE * !SI)	0.00240	0.00250	0.00257
	SN	(!CKN * !D * SE * !SI)	-0.00003	-0.00002	-0.00001
	SN	(!CKN * !D * SE * !SI)	0.00001	0.00001	0.00003
	SN	(!CKN * !D * SE * !SI)	0.00206	0.00215	0.00223
	SN	(!CKN * !D * !SE * SI)	0.00240	0.00250	0.00257
	SN	(!CKN * !D * !SE * SI)	-0.00003	-0.00002	-0.00000
	SN	(!CKN * !D * !SE * SI)	0.00001	0.00001	0.00003
	SN	(!CKN * !D * !SE * SI)	0.00206	0.00215	0.00223
	SN	(!CKN * !D * !SE * !SI)	0.00240	0.00250	0.00257
	SN	(!CKN * !D * !SE * !SI)	-0.00003	-0.00002	-0.00000
	SN	(!CKN * !D * !SE * !SI)	0.00001	0.00001	0.00003
	SN	(!CKN * !D * !SE * !SI)	0.00206	0.00215	0.00223

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFNSX1H7H	CKN	(SE * SN)	0.00257	0.00264	0.00271
	CKN	(SE * SN)	0.00003	0.00003	0.00003
	CKN	(SE * SN)	-0.00002	-0.00001	-0.00001
	CKN	(SE * SN)	0.00229	0.00236	0.00243
	CKN	(!SE * SN)	0.00257	0.00264	0.00271
	CKN	(!SE * SN)	0.00003	0.00003	0.00003
	CKN	(!SE * SN)	-0.00002	-0.00001	-0.00001
	CKN	(!SE * SN)	0.00229	0.00236	0.00243

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFNSX1H7H	CKN	(SE * SN)	0.00257	0.00264	0.00271
	CKN	(SE * SN)	0.00003	0.00003	0.00003
	CKN	(SE * SN)	-0.00002	-0.00001	0.00000
	CKN	(SE * SN)	0.00229	0.00236	0.00243
	CKN	(!SE * SN)	0.00257	0.00264	0.00271
	CKN	(!SE * SN)	0.00003	0.00003	0.00004
	CKN	(!SE * SN)	-0.00002	-0.00001	0.00000
	CKN	(!SE * SN)	0.00229	0.00236	0.00243

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

SDFFNSX1H7H	CKN	(SE * SN)	0.00277	0.00283	0.00288
	CKN	(SE * SN)	-0.00003	-0.00003	-0.00003
	CKN	(SE * SN)	0.00000	0.00001	0.00002
	CKN	(SE * SN)	0.00234	0.00240	0.00245
	CKN	(!SE * SN)	0.00277	0.00283	0.00288
	CKN	(!SE * SN)	-0.00004	-0.00003	-0.00003
	CKN	(!SE * SN)	0.00000	0.00001	0.00002
	CKN	(!SE * SN)	0.00234	0.00240	0.00245
	SN	(CKN * D * SE * SI)	0.00165	0.00173	0.00179
	SN	(CKN * D * SE * SI)	-0.00006	-0.00005	-0.00003
	SN	(CKN * D * SE * SI)	0.00003	0.00004	0.00005
	SN	(CKN * D * SE * SI)	0.00126	0.00134	0.00140
	SN	(CKN * D * SE * !SI)	0.00176	0.00182	0.00187
	SN	(CKN * D * SE * !SI)	-0.00007	-0.00006	-0.00004
	SN	(CKN * D * SE * !SI)	0.00005	0.00006	0.00007
	SN	(CKN * D * SE * !SI)	0.00133	0.00139	0.00145
	SN	(CKN * D * !SE * SI)	0.00165	0.00173	0.00180
	SN	(CKN * D * !SE * SI)	-0.00006	-0.00005	-0.00004
	SN	(CKN * D * !SE * SI)	0.00001	0.00004	0.00005
	SN	(CKN * D * !SE * SI)	0.00126	0.00134	0.00140
	SN	(CKN * D * !SE * !SI)	0.00165	0.00173	0.00180
	SN	(CKN * D * !SE * !SI)	-0.00006	-0.00005	-0.00004
	SN	(CKN * D * !SE * !SI)	0.00001	0.00004	0.00005
	SN	(CKN * D * !SE * !SI)	0.00126	0.00134	0.00140
	SN	(CKN * !D * SE * SI)	0.00165	0.00173	0.00179
	SN	(CKN * !D * SE * SI)	-0.00005	-0.00005	-0.00003
	SN	(CKN * !D * SE * SI)	0.00003	0.00004	0.00005
	SN	(CKN * !D * SE * SI)	0.00126	0.00134	0.00140
	SN	(CKN * !D * SE * !SI)	0.00176	0.00182	0.00187
	SN	(CKN * !D * SE * !SI)	-0.00007	-0.00006	-0.00004
	SN	(CKN * !D * SE * !SI)	0.00005	0.00006	0.00007
	SN	(CKN * !D * SE * !SI)	0.00133	0.00139	0.00146
	SN	(CKN * !D * !SE * SI)	0.00176	0.00182	0.00187
	SN	(CKN * !D * !SE * SI)	-0.00007	-0.00006	-0.00004
	SN	(CKN * !D * !SE * SI)	0.00005	0.00006	0.00007
	SN	(CKN * !D * !SE * SI)	0.00133	0.00139	0.00145
	SN	(CKN * !D * !SE * !SI)	0.00176	0.00182	0.00187
	SN	(CKN * !D * !SE * !SI)	-0.00007	-0.00006	-0.00004
	SN	(CKN * !D * !SE * !SI)	0.00005	0.00006	0.00007
	SN	(CKN * !D * !SE * !SI)	0.00133	0.00139	0.00145
	SN	(!CKN * D * SE * SI)	0.00237	0.00246	0.00254
	SN	(!CKN * D * SE * SI)	-0.00003	-0.00002	-0.00001
	SN	(!CKN * D * SE * SI)	-0.00000	0.00001	0.00003
	SN	(!CKN * D * SE * SI)	0.00203	0.00212	0.00219
	SN	(!CKN * D * SE * !SI)	0.00240	0.00250	0.00257
	SN	(!CKN * D * SE * !SI)	-0.00004	-0.00002	-0.00001
	SN	(!CKN * D * SE * !SI)	-0.00000	0.00001	0.00002
	SN	(!CKN * D * SE * !SI)	0.00206	0.00216	0.00223
	SN	(!CKN * D * !SE * SI)	0.00237	0.00246	0.00254
	SN	(!CKN * D * !SE * SI)	-0.00003	-0.00002	-0.00001
	SN	(!CKN * D * !SE * SI)	-0.00000	0.00001	0.00003
	SN	(!CKN * D * !SE * SI)	0.00203	0.00212	0.00219
	SN	(!CKN * D * !SE * !SI)	0.00237	0.00246	0.00254
	SN	(!CKN * D * !SE * !SI)	-0.00003	-0.00002	-0.00001
	SN	(!CKN * D * !SE * !SI)	-0.00000	0.00001	0.00003
	SN	(!CKN * D * !SE * !SI)	0.00203	0.00212	0.00219
	SN	(!CKN * !D * SE * SI)	0.00237	0.00246	0.00254
	SN	(!CKN * !D * SE * SI)	-0.00003	-0.00002	-0.00001
	SN	(!CKN * !D * SE * SI)	-0.00000	0.00001	0.00003
	SN	(!CKN * !D * SE * SI)	0.00203	0.00212	0.00219
	SN	(!CKN * !D * SE * !SI)	0.00240	0.00250	0.00257
	SN	(!CKN * !D * SE * !SI)	-0.00004	-0.00002	-0.00001
	SN	(!CKN * !D * SE * !SI)	-0.00000	0.00001	0.00002
	SN	(!CKN * !D * SE * !SI)	0.00206	0.00215	0.00223
	SN	(!CKN * !D * !SE * SI)	0.00240	0.00250	0.00257
	SN	(!CKN * !D * !SE * SI)	-0.00004	-0.00002	-0.00001
	SN	(!CKN * !D * !SE * SI)	-0.00000	0.00001	0.00002
	SN	(!CKN * !D * !SE * SI)	0.00206	0.00215	0.00223
	SN	(!CKN * !D * !SE * !SI)	0.00240	0.00250	0.00257
	SN	(!CKN * !D * !SE * !SI)	-0.00004	-0.00002	-0.00001
	SN	(!CKN * !D * !SE * !SI)	-0.00000	0.00001	0.00002
	SN	(!CKN * !D * !SE * !SI)	0.00206	0.00215	0.00223

Passive power(pJ) for CKN rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNSX1H7H	0.00348	0.00351	0.00355
	-0.00002	-0.00002	-0.00001
	-0.00002	-0.00002	-0.00002
	0.00421	0.00424	0.00428

Passive power(pJ) for CKN falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNSX1H7H	0.00420	0.00425	0.00432
	0.00001	0.00002	0.00002
	0.00002	0.00002	0.00002
	0.00346	0.00351	0.00358

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNSX1H7H	0.00183	0.00184	0.00185
	0.00015	0.00015	0.00016
	-0.00012	-0.00012	-0.00012
	0.00297	0.00298	0.00300

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNSX1H7H	0.00271	0.00273	0.00275
	-0.00016	-0.00015	-0.00015
	0.00012	0.00012	0.00012
	0.00159	0.00160	0.00162

Passive power(pJ) for SE rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNSX1H7H	0.00250	0.00253	0.00258
	-0.00011	-0.00010	-0.00009
	0.00007	0.00008	0.00009
	0.00330	0.00333	0.00340

Passive power(pJ) for SE falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNSX1H7H	0.00313	0.00316	0.00321
	0.00013	0.00015	0.00016
	-0.00009	-0.00008	-0.00007
	0.00248	0.00251	0.00255

Passive power(pJ) for SI rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNSX1H7H	0.00158	0.00160	0.00163
	0.00014	0.00015	0.00015
	-0.00012	-0.00012	-0.00012
	0.00276	0.00279	0.00282

Passive power(pJ) for SI falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNSX1H7H	0.00293	0.00296	0.00299
	-0.00015	-0.00015	-0.00014
	0.00012	0.00012	0.00013
	0.00176	0.00178	0.00181

Passive power(pJ) for SN rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNSX1H7H	0.00057	0.00058	0.00058
	0.00006	0.00006	0.00006
	0.00000	0.00000	0.00000
	0.00137	0.00138	0.00139

Passive power(pJ) for SN falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNSX1H7H	0.00021	0.00022	0.00023
	0.00001	0.00001	0.00001
	0.00000	0.00000	0.00000
	-0.00030	-0.00029	-0.00027

SDFFNSX2H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Negative Edge Trigger Scan D Flip-Flop with Async Set
Q = !SN ? 1 : falling (CKN) ? (SE& SI | !SE&D) : pre_Q
QN = !Q

Truth Table

INPUT					OUTPUT	
CKN	D	SE	SI	SN	Q	QN
F	0	0	x	1	0	1
F	x	1	0	1	0	1
F	x	1	1	1	1	0
F	1	0	x	1	1	0
x	x	x	x	0	1	0
x	x	x	x	1	IQ	IQN

Footprint

Cell Name	Area
SDFFNSX2H7H	9.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)	
	CKN	D	SE	SI	SN	Q	QN
SDFFNSX2H7H	0.00102	0.00085	0.00216	0.00093	0.00091	0.05731	0.05671

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
SDFFNSX2H7H	0.00000	0.11097	0.13248

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFNSX2H7H	CKN->Q (FR)	(SE * SN)	0.21668	0.39797	0.85036
	CKN->Q (FR)	(!SE * SN)	0.21668	0.39799	0.85058
	SN->Q (FR)	(CKN * D * SE * SI)	0.14947	0.33660	0.81193
	SN->Q (FR)	(CKN * D * SE * !SI)	0.15793	0.34798	0.83414
	SN->Q (FR)	(CKN * D * !SE * SI)	0.14940	0.33660	0.81193
	SN->Q (FR)	(CKN * D * !SE * !SI)	0.14940	0.33660	0.81193
	SN->Q (FR)	(CKN * !D * SE * SI)	0.14947	0.33660	0.81193
	SN->Q (FR)	(CKN * !D * SE * !SI)	0.15793	0.34798	0.83414
	SN->Q (FR)	(CKN * !D * !SE * SI)	0.15793	0.34798	0.83415
	SN->Q (FR)	(CKN * !D * !SE * !SI)	0.15793	0.34797	0.83415
	SN->Q (FR)	(!CKN * D * SE * SI)	0.17014	0.36181	0.85198
	SN->Q (FR)	(!CKN * D * SE * !SI)	0.17025	0.36183	0.85196
	SN->Q (FR)	(!CKN * D * !SE * SI)	0.17014	0.36181	0.85182
	SN->Q (FR)	(!CKN * D * !SE * !SI)	0.17014	0.36181	0.85182
	SN->Q (FR)	(!CKN * !D * SE * SI)	0.17014	0.36181	0.85198
	SN->Q (FR)	(!CKN * !D * SE * !SI)	0.17024	0.36183	0.85196
	SN->Q (FR)	(!CKN * !D * !SE * SI)	0.17017	0.36182	0.85196
	SN->Q (FR)	(!CKN * !D * !SE * !SI)	0.17017	0.36182	0.85196

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFNSX2H7H	CKN->Q (FF)	(SE * SN)	0.20712	0.36533	0.75094
	CKN->Q (FF)	(!SE * SN)	0.20713	0.36540	0.75101

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFNSX2H7H	CKN->QN (FR)	(SE * SN)	0.14829	0.35184	0.82013
	CKN->QN (FR)	(!SE * SN)	0.14828	0.35189	0.82007

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFNSX2H7H	CKN->QN (FF)	(SE * SN)	0.16360	0.33631	0.72564
	CKN->QN (FF)	(!SE * SN)	0.16361	0.33634	0.72585
	SN->QN (FF)	(CKN * D * SE * SI)	0.09600	0.27196	0.68909
	SN->QN (FF)	(CKN * D * SE * !SI)	0.10336	0.28300	0.70977
	SN->QN (FF)	(CKN * D * !SE * SI)	0.09592	0.27196	0.68917
	SN->QN (FF)	(CKN * D * !SE * !SI)	0.09592	0.27196	0.68917
	SN->QN (FF)	(CKN * !D * SE * SI)	0.09600	0.27197	0.68909
	SN->QN (FF)	(CKN * !D * SE * !SI)	0.10336	0.28299	0.70994
	SN->QN (FF)	(CKN * !D * !SE * SI)	0.10337	0.28300	0.70982
	SN->QN (FF)	(CKN * !D * !SE * !SI)	0.10337	0.28299	0.70981
	SN->QN (FF)	(!CKN * D * SE * SI)	0.10949	0.30526	0.75882
	SN->QN (FF)	(!CKN * D * SE * !SI)	0.10958	0.30527	0.75882
	SN->QN (FF)	(!CKN * D * !SE * SI)	0.10948	0.30526	0.75882
	SN->QN (FF)	(!CKN * D * !SE * !SI)	0.10948	0.30527	0.75882
	SN->QN (FF)	(!CKN * !D * SE * SI)	0.10949	0.30526	0.75882
	SN->QN (FF)	(!CKN * !D * SE * !SI)	0.10959	0.30527	0.75882
	SN->QN (FF)	(!CKN * !D * !SE * SI)	0.10951	0.30527	0.75882
	SN->QN (FF)	(!CKN * !D * !SE * !SI)	0.10951	0.30527	0.75882

Constraint Information

Min Pulse Width (ns) for CKN:

Cell Name	High	Low
SDFFNSX2H7H	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNSX2H7H	**hold**	**CKN (F)**	-0.16334	0.00226	0.19151
	setup	**CKN (F)**	-0.13753	0.07036	0.29449

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNSX2H7H	**hold**	**CKN (F)**	-0.31917	-0.13742	-0.01983
	setup	**CKN (F)**	0.06484	0.19995	0.40974

Constraints(ns) for SE rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNSX2H7H	**hold**	**CKN (F)**	-0.09715	0.02598	0.20610
	setup	**CKN (F)**	0.09083	0.20724	0.34076

Constraints(ns) for SE falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNSX2H7H	**hold**	**CKN (F)**	-0.18182	-0.01704	0.16827
	setup	**CKN (F)**	0.04714	0.17822	0.38288

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNSX2H7H	hold	CKN (F)	-0.16148	0.00234	0.19073
	setup	CKN (F)	-0.13747	0.07035	0.29668

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNSX2H7H	hold	CKN (F)	-0.33390	-0.15090	-0.03573
	setup	CKN (F)	0.07964	0.21690	0.43022

Constraints(ns) for SN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNSX2H7H	recovery	CKN (F)	-0.16127	0.02246	0.25520
	removal	CKN (F)	0.15285	0.24806	0.46575

Min Pulse Width (ns) for SN:

Cell Name	High	Low
SDFFNSX2H7H	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

SDFFNSX2H7H	**CKN**	**(SE * SN)**	0.00286	0.00293	0.00299
	CKN	**(SE * SN)**	-0.00003	-0.00003	-0.00003
	CKN	**(SE * SN)**	0.00001	0.00001	0.00002
	CKN	**(SE * SN)**	0.00244	0.00250	0.00257
	CKN	**(!SE * SN)**	0.00286	0.00293	0.00299
	CKN	**(!SE * SN)**	-0.00003	-0.00003	-0.00002
	CKN	**(!SE * SN)**	0.00000	0.00001	0.00002
	CKN	**(!SE * SN)**	0.00244	0.00250	0.00257
	SN	**(CKN * D * SE * SI)**	0.00172	0.00180	0.00187
	SN	**(CKN * D * SE * SI)**	-0.00005	-0.00005	-0.00004
	SN	**(CKN * D * SE * SI)**	0.00002	0.00004	0.00006
	SN	**(CKN * D * SE * SI)**	0.00132	0.00140	0.00148
	SN	**(CKN * D * SE * !SI)**	0.00183	0.00189	0.00195
	SN	**(CKN * D * SE * !SI)**	-0.00006	-0.00006	-0.00004
	SN	**(CKN * D * SE * !SI)**	0.00006	0.00006	0.00007
	SN	**(CKN * D * SE * !SI)**	0.00139	0.00146	0.00153
	SN	**(CKN * D * !SE * SI)**	0.00172	0.00180	0.00188
	SN	**(CKN * D * !SE * SI)**	-0.00007	-0.00005	-0.00003
	SN	**(CKN * D * !SE * SI)**	0.00003	0.00004	0.00006
	SN	**(CKN * D * !SE * SI)**	0.00132	0.00140	0.00148
	SN	**(CKN * D * !SE * !SI)**	0.00172	0.00180	0.00188
	SN	**(CKN * D * !SE * !SI)**	-0.00007	-0.00005	-0.00003
	SN	**(CKN * D * !SE * !SI)**	0.00003	0.00004	0.00006
	SN	**(CKN * D * !SE * !SI)**	0.00132	0.00140	0.00148
	SN	**(CKN * !D * SE * SI)**	0.00172	0.00180	0.00187
	SN	**(CKN * !D * SE * SI)**	-0.00005	-0.00005	-0.00004
	SN	**(CKN * !D * SE * SI)**	0.00002	0.00004	0.00006
	SN	**(CKN * !D * SE * SI)**	0.00132	0.00140	0.00148
	SN	**(CKN * !D * SE * !SI)**	0.00183	0.00189	0.00195
	SN	**(CKN * !D * SE * !SI)**	-0.00006	-0.00006	-0.00004
	SN	**(CKN * !D * SE * !SI)**	0.00006	0.00006	0.00007
	SN	**(CKN * !D * SE * !SI)**	0.00139	0.00146	0.00153
	SN	**(CKN * !D * !SE * SI)**	0.00183	0.00189	0.00196
	SN	**(CKN * !D * !SE * SI)**	-0.00007	-0.00006	-0.00004
	SN	**(CKN * !D * !SE * SI)**	0.00004	0.00006	0.00007
	SN	**(CKN * !D * !SE * SI)**	0.00139	0.00146	0.00153
	SN	**(CKN * !D * !SE * !SI)**	0.00183	0.00189	0.00195
	SN	**(CKN * !D * !SE * !SI)**	-0.00008	-0.00006	-0.00005
	SN	**(CKN * !D * !SE * !SI)**	0.00004	0.00006	0.00007
	SN	**(CKN * !D * !SE * !SI)**	0.00139	0.00146	0.00153
	SN	**(!CKN * D * SE * SI)**	0.00247	0.00257	0.00265
	SN	**(!CKN * D * SE * SI)**	-0.00004	-0.00003	-0.00001
	SN	**(!CKN * D * SE * SI)**	0.00002	0.00002	0.00002
	SN	**(!CKN * D * SE * SI)**	0.00212	0.00221	0.00229
	SN	**(!CKN * D * SE * !SI)**	0.00251	0.00260	0.00268
	SN	**(!CKN * D * SE * !SI)**	-0.00005	-0.00003	-0.00003
	SN	**(!CKN * D * SE * !SI)**	0.00001	0.00002	0.00002
	SN	**(!CKN * D * SE * !SI)**	0.00215	0.00225	0.00232
	SN	**(!CKN * D * !SE * SI)**	0.00247	0.00257	0.00265
	SN	**(!CKN * D * !SE * SI)**	-0.00004	-0.00003	-0.00002
	SN	**(!CKN * D * !SE * SI)**	0.00002	0.00002	0.00010
	SN	**(!CKN * D * !SE * SI)**	0.00212	0.00221	0.00229
	SN	**(!CKN * D * !SE * !SI)**	0.00247	0.00257	0.00265
	SN	**(!CKN * D * !SE * !SI)**	-0.00004	-0.00003	-0.00002
	SN	**(!CKN * D * !SE * !SI)**	0.00002	0.00002	0.00010
	SN	**(!CKN * D * !SE * !SI)**	0.00212	0.00221	0.00229
	SN	**(!CKN * !D * SE * SI)**	0.00247	0.00257	0.00265
	SN	**(!CKN * !D * SE * SI)**	-0.00004	-0.00003	-0.00001
	SN	**(!CKN * !D * SE * SI)**	0.00002	0.00002	0.00002
	SN	**(!CKN * !D * SE * SI)**	0.00212	0.00221	0.00229
	SN	**(!CKN * !D * SE * !SI)**	0.00251	0.00260	0.00268
	SN	**(!CKN * !D * SE * !SI)**	-0.00005	-0.00003	-0.00003
	SN	**(!CKN * !D * SE * !SI)**	0.00001	0.00002	0.00002
	SN	**(!CKN * !D * SE * !SI)**	0.00215	0.00225	0.00232
	SN	**(!CKN * !D * !SE * SI)**	0.00251	0.00260	0.00268
	SN	**(!CKN * !D * !SE * SI)**	-0.00005	-0.00003	-0.00001
	SN	**(!CKN * !D * !SE * SI)**	0.00001	0.00002	0.00002
	SN	**(!CKN * !D * !SE * SI)**	0.00215	0.00225	0.00232
	SN	**(!CKN * !D * !SE * !SI)**	0.00251	0.00260	0.00268
	SN	**(!CKN * !D * !SE * !SI)**	-0.00005	-0.00003	-0.00001
	SN	**(!CKN * !D * !SE * !SI)**	0.00001	0.00002	0.00002
	SN	**(!CKN * !D * !SE * !SI)**	0.00215	0.00225	0.00232

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFNSX2H7H	CKN	(SE * SN)	0.00267	0.00275	0.00282
	CKN	(SE * SN)	0.00003	0.00003	0.00003
	CKN	(SE * SN)	-0.00002	-0.00001	-0.00001
	CKN	(SE * SN)	0.00239	0.00247	0.00254
	CKN	(!SE * SN)	0.00267	0.00275	0.00282
	CKN	(!SE * SN)	0.00003	0.00003	0.00005
	CKN	(!SE * SN)	-0.00002	-0.00001	0.00000
	CKN	(!SE * SN)	0.00239	0.00247	0.00254

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFNSX2H7H	CKN	(SE * SN)	0.00267	0.00275	0.00282
	CKN	(SE * SN)	0.00002	0.00003	0.00005
	CKN	(SE * SN)	-0.00002	-0.00001	0.00000
	CKN	(SE * SN)	0.00239	0.00247	0.00254
	CKN	(!SE * SN)	0.00267	0.00275	0.00282
	CKN	(!SE * SN)	0.00002	0.00003	0.00005
	CKN	(!SE * SN)	-0.00003	-0.00001	0.00000
	CKN	(!SE * SN)	0.00239	0.00248	0.00254

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

	CKN	**(SE * SN)**	0.00287	0.00293	0.00299
	CKN	**(SE * SN)**	-0.00003	-0.00003	-0.00002
	CKN	**(SE * SN)**	0.00000	0.00001	0.00002
	CKN	**(SE * SN)**	0.00243	0.00250	0.00256
	CKN	**(!SE * SN)**	0.00287	0.00293	0.00299
	CKN	**(!SE * SN)**	-0.00003	-0.00003	-0.00002
	CKN	**(!SE * SN)**	0.00000	0.00001	0.00003
	CKN	**(!SE * SN)**	0.00243	0.00250	0.00257
	SN	**(CKN * D * SE * SI)**	0.00172	0.00180	0.00187
	SN	**(CKN * D * SE * SI)**	-0.00006	-0.00005	-0.00004
	SN	**(CKN * D * SE * SI)**	0.00003	0.00004	0.00006
	SN	**(CKN * D * SE * SI)**	0.00132	0.00140	0.00148
	SN	**(CKN * D * SE * !SI)**	0.00183	0.00189	0.00196
	SN	**(CKN * D * SE * !SI)**	-0.00008	-0.00006	-0.00004
	SN	**(CKN * D * SE * !SI)**	0.00005	0.00006	0.00008
	SN	**(CKN * D * SE * !SI)**	0.00139	0.00146	0.00153
	SN	**(CKN * D * !SE * SI)**	0.00172	0.00180	0.00188
	SN	**(CKN * D * !SE * SI)**	-0.00006	-0.00005	-0.00002
	SN	**(CKN * D * !SE * SI)**	0.00003	0.00004	0.00006
	SN	**(CKN * D * !SE * SI)**	0.00132	0.00140	0.00148
	SN	**(CKN * D * !SE * !SI)**	0.00172	0.00180	0.00187
	SN	**(CKN * D * !SE * !SI)**	-0.00006	-0.00005	-0.00002
	SN	**(CKN * D * !SE * !SI)**	0.00003	0.00004	0.00006
	SN	**(CKN * D * !SE * !SI)**	0.00132	0.00140	0.00148
	SN	**(CKN * !D * SE * SI)**	0.00172	0.00180	0.00187
	SN	**(CKN * !D * SE * SI)**	-0.00006	-0.00005	-0.00004
	SN	**(CKN * !D * SE * SI)**	0.00003	0.00004	0.00006
	SN	**(CKN * !D * SE * SI)**	0.00132	0.00140	0.00148
	SN	**(CKN * !D * SE * !SI)**	0.00183	0.00189	0.00195
	SN	**(CKN * !D * SE * !SI)**	-0.00008	-0.00006	-0.00004
	SN	**(CKN * !D * SE * !SI)**	0.00005	0.00006	0.00007
	SN	**(CKN * !D * SE * !SI)**	0.00139	0.00146	0.00153
	SN	**(CKN * !D * !SE * SI)**	0.00183	0.00189	0.00196
	SN	**(CKN * !D * !SE * SI)**	-0.00008	-0.00006	-0.00004
	SN	**(CKN * !D * !SE * SI)**	0.00005	0.00006	0.00007
	SN	**(CKN * !D * !SE * SI)**	0.00139	0.00146	0.00153
SDFFNSX2H7H	**SN**	**(CKN * !D * !SE * !SI)**	0.00183	0.00190	0.00196
	SN	**(CKN * !D * !SE * !SI)**	-0.00008	-0.00006	-0.00004
	SN	**(CKN * !D * !SE * !SI)**	0.00005	0.00006	0.00007
	SN	**(CKN * !D * !SE * !SI)**	0.00139	0.00146	0.00153
	SN	**(!CKN * D * SE * SI)**	0.00248	0.00257	0.00265
	SN	**(!CKN * D * SE * SI)**	-0.00005	-0.00003	-0.00001
	SN	**(!CKN * D * SE * SI)**	0.00001	0.00002	0.00003
	SN	**(!CKN * D * SE * SI)**	0.00212	0.00221	0.00229
	SN	**(!CKN * D * SE * !SI)**	0.00250	0.00260	0.00268
	SN	**(!CKN * D * SE * !SI)**	-0.00005	-0.00003	-0.00001
	SN	**(!CKN * D * SE * !SI)**	0.00000	0.00002	0.00003
	SN	**(!CKN * D * SE * !SI)**	0.00215	0.00224	0.00232
	SN	**(!CKN * D * !SE * SI)**	0.00247	0.00257	0.00265
	SN	**(!CKN * D * !SE * SI)**	-0.00004	-0.00003	-0.00001
	SN	**(!CKN * D * !SE * SI)**	0.00000	0.00002	0.00003
	SN	**(!CKN * D * !SE * SI)**	0.00212	0.00221	0.00229
	SN	**(!CKN * D * !SE * !SI)**	0.00247	0.00257	0.00265
	SN	**(!CKN * D * !SE * !SI)**	-0.00004	-0.00003	-0.00001
	SN	**(!CKN * D * !SE * !SI)**	0.00000	0.00002	0.00003
	SN	**(!CKN * D * !SE * !SI)**	0.00212	0.00221	0.00229
	SN	**(!CKN * !D * SE * SI)**	0.00248	0.00257	0.00265
	SN	**(!CKN * !D * SE * SI)**	-0.00005	-0.00003	-0.00001
	SN	**(!CKN * !D * SE * SI)**	0.00001	0.00002	0.00003
	SN	**(!CKN * !D * SE * SI)**	0.00212	0.00221	0.00229
	SN	**(!CKN * !D * SE * !SI)**	0.00250	0.00260	0.00268
	SN	**(!CKN * !D * SE * !SI)**	-0.00005	-0.00003	-0.00001
	SN	**(!CKN * !D * SE * !SI)**	0.00000	0.00002	0.00003
	SN	**(!CKN * !D * SE * !SI)**	0.00215	0.00224	0.00232
	SN	**(!CKN * !D * !SE * SI)**	0.00251	0.00260	0.00268
	SN	**(!CKN * !D * !SE * SI)**	-0.00005	-0.00003	-0.00003
	SN	**(!CKN * !D * !SE * SI)**	0.00001	0.00002	0.00003
	SN	**(!CKN * !D * !SE * SI)**	0.00215	0.00224	0.00232
	SN	**(!CKN * !D * !SE * !SI)**	0.00251	0.00260	0.00268
	SN	**(!CKN * !D * !SE * !SI)**	-0.00005	-0.00003	-0.00002
	SN	**(!CKN * !D * !SE * !SI)**	0.00001	0.00002	0.00003
	SN	**(!CKN * !D * !SE * !SI)**	0.00215	0.00225	0.00232

Passive power(pJ) for CKN rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNSX2H7H	0.00360	0.00364	0.00366
	-0.00002	-0.00002	-0.00000
	-0.00003	-0.00002	-0.00001
	0.00429	0.00433	0.00436

Passive power(pJ) for CKN falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNSX2H7H	0.00432	0.00437	0.00443
	0.00000	0.00002	0.00002
	0.00002	0.00003	0.00003
	0.00357	0.00362	0.00368

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNSX2H7H	0.00188	0.00189	0.00191
	0.00013	0.00014	0.00015
	-0.00012	-0.00012	-0.00011
	0.00301	0.00302	0.00304

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNSX2H7H	0.00275	0.00277	0.00279
	-0.00015	-0.00014	-0.00013
	0.00011	0.00012	0.00012
	0.00165	0.00166	0.00168

Passive power(pJ) for SE rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNSX2H7H	0.00254	0.00257	0.00262
	-0.00010	-0.00009	-0.00008
	0.00006	0.00007	0.00008
	0.00335	0.00338	0.00341

Passive power(pJ) for SE falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNSX2H7H	0.00319	0.00322	0.00327
	0.00013	0.00014	0.00016
	-0.00008	-0.00007	-0.00006
	0.00252	0.00255	0.00262

Passive power(pJ) for SI rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNSX2H7H	0.00166	0.00167	0.00169
	0.00013	0.00013	0.00014
	-0.00012	-0.00012	-0.00011
	0.00284	0.00286	0.00287

Passive power(pJ) for SI falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNSX2H7H	0.00297	0.00300	0.00303
	-0.00014	-0.00013	-0.00013
	0.00011	0.00012	0.00013
	0.00182	0.00184	0.00186

Passive power(pJ) for SN rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNSX2H7H	0.00060	0.00060	0.00060
	0.00007	0.00007	0.00008
	0.00000	0.00000	0.00000
	0.00143	0.00143	0.00144

Passive power(pJ) for SN falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNSX2H7H	0.00021	0.00022	0.00023
	0.00001	0.00001	0.00002
	0.00000	0.00000	0.00000
	-0.00031	-0.00030	-0.00028

SDFFNX0P5H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Negative Edge Trigger Scan D Flip-Flop
Q = falling (CKN) ? (SE& SI ! SE&D) : pre_Q
QN = !Q

Truth Table

INPUT				OUTPUT	
CKN	D	SE	SI	Q	QN
F	0	0	x	0	1
F	x	1	0	0	1
F	x	1	1	1	0
F	1	0	x	1	0
x	x	x	x	IQ	IQN

Footprint

Cell Name	Area
SDFFNX0P5H7H	9.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)	
	CKN	D	SE	SI	Q	QN
SDFFNX0P5H7H	0.00108	0.00080	0.00222	0.00086	0.04281	0.04286

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
SDFFNX0P5H7H	0.00000	0.08892	0.09616

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFNX0P5H7H	CKN->Q (FR)	SE	0.13116	0.32046	0.77674
	CKN->Q (FR)	!SE	0.13116	0.32046	0.77674

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFNX0P5H7H	CKN->Q (FF)	SE	0.20765	0.37344	0.75152
	CKN->Q (FF)	!SE	0.20766	0.37347	0.75164

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFNX0P5H7H	CKN->QN (FR)	SE	0.25735	0.43714	0.88433
	CKN->QN (FR)	!SE	0.25736	0.43717	0.88449

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFNX0P5H7H	CKN->QN (FF)	SE	0.18067	0.33497	0.70884
	CKN->QN (FF)	!SE	0.18067	0.33497	0.70885

Constraint Information

Min Pulse Width (ns) for CKN:

Cell Name	High	Low
SDFFNX0P5H7H	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNX0P5H7H	**hold**	**CKN (F)**	-0.23969	-0.03359	0.15765
	setup	**CKN (F)**	-0.11852	0.09070	0.31210

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNX0P5H7H	**hold**	**CKN (F)**	-0.31736	-0.13290	-0.00365
	setup	**CKN (F)**	0.02346	0.15453	0.35023

Constraints(ns) for SE rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNX0P5H7H	**hold**	**CKN (F)**	-0.19886	-0.01133	0.17687
	setup	**CKN (F)**	0.05493	0.16797	0.29396

Constraints(ns) for SE falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNX0P5H7H	**hold**	**CKN (F)**	-0.22448	-0.05314	0.13165
	setup	**CKN (F)**	0.00278	0.13536	0.30403

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNX0P5H7H	hold	CKN (F)	-0.24098	-0.03124	0.16139
	setup	CKN (F)	-0.12224	0.08789	0.30793

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNX0P5H7H	hold	CKN (F)	-0.33381	-0.14522	-0.01767
	setup	CKN (F)	0.03759	0.16862	0.36798

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFNX0P5H7H	CKN	SE	0.00241	0.00248	0.00254
	CKN	SE	0.00004	0.00006	0.00008
	CKN	SE	-0.00005	-0.00003	-0.00002
	CKN	SE	0.00211	0.00218	0.00225
	CKN	!SE	0.00241	0.00248	0.00254
	CKN	!SE	0.00003	0.00006	0.00008
	CKN	!SE	-0.00005	-0.00004	-0.00002
	CKN	!SE	0.00211	0.00218	0.00225

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFNX0P5H7H	CKN	SE	0.00270	0.00277	0.00283
	CKN	SE	-0.00004	-0.00003	-0.00002
	CKN	SE	0.00004	0.00005	0.00006
	CKN	SE	0.00224	0.00230	0.00236
	CKN	!SE	0.00270	0.00277	0.00283
	CKN	!SE	-0.00005	-0.00003	-0.00002
	CKN	!SE	0.00004	0.00005	0.00006
	CKN	!SE	0.00224	0.00230	0.00236

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFNX0P5H7H	CKN	SE	0.00270	0.00277	0.00283
	CKN	SE	-0.00004	-0.00003	-0.00003
	CKN	SE	0.00004	0.00005	0.00006
	CKN	SE	0.00223	0.00230	0.00237
	CKN	!SE	0.00271	0.00277	0.00283
	CKN	!SE	-0.00005	-0.00003	-0.00002
	CKN	!SE	0.00003	0.00005	0.00005
	CKN	!SE	0.00224	0.00230	0.00237

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFNX0P5H7H	CKN	SE	0.00241	0.00248	0.00254
	CKN	SE	0.00004	0.00006	0.00006
	CKN	SE	-0.00005	-0.00003	-0.00002
	CKN	SE	0.00211	0.00218	0.00225
	CKN	!SE	0.00241	0.00248	0.00254
	CKN	!SE	0.00005	0.00006	0.00006
	CKN	!SE	-0.00005	-0.00003	-0.00002
	CKN	!SE	0.00211	0.00218	0.00225

Passive power(pJ) for CKN rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNX0P5H7H	0.00370	0.00373	0.00376
	-0.00001	-0.00000	0.00000
	-0.00003	-0.00003	-0.00002
	0.00448	0.00451	0.00456

Passive power(pJ) for CKN falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNX0P5H7H	0.00272	0.00276	0.00283
	0.00000	0.00000	0.00001
	0.00002	0.00003	0.00003
	0.00192	0.00196	0.00202

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNX0P5H7H	0.00195	0.00197	0.00198
	0.00016	0.00017	0.00017
	-0.00015	-0.00014	-0.00014
	0.00305	0.00308	0.00310

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNX0P5H7H	0.00240	0.00242	0.00243
	-0.00017	-0.00017	-0.00016
	0.00014	0.00014	0.00015
	0.00130	0.00131	0.00132

Passive power(pJ) for SE rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNX0P5H7H	0.00241	0.00245	0.00250
	-0.00011	-0.00011	-0.00010
	0.00009	0.00010	0.00013
	0.00327	0.00330	0.00334

Passive power(pJ) for SE falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNX0P5H7H	0.00338	0.00339	0.00341
	0.00010	0.00011	0.00013
	-0.00010	-0.00010	-0.00009
	0.00252	0.00254	0.00257

Passive power(pJ) for SI rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNX0P5H7H	0.00160	0.00162	0.00163
	0.00016	0.00016	0.00017
	-0.00014	-0.00014	-0.00014
	0.00269	0.00271	0.00272

Passive power(pJ) for SI falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNX0P5H7H	0.00273	0.00276	0.00279
	-0.00017	-0.00016	-0.00016
	0.00014	0.00014	0.00015
	0.00166	0.00167	0.00169

SDFFNX1H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Negative Edge Trigger Scan D Flip-Flop
Q = falling (CKN) ? (SE& SI ! SE&D) : pre_Q
QN = !Q

Truth Table

INPUT				OUTPUT	
CKN	D	SE	SI	Q	QN
F	0	0	x	0	1
F	x	1	0	0	1
F	x	1	1	1	0
F	1	0	x	1	0
x	x	x	x	IQ	IQN

Footprint

Cell Name	Area
SDFFNX1H7H	9.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)	
	CKN	D	SE	SI	Q	QN
SDFFNX1H7H	0.00115	0.00080	0.00221	0.00086	0.05026	0.05029

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
SDFFNX1H7H	0.00000	0.10279	0.10523

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
SDFFNX1H7H	CKN->Q (FR)	0.13035	0.32062	0.77900

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
SDFFNX1H7H	CKN->Q (FF)	0.20525	0.37368	0.75828

Delay(ns) to QN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
SDFFNX1H7H	CKN->QN (FR)	0.25511	0.43544	0.88482

Delay(ns) to QN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
SDFFNX1H7H	CKN->QN (FF)	0.18084	0.33745	0.71736

Constraint Information

Min Pulse Width (ns) for CKN:

Cell Name	High	Low
SDFFNX1H7H	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNX1H7H	**hold**	**CKN (F)**	-0.23834	-0.03254	0.16248
	setup	**CKN (F)**	-0.11952	0.08959	0.31118

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNX1H7H	**hold**	**CKN (F)**	-0.32048	-0.13365	-0.00487
	setup	**CKN (F)**	0.02357	0.15630	0.35352

Constraints(ns) for SE rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNX1H7H	**hold**	**CKN (F)**	-0.19517	-0.00937	0.17830
	setup	**CKN (F)**	0.05569	0.17009	0.29857

Constraints(ns) for SE falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNX1H7H	**hold**	**CKN (F)**	-0.22484	-0.05226	0.13254
	setup	**CKN (F)**	0.00178	0.13560	0.31023

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNX1H7H	hold	CKN (F)	-0.23695	-0.03007	0.16571
	setup	CKN (F)	-0.12476	0.08702	0.31007

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNX1H7H	hold	CKN (F)	-0.33521	-0.14596	-0.01620
	setup	CKN (F)	0.03529	0.17001	0.37219

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
SDFFNX1H7H	CKN	0.00248	0.00256	0.00263
	CKN	0.00004	0.00006	0.00007
	CKN	-0.00005	-0.00004	-0.00002
	CKN	0.00220	0.00228	0.00234

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
SDFFNX1H7H	CKN	0.00278	0.00286	0.00291
	CKN	-0.00004	-0.00004	-0.00002
	CKN	0.00004	0.00005	0.00006
	CKN	0.00232	0.00239	0.00246

Internal switching power(pJ) to QN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
SDFFNX1H7H	CKN	0.00279	0.00286	0.00292
	CKN	-0.00005	-0.00004	-0.00002
	CKN	0.00004	0.00005	0.00007
	CKN	0.00232	0.00239	0.00245

Internal switching power(pJ) to QN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
SDFFNX1H7H	CKN	0.00248	0.00256	0.00262
	CKN	0.00006	0.00006	0.00006
	CKN	-0.00005	-0.00004	-0.00004
	CKN	0.00220	0.00228	0.00234

Passive power(pJ) for CKN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNX1H7H	**(D * SE * SI)**	0.00383	0.00386	0.00390
	(D * SE * SI)	-0.00002	-0.00001	-0.00001
	(D * SE * SI)	-0.00000	-0.00000	0.00000
	(D * SE * SI)	0.00461	0.00464	0.00467
	(D * SE * !SI)	0.00324	0.00332	0.00340
	(D * SE * !SI)	-0.00000	-0.00000	0.00000
	(D * SE * !SI)	-0.00001	-0.00001	0.00000
	(D * SE * !SI)	0.00395	0.00403	0.00412
	(D * !SE * SI)	0.00384	0.00387	0.00390
	(D * !SE * SI)	-0.00002	-0.00002	-0.00001
	(D * !SE * SI)	-0.00001	-0.00000	0.00000
	(D * !SE * SI)	0.00461	0.00464	0.00467
	(D * !SE * !SI)	0.00384	0.00387	0.00390
	(D * !SE * !SI)	-0.00002	-0.00002	-0.00001
	(D * !SE * !SI)	-0.00001	-0.00000	0.00000
	(D * !SE * !SI)	0.00461	0.00464	0.00467
	(!D * SE * SI)	0.00384	0.00386	0.00390
	(!D * SE * SI)	-0.00002	-0.00001	-0.00001
	(!D * SE * SI)	-0.00000	-0.00000	0.00000
	(!D * SE * SI)	0.00461	0.00464	0.00467
	(!D * SE * !SI)	0.00324	0.00332	0.00340
	(!D * SE * !SI)	-0.00000	-0.00000	0.00000
	(!D * SE * !SI)	-0.00001	-0.00001	0.00000
	(!D * SE * !SI)	0.00395	0.00403	0.00412
	(!D * !SE * SI)	0.00324	0.00332	0.00340
	(!D * !SE * SI)	-0.00000	-0.00000	0.00000
	(!D * !SE * SI)	-0.00002	-0.00001	0.00000
	(!D * !SE * SI)	0.00395	0.00403	0.00412
	(!D * !SE * !SI)	0.00324	0.00332	0.00340
	(!D * !SE * !SI)	-0.00000	-0.00000	0.00000
	(!D * !SE * !SI)	-0.00002	-0.00001	0.00000
	(!D * !SE * !SI)	0.00395	0.00403	0.00412

Passive power(pJ) for CKN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNX1H7H	**(D * SE * SI)**	0.00258	0.00263	0.00269
	(D * SE * SI)	0.00002	0.00003	0.00003
	(D * SE * SI)	0.00000	0.00000	0.00000
	(D * SE * SI)	0.00185	0.00190	0.00195
	(D * SE * !SI)	0.00279	0.00283	0.00289
	(D * SE * !SI)	0.00000	0.00000	0.00000
	(D * SE * !SI)	0.00002	0.00003	0.00003
	(D * SE * !SI)	0.00200	0.00205	0.00211
	(D * !SE * SI)	0.00258	0.00263	0.00269
	(D * !SE * SI)	0.00002	0.00003	0.00003
	(D * !SE * SI)	0.00000	0.00000	0.00001
	(D * !SE * SI)	0.00185	0.00190	0.00195
	(D * !SE * !SI)	0.00258	0.00262	0.00269
	(D * !SE * !SI)	0.00002	0.00003	0.00003
	(D * !SE * !SI)	0.00000	0.00000	0.00001
	(D * !SE * !SI)	0.00185	0.00190	0.00195
	(!D * SE * SI)	0.00258	0.00263	0.00269
	(!D * SE * SI)	0.00002	0.00003	0.00003
	(!D * SE * SI)	0.00000	0.00000	0.00000
	(!D * SE * SI)	0.00185	0.00190	0.00195
	(!D * SE * !SI)	0.00279	0.00283	0.00289
	(!D * SE * !SI)	0.00000	0.00000	0.00000
	(!D * SE * !SI)	0.00002	0.00003	0.00003
	(!D * SE * !SI)	0.00200	0.00205	0.00211
	(!D * !SE * SI)	0.00279	0.00283	0.00290
	(!D * !SE * SI)	0.00000	0.00000	0.00000
	(!D * !SE * SI)	0.00003	0.00003	0.00004
	(!D * !SE * SI)	0.00200	0.00205	0.00209
	(!D * !SE * !SI)	0.00279	0.00283	0.00290
	(!D * !SE * !SI)	0.00000	0.00000	0.00000
	(!D * !SE * !SI)	0.00003	0.00003	0.00004
	(!D * !SE * !SI)	0.00200	0.00205	0.00209

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNX1H7H	**(CKN * SE * SI)**	-0.00012	-0.00011	-0.00009
	(CKN * SE * SI)	-0.00003	-0.00003	-0.00003
	(CKN * SE * SI)	0.00002	0.00002	0.00002
	(CKN * SE * SI)	0.00030	0.00030	0.00030
	(CKN * SE * !SI)	-0.00012	-0.00011	-0.00010
	(CKN * SE * !SI)	-0.00003	-0.00003	-0.00002
	(CKN * SE * !SI)	0.00002	0.00002	0.00002
	(CKN * SE * !SI)	0.00030	0.00030	0.00030
	(CKN * !SE * SI)	0.00203	0.00204	0.00206
	(CKN * !SE * SI)	0.00015	0.00016	0.00017
	(CKN * !SE * SI)	-0.00014	-0.00014	-0.00013
	(CKN * !SE * SI)	0.00312	0.00314	0.00316
	(CKN * !SE * !SI)	0.00203	0.00204	0.00206
	(CKN * !SE * !SI)	0.00016	0.00016	0.00017
	(CKN * !SE * !SI)	-0.00014	-0.00014	-0.00013
	(CKN * !SE * !SI)	0.00312	0.00314	0.00316
	(!CKN * SE * SI)	-0.00012	-0.00011	-0.00010
	(!CKN * SE * SI)	-0.00003	-0.00003	-0.00003
	(!CKN * SE * SI)	0.00001	0.00002	0.00002
	(!CKN * SE * SI)	0.00030	0.00030	0.00031
	(!CKN * SE * !SI)	-0.00012	-0.00011	-0.00010
	(!CKN * SE * !SI)	-0.00003	-0.00003	-0.00003
	(!CKN * SE * !SI)	0.00001	0.00002	0.00002
	(!CKN * SE * !SI)	0.00029	0.00030	0.00030
	(!CKN * !SE * SI)	0.00031	0.00032	0.00034
	(!CKN * !SE * SI)	0.00017	0.00018	0.00018
	(!CKN * !SE * SI)	-0.00014	-0.00014	-0.00014
	(!CKN * !SE * SI)	0.00148	0.00150	0.00152
	(!CKN * !SE * !SI)	0.00031	0.00032	0.00034
	(!CKN * !SE * !SI)	0.00017	0.00018	0.00018
	(!CKN * !SE * !SI)	-0.00014	-0.00014	-0.00014
	(!CKN * !SE * !SI)	0.00148	0.00150	0.00153

Passive power(pJ) for D falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNX1H7H	**(CKN * SE * SI)**	0.00012	0.00012	0.00012
	(CKN * SE * SI)	0.00003	0.00003	0.00003
	(CKN * SE * SI)	-0.00002	-0.00002	-0.00002
	(CKN * SE * SI)	-0.00030	-0.00029	-0.00028
	(CKN * SE * !SI)	0.00012	0.00012	0.00013
	(CKN * SE * !SI)	0.00002	0.00003	0.00003
	(CKN * SE * !SI)	-0.00002	-0.00002	-0.00002
	(CKN * SE * !SI)	-0.00030	-0.00029	-0.00028
	(CKN * !SE * SI)	0.00243	0.00245	0.00247
	(CKN * !SE * SI)	-0.00017	-0.00016	-0.00015
	(CKN * !SE * SI)	0.00013	0.00014	0.00014
	(CKN * !SE * SI)	0.00133	0.00134	0.00136
	(CKN * !SE * !SI)	0.00242	0.00245	0.00247
	(CKN * !SE * !SI)	-0.00017	-0.00016	-0.00016
	(CKN * !SE * !SI)	0.00013	0.00014	0.00014
	(CKN * !SE * !SI)	0.00133	0.00134	0.00136
	(!CKN * SE * SI)	0.00012	0.00012	0.00012
	(!CKN * SE * SI)	0.00003	0.00003	0.00003
	(!CKN * SE * SI)	-0.00002	-0.00002	-0.00001
	(!CKN * SE * SI)	-0.00030	-0.00029	-0.00028
	(!CKN * SE * !SI)	0.00012	0.00013	0.00013
	(!CKN * SE * !SI)	0.00003	0.00003	0.00003
	(!CKN * SE * !SI)	-0.00002	-0.00002	-0.00001
	(!CKN * SE * !SI)	-0.00030	-0.00029	-0.00028
	(!CKN * !SE * SI)	0.00129	0.00130	0.00132
	(!CKN * !SE * SI)	-0.00018	-0.00018	-0.00017
	(!CKN * !SE * SI)	0.00014	0.00014	0.00014
	(!CKN * !SE * SI)	0.00011	0.00012	0.00013
	(!CKN * !SE * !SI)	0.00129	0.00130	0.00132
	(!CKN * !SE * !SI)	-0.00018	-0.00018	-0.00017
	(!CKN * !SE * !SI)	0.00014	0.00014	0.00014
	(!CKN * !SE * !SI)	0.00011	0.00012	0.00013

Passive power(pJ) for SE rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNX1H7H	**(CKN * D * SI)**	-0.00017	-0.00015	-0.00011
	(CKN * D * SI)	0.00003	0.00003	0.00004
	(CKN * D * SI)	-0.00003	-0.00002	-0.00000
	(CKN * D * SI)	0.00120	0.00123	0.00128
	(CKN * D * !SI)	0.00245	0.00248	0.00253
	(CKN * D * !SI)	-0.00011	-0.00011	-0.00010
	(CKN * D * !SI)	0.00008	0.00009	0.00011
	(CKN * D * !SI)	0.00330	0.00334	0.00337
	(CKN * !D * SI)	0.00146	0.00151	0.00157
	(CKN * !D * SI)	0.00017	0.00017	0.00017
	(CKN * !D * SI)	-0.00015	-0.00015	-0.00014
	(CKN * !D * SI)	0.00335	0.00340	0.00349
	(CKN * !D * !SI)	-0.00008	-0.00006	-0.00002
	(CKN * !D * !SI)	0.00002	0.00003	0.00003
	(CKN * !D * !SI)	-0.00003	-0.00003	-0.00003
	(CKN * !D * !SI)	0.00128	0.00131	0.00136
	(!CKN * D * SI)	-0.00017	-0.00015	-0.00011
	(!CKN * D * SI)	0.00002	0.00003	0.00003
	(!CKN * D * SI)	-0.00003	-0.00003	-0.00002
	(!CKN * D * SI)	0.00120	0.00123	0.00127
	(!CKN * D * !SI)	0.00130	0.00136	0.00145
	(!CKN * D * !SI)	-0.00013	-0.00012	-0.00012
	(!CKN * D * !SI)	0.00009	0.00010	0.00011
	(!CKN * D * !SI)	0.00208	0.00213	0.00220
	(!CKN * !D * SI)	-0.00028	-0.00023	-0.00016
	(!CKN * !D * SI)	0.00018	0.00018	0.00019
	(!CKN * !D * SI)	-0.00015	-0.00015	-0.00014
	(!CKN * !D * SI)	0.00169	0.00175	0.00182
	(!CKN * !D * !SI)	-0.00008	-0.00006	-0.00002
	(!CKN * !D * !SI)	0.00002	0.00003	0.00003
	(!CKN * !D * !SI)	-0.00003	-0.00003	-0.00002
	(!CKN * !D * !SI)	0.00128	0.00131	0.00135

Passive power(pJ) for SE falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNX1H7H	**(CKN * D * SI)**	0.00122	0.00124	0.00126
	(CKN * D * SI)	-0.00004	-0.00003	-0.00002
	(CKN * D * SI)	0.00000	0.00002	0.00003
	(CKN * D * SI)	-0.00016	-0.00013	-0.00008
	(CKN * D * !SI)	0.00344	0.00346	0.00348
	(CKN * D * !SI)	0.00010	0.00011	0.00013
	(CKN * D * !SI)	-0.00009	-0.00009	-0.00008
	(CKN * D * !SI)	0.00259	0.00261	0.00267
	(CKN * !D * SI)	0.00304	0.00310	0.00316
	(CKN * !D * SI)	-0.00017	-0.00017	-0.00017
	(CKN * !D * SI)	0.00014	0.00015	0.00015
	(CKN * !D * SI)	0.00115	0.00120	0.00126
	(CKN * !D * !SI)	0.00111	0.00114	0.00116
	(CKN * !D * !SI)	-0.00003	-0.00003	-0.00002
	(CKN * !D * !SI)	0.00003	0.00003	0.00003
	(CKN * !D * !SI)	-0.00026	-0.00023	-0.00021
	(!CKN * D * SI)	0.00121	0.00123	0.00126
	(!CKN * D * SI)	-0.00003	-0.00003	-0.00002
	(!CKN * D * SI)	0.00002	0.00003	0.00003
	(!CKN * D * SI)	-0.00016	-0.00013	-0.00010
	(!CKN * D * !SI)	0.00173	0.00176	0.00180
	(!CKN * D * !SI)	0.00012	0.00012	0.00013
	(!CKN * D * !SI)	-0.00010	-0.00009	-0.00009
	(!CKN * D * !SI)	0.00096	0.00099	0.00103
	(!CKN * !D * SI)	0.00188	0.00194	0.00200
	(!CKN * !D * SI)	-0.00019	-0.00018	-0.00017
	(!CKN * !D * SI)	0.00015	0.00015	0.00015
	(!CKN * !D * SI)	-0.00009	-0.00004	0.00003
	(!CKN * !D * !SI)	0.00111	0.00113	0.00116
	(!CKN * !D * !SI)	-0.00003	-0.00003	-0.00001
	(!CKN * !D * !SI)	0.00002	0.00003	0.00003
	(!CKN * !D * !SI)	-0.00026	-0.00023	-0.00018

Passive power(pJ) for SI rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNX1H7H	**(CKN * D * SE)**	0.00167	0.00168	0.00170
	(CKN * D * SE)	0.00015	0.00016	0.00016
	(CKN * D * SE)	-0.00014	-0.00013	-0.00012
	(CKN * D * SE)	0.00275	0.00277	0.00280
	(CKN * D * !SE)	-0.00018	-0.00017	-0.00016
	(CKN * D * !SE)	-0.00003	-0.00002	-0.00002
	(CKN * D * !SE)	0.00001	0.00002	0.00002
	(CKN * D * !SE)	0.00022	0.00023	0.00023
	(CKN * !D * SE)	0.00167	0.00169	0.00171
	(CKN * !D * SE)	0.00014	0.00015	0.00016
	(CKN * !D * SE)	-0.00014	-0.00013	-0.00012
	(CKN * !D * SE)	0.00275	0.00277	0.00278
	(CKN * !D * !SE)	-0.00019	-0.00019	-0.00018
	(CKN * !D * !SE)	-0.00003	-0.00002	-0.00002
	(CKN * !D * !SE)	0.00002	0.00002	0.00002
	(CKN * !D * !SE)	0.00021	0.00021	0.00022
	(!CKN * D * SE)	-0.00005	-0.00004	-0.00003
	(!CKN * D * SE)	0.00017	0.00017	0.00017
	(!CKN * D * SE)	-0.00014	-0.00014	-0.00012
	(!CKN * D * SE)	0.00111	0.00112	0.00114
	(!CKN * D * !SE)	-0.00018	-0.00017	-0.00016
	(!CKN * D * !SE)	-0.00002	-0.00002	-0.00002
	(!CKN * D * !SE)	0.00001	0.00002	0.00002
	(!CKN * D * !SE)	0.00023	0.00023	0.00023
	(!CKN * !D * SE)	-0.00005	-0.00004	-0.00003
	(!CKN * !D * SE)	0.00017	0.00017	0.00017
	(!CKN * !D * SE)	-0.00014	-0.00014	-0.00014
	(!CKN * !D * SE)	0.00111	0.00113	0.00116
	(!CKN * !D * !SE)	-0.00019	-0.00019	-0.00018
	(!CKN * !D * !SE)	-0.00003	-0.00003	-0.00002
	(!CKN * !D * !SE)	0.00002	0.00002	0.00002
	(!CKN * !D * !SE)	0.00021	0.00021	0.00022

Passive power(pJ) for SI falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNX1H7H	**(CKN * D * SE)**	0.00276	0.00279	0.00281
	(CKN * D * SE)	-0.00016	-0.00016	-0.00015
	(CKN * D * SE)	0.00012	0.00014	0.00014
	(CKN * D * SE)	0.00169	0.00171	0.00174
	(CKN * D * !SE)	0.00018	0.00018	0.00018
	(CKN * D * !SE)	0.00002	0.00002	0.00003
	(CKN * D * !SE)	-0.00002	-0.00002	-0.00001
	(CKN * D * !SE)	-0.00022	-0.00022	-0.00021
	(CKN * !D * SE)	0.00276	0.00279	0.00282
	(CKN * !D * SE)	-0.00016	-0.00015	-0.00014
	(CKN * !D * SE)	0.00012	0.00014	0.00014
	(CKN * !D * SE)	0.00169	0.00171	0.00174
	(CKN * !D * !SE)	0.00019	0.00020	0.00020
	(CKN * !D * !SE)	0.00002	0.00002	0.00003
	(CKN * !D * !SE)	-0.00002	-0.00002	-0.00002
	(CKN * !D * !SE)	-0.00021	-0.00020	-0.00019
	(!CKN * D * SE)	0.00163	0.00165	0.00167
	(!CKN * D * SE)	-0.00017	-0.00017	-0.00017
	(!CKN * D * SE)	0.00014	0.00014	0.00014
	(!CKN * D * SE)	0.00047	0.00048	0.00050
	(!CKN * D * !SE)	0.00018	0.00018	0.00018
	(!CKN * D * !SE)	0.00002	0.00002	0.00002
	(!CKN * D * !SE)	-0.00002	-0.00002	-0.00001
	(!CKN * D * !SE)	-0.00023	-0.00022	-0.00020
	(!CKN * !D * SE)	0.00163	0.00164	0.00166
	(!CKN * !D * SE)	-0.00017	-0.00017	-0.00017
	(!CKN * !D * SE)	0.00014	0.00014	0.00014
	(!CKN * !D * SE)	0.00047	0.00048	0.00050
	(!CKN * !D * !SE)	0.00019	0.00020	0.00020
	(!CKN * !D * !SE)	0.00002	0.00003	0.00003
	(!CKN * !D * !SE)	-0.00002	-0.00002	-0.00002
	(!CKN * !D * !SE)	-0.00021	-0.00020	-0.00019

SDFFNX2H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Negative Edge Trigger Scan D Flip-Flop
Q = falling (CKN) ? (SE& SI ! SE&D) : pre_Q
QN = !Q

Truth Table

INPUT				OUTPUT	
CKN	D	SE	SI	Q	QN
F	0	0	x	0	1
F	x	1	0	0	1
F	x	1	1	1	0
F	1	0	x	1	0
x	x	x	x	IQ	IQN

Footprint

Cell Name	Area
SDFFNX2H7H	9.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)	
	CKN	D	SE	SI	Q	QN
SDFFNX2H7H	0.00117	0.00079	0.00223	0.00087	0.05709	0.05723

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
SDFFNX2H7H	0.00000	0.11330	0.11586

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
SDFFNX2H7H	CKN->Q (FR)	0.12762	0.31779	0.77511

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
SDFFNX2H7H	CKN->Q (FF)	0.19608	0.36459	0.74950

Delay(ns) to QN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
SDFFNX2H7H	CKN->QN (FR)	0.24697	0.42712	0.87565

Delay(ns) to QN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
SDFFNX2H7H	CKN->QN (FF)	0.18011	0.33737	0.71860

Constraint Information

Min Pulse Width (ns) for CKN:

Cell Name	High	Low
SDFFNX2H7H	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNX2H7H	**hold**	**CKN (F)**	-0.24396	-0.03568	0.15486
	setup	**CKN (F)**	-0.11994	0.09007	0.31279

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNX2H7H	**hold**	**CKN (F)**	-0.32047	-0.13474	-0.00616
	setup	**CKN (F)**	0.02480	0.15769	0.35675

Constraints(ns) for SE rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNX2H7H	**hold**	**CKN (F)**	-0.20319	-0.01314	0.17510
	setup	**CKN (F)**	0.05804	0.17092	0.29977

Constraints(ns) for SE falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNX2H7H	**hold**	**CKN (F)**	-0.22870	-0.05442	0.13213
	setup	**CKN (F)**	0.00222	0.13639	0.31103

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNX2H7H	hold	CKN (F)	-0.24147	-0.03313	0.16046
	setup	CKN (F)	-0.12139	0.08740	0.31038

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNX2H7H	hold	CKN (F)	-0.33585	-0.14768	-0.01948
	setup	CKN (F)	0.03664	0.17137	0.37343

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
SDFFNX2H7H	CKN	0.00251	0.00259	0.00266
	CKN	0.00005	0.00007	0.00009
	CKN	-0.00005	-0.00004	-0.00002
	CKN	0.00223	0.00231	0.00238

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
SDFFNX2H7H	CKN	0.00281	0.00288	0.00294
	CKN	-0.00005	-0.00004	-0.00002
	CKN	0.00004	0.00006	0.00006
	CKN	0.00233	0.00240	0.00247

Internal switching power(pJ) to QN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
SDFFNX2H7H	CKN	0.00281	0.00288	0.00295
	CKN	-0.00004	-0.00004	-0.00004
	CKN	0.00006	0.00006	0.00006
	CKN	0.00233	0.00240	0.00247

Internal switching power(pJ) to QN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
SDFFNX2H7H	CKN	0.00251	0.00259	0.00266
	CKN	0.00006	0.00007	0.00007
	CKN	-0.00005	-0.00004	-0.00004
	CKN	0.00223	0.00231	0.00238

Passive power(pJ) for CKN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNX2H7H	**(D * SE * SI)**	0.00374	0.00377	0.00380
	(D * SE * SI)	-0.00003	-0.00002	-0.00002
	(D * SE * SI)	-0.00001	-0.00000	0.00000
	(D * SE * SI)	0.00452	0.00455	0.00459
	(D * SE * !SI)	0.00323	0.00331	0.00339
	(D * SE * !SI)	-0.00001	-0.00000	0.00000
	(D * SE * !SI)	-0.00002	-0.00001	0.00000
	(D * SE * !SI)	0.00395	0.00402	0.00409
	(D * !SE * SI)	0.00374	0.00377	0.00379
	(D * !SE * SI)	-0.00003	-0.00002	-0.00002
	(D * !SE * SI)	-0.00000	-0.00000	0.00000
	(D * !SE * SI)	0.00451	0.00455	0.00459
	(D * !SE * !SI)	0.00374	0.00377	0.00379
	(D * !SE * !SI)	-0.00003	-0.00002	-0.00002
	(D * !SE * !SI)	-0.00000	-0.00000	0.00000
	(D * !SE * !SI)	0.00451	0.00455	0.00459
	(!D * SE * SI)	0.00374	0.00377	0.00380
	(!D * SE * SI)	-0.00003	-0.00003	-0.00002
	(!D * SE * SI)	-0.00001	-0.00000	0.00000
	(!D * SE * SI)	0.00452	0.00455	0.00459
	(!D * SE * !SI)	0.00323	0.00331	0.00337
	(!D * SE * !SI)	-0.00001	-0.00000	0.00000
	(!D * SE * !SI)	-0.00001	-0.00001	-0.00000
	(!D * SE * !SI)	0.00395	0.00403	0.00411
	(!D * !SE * SI)	0.00323	0.00331	0.00340
	(!D * !SE * SI)	-0.00001	-0.00000	0.00000
	(!D * !SE * SI)	-0.00001	-0.00001	0.00000
	(!D * !SE * SI)	0.00395	0.00402	0.00409
	(!D * !SE * !SI)	0.00323	0.00331	0.00340
	(!D * !SE * !SI)	-0.00001	-0.00000	0.00000
	(!D * !SE * !SI)	-0.00001	-0.00001	0.00000
	(!D * !SE * !SI)	0.00395	0.00402	0.00409

Passive power(pJ) for CKN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNX2H7H	**(D * SE * SI)**	0.00253	0.00257	0.00263
	(D * SE * SI)	0.00002	0.00003	0.00004
	(D * SE * SI)	0.00000	0.00000	0.00001
	(D * SE * SI)	0.00179	0.00183	0.00188
	(D * SE * !SI)	0.00272	0.00276	0.00282
	(D * SE * !SI)	0.00000	0.00000	0.00001
	(D * SE * !SI)	0.00002	0.00003	0.00004
	(D * SE * !SI)	0.00192	0.00196	0.00202
	(D * !SE * SI)	0.00253	0.00257	0.00263
	(D * !SE * SI)	0.00002	0.00003	0.00004
	(D * !SE * SI)	0.00000	0.00000	0.00000
	(D * !SE * SI)	0.00179	0.00183	0.00188
	(D * !SE * !SI)	0.00253	0.00257	0.00263
	(D * !SE * !SI)	0.00002	0.00003	0.00004
	(D * !SE * !SI)	0.00000	0.00000	0.00000
	(D * !SE * !SI)	0.00179	0.00183	0.00188
	(!D * SE * SI)	0.00253	0.00257	0.00263
	(!D * SE * SI)	0.00002	0.00003	0.00004
	(!D * SE * SI)	0.00000	0.00000	0.00001
	(!D * SE * SI)	0.00179	0.00183	0.00188
	(!D * SE * !SI)	0.00272	0.00276	0.00282
	(!D * SE * !SI)	0.00000	0.00000	0.00001
	(!D * SE * !SI)	0.00002	0.00003	0.00004
	(!D * SE * !SI)	0.00192	0.00196	0.00202
	(!D * !SE * SI)	0.00272	0.00276	0.00281
	(!D * !SE * SI)	0.00000	0.00000	0.00001
	(!D * !SE * SI)	0.00002	0.00003	0.00004
	(!D * !SE * SI)	0.00192	0.00196	0.00203
	(!D * !SE * !SI)	0.00272	0.00276	0.00281
	(!D * !SE * !SI)	0.00000	0.00000	0.00001
	(!D * !SE * !SI)	0.00002	0.00003	0.00004
	(!D * !SE * !SI)	0.00192	0.00196	0.00203

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNX2H7H	**(CKN * SE * SI)**	-0.00012	-0.00011	-0.00009
	(CKN * SE * SI)	-0.00003	-0.00003	-0.00003
	(CKN * SE * SI)	0.00002	0.00002	0.00002
	(CKN * SE * SI)	0.00030	0.00030	0.00030
	(CKN * SE * !SI)	-0.00012	-0.00011	-0.00010
	(CKN * SE * !SI)	-0.00003	-0.00003	-0.00002
	(CKN * SE * !SI)	0.00001	0.00002	0.00002
	(CKN * SE * !SI)	0.00030	0.00030	0.00030
	(CKN * !SE * SI)	0.00206	0.00208	0.00210
	(CKN * !SE * SI)	0.00015	0.00015	0.00016
	(CKN * !SE * SI)	-0.00013	-0.00013	-0.00012
	(CKN * !SE * SI)	0.00315	0.00317	0.00319
	(CKN * !SE * !SI)	0.00206	0.00208	0.00209
	(CKN * !SE * !SI)	0.00015	0.00015	0.00016
	(CKN * !SE * !SI)	-0.00015	-0.00014	-0.00013
	(CKN * !SE * !SI)	0.00315	0.00317	0.00319
	(!CKN * SE * SI)	-0.00012	-0.00011	-0.00010
	(!CKN * SE * SI)	-0.00003	-0.00003	-0.00003
	(!CKN * SE * SI)	0.00001	0.00002	0.00002
	(!CKN * SE * SI)	0.00030	0.00030	0.00031
	(!CKN * SE * !SI)	-0.00012	-0.00011	-0.00010
	(!CKN * SE * !SI)	-0.00003	-0.00003	-0.00003
	(!CKN * SE * !SI)	0.00002	0.00002	0.00002
	(!CKN * SE * !SI)	0.00030	0.00030	0.00030
	(!CKN * !SE * SI)	0.00031	0.00032	0.00033
	(!CKN * !SE * SI)	0.00017	0.00018	0.00019
	(!CKN * !SE * SI)	-0.00014	-0.00014	-0.00014
	(!CKN * !SE * SI)	0.00150	0.00151	0.00153
	(!CKN * !SE * !SI)	0.00031	0.00032	0.00034
	(!CKN * !SE * !SI)	0.00016	0.00018	0.00018
	(!CKN * !SE * !SI)	-0.00014	-0.00014	-0.00014
	(!CKN * !SE * !SI)	0.00150	0.00152	0.00153

Passive power(pJ) for D falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNX2H7H	**(CKN * SE * SI)**	0.00012	0.00012	0.00012
	(CKN * SE * SI)	0.00003	0.00003	0.00003
	(CKN * SE * SI)	-0.00002	-0.00002	-0.00002
	(CKN * SE * SI)	-0.00030	-0.00029	-0.00028
	(CKN * SE * !SI)	0.00012	0.00012	0.00013
	(CKN * SE * !SI)	0.00002	0.00003	0.00003
	(CKN * SE * !SI)	-0.00002	-0.00002	-0.00001
	(CKN * SE * !SI)	-0.00030	-0.00029	-0.00028
	(CKN * !SE * SI)	0.00248	0.00250	0.00252
	(CKN * !SE * SI)	-0.00016	-0.00015	-0.00015
	(CKN * !SE * SI)	0.00012	0.00013	0.00013
	(CKN * !SE * SI)	0.00139	0.00140	0.00142
	(CKN * !SE * !SI)	0.00248	0.00250	0.00251
	(CKN * !SE * !SI)	-0.00016	-0.00015	-0.00015
	(CKN * !SE * !SI)	0.00013	0.00014	0.00015
	(CKN * !SE * !SI)	0.00138	0.00140	0.00141
	(!CKN * SE * SI)	0.00012	0.00012	0.00012
	(!CKN * SE * SI)	0.00003	0.00003	0.00003
	(!CKN * SE * SI)	-0.00002	-0.00002	-0.00001
	(!CKN * SE * SI)	-0.00030	-0.00029	-0.00028
	(!CKN * SE * !SI)	0.00012	0.00012	0.00013
	(!CKN * SE * !SI)	0.00003	0.00003	0.00003
	(!CKN * SE * !SI)	-0.00002	-0.00002	-0.00002
	(!CKN * SE * !SI)	-0.00030	-0.00029	-0.00028
	(!CKN * !SE * SI)	0.00130	0.00131	0.00132
	(!CKN * !SE * SI)	-0.00018	-0.00018	-0.00017
	(!CKN * !SE * SI)	0.00014	0.00014	0.00014
	(!CKN * !SE * SI)	0.00010	0.00012	0.00013
	(!CKN * !SE * !SI)	0.00130	0.00131	0.00132
	(!CKN * !SE * !SI)	-0.00018	-0.00018	-0.00016
	(!CKN * !SE * !SI)	0.00014	0.00014	0.00014
	(!CKN * !SE * !SI)	0.00010	0.00011	0.00013

Passive power(pJ) for SE rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNX2H7H	**(CKN * D * SI)**	-0.00017	-0.00014	-0.00009
	(CKN * D * SI)	0.00001	0.00003	0.00004
	(CKN * D * SI)	-0.00003	-0.00002	-0.00001
	(CKN * D * SI)	0.00120	0.00122	0.00125
	(CKN * D * !SI)	0.00250	0.00254	0.00258
	(CKN * D * !SI)	-0.00011	-0.00010	-0.00009
	(CKN * D * !SI)	0.00008	0.00009	0.00010
	(CKN * D * !SI)	0.00336	0.00340	0.00344
	(CKN * !D * SI)	0.00149	0.00154	0.00162
	(CKN * !D * SI)	0.00016	0.00016	0.00016
	(CKN * !D * SI)	-0.00015	-0.00014	-0.00014
	(CKN * !D * SI)	0.00337	0.00343	0.00349
	(CKN * !D * !SI)	-0.00009	-0.00006	-0.00003
	(CKN * !D * !SI)	0.00002	0.00003	0.00004
	(CKN * !D * !SI)	-0.00003	-0.00002	-0.00001
	(CKN * !D * !SI)	0.00128	0.00130	0.00132
	(!CKN * D * SI)	-0.00017	-0.00015	-0.00011
	(!CKN * D * SI)	0.00003	0.00003	0.00003
	(!CKN * D * SI)	-0.00003	-0.00002	-0.00002
	(!CKN * D * SI)	0.00120	0.00123	0.00127
	(!CKN * D * !SI)	0.00131	0.00137	0.00144
	(!CKN * D * !SI)	-0.00013	-0.00012	-0.00010
	(!CKN * D * !SI)	0.00009	0.00010	0.00011
	(!CKN * D * !SI)	0.00208	0.00213	0.00219
	(!CKN * !D * SI)	-0.00028	-0.00023	-0.00015
	(!CKN * !D * SI)	0.00018	0.00018	0.00019
	(!CKN * !D * SI)	-0.00015	-0.00015	-0.00014
	(!CKN * !D * SI)	0.00170	0.00175	0.00183
	(!CKN * !D * !SI)	-0.00009	-0.00006	-0.00003
	(!CKN * !D * !SI)	0.00002	0.00003	0.00004
	(!CKN * !D * !SI)	-0.00003	-0.00003	-0.00002
	(!CKN * !D * !SI)	0.00128	0.00130	0.00134

Passive power(pJ) for SE falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNX2H7H	**(CKN * D * SI)**	0.00121	0.00124	0.00128
	(CKN * D * SI)	-0.00003	-0.00003	-0.00001
	(CKN * D * SI)	0.00002	0.00003	0.00003
	(CKN * D * SI)	-0.00016	-0.00013	-0.00010
	(CKN * D * !SI)	0.00348	0.00350	0.00352
	(CKN * D * !SI)	0.00009	0.00010	0.00011
	(CKN * D * !SI)	-0.00010	-0.00009	-0.00008
	(CKN * D * !SI)	0.00262	0.00264	0.00267
	(CKN * !D * SI)	0.00310	0.00315	0.00322
	(CKN * !D * SI)	-0.00016	-0.00016	-0.00015
	(CKN * !D * SI)	0.00014	0.00014	0.00015
	(CKN * !D * SI)	0.00121	0.00126	0.00132
	(CKN * !D * !SI)	0.00112	0.00115	0.00118
	(CKN * !D * !SI)	-0.00003	-0.00002	-0.00000
	(CKN * !D * !SI)	0.00003	0.00003	0.00003
	(CKN * !D * !SI)	-0.00025	-0.00022	-0.00017
	(!CKN * D * SI)	0.00121	0.00123	0.00128
	(!CKN * D * SI)	-0.00003	-0.00003	-0.00002
	(!CKN * D * SI)	0.00002	0.00002	0.00003
	(!CKN * D * SI)	-0.00016	-0.00014	-0.00010
	(!CKN * D * !SI)	0.00174	0.00177	0.00181
	(!CKN * D * !SI)	0.00010	0.00012	0.00013
	(!CKN * D * !SI)	-0.00010	-0.00009	-0.00009
	(!CKN * D * !SI)	0.00098	0.00101	0.00104
	(!CKN * !D * SI)	0.00190	0.00195	0.00201
	(!CKN * !D * SI)	-0.00019	-0.00018	-0.00017
	(!CKN * !D * SI)	0.00015	0.00015	0.00015
	(!CKN * !D * SI)	-0.00009	-0.00003	0.00004
	(!CKN * !D * !SI)	0.00112	0.00114	0.00117
	(!CKN * !D * !SI)	-0.00003	-0.00003	-0.00002
	(!CKN * !D * !SI)	0.00003	0.00003	0.00004
	(!CKN * !D * !SI)	-0.00025	-0.00023	-0.00020

Passive power(pJ) for SI rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNX2H7H	**(CKN * D * SE)**	0.00170	0.00172	0.00173
	(CKN * D * SE)	0.00015	0.00015	0.00015
	(CKN * D * SE)	-0.00013	-0.00013	-0.00013
	(CKN * D * SE)	0.00278	0.00280	0.00282
	(CKN * D * !SE)	-0.00018	-0.00017	-0.00016
	(CKN * D * !SE)	-0.00003	-0.00002	-0.00002
	(CKN * D * !SE)	0.00001	0.00002	0.00002
	(CKN * D * !SE)	0.00023	0.00023	0.00024
	(CKN * !D * SE)	0.00170	0.00172	0.00173
	(CKN * !D * SE)	0.00015	0.00015	0.00015
	(CKN * !D * SE)	-0.00013	-0.00013	-0.00012
	(CKN * !D * SE)	0.00278	0.00280	0.00282
	(CKN * !D * !SE)	-0.00019	-0.00018	-0.00017
	(CKN * !D * !SE)	-0.00003	-0.00002	-0.00002
	(CKN * !D * !SE)	0.00001	0.00002	0.00002
	(CKN * !D * !SE)	0.00022	0.00022	0.00022
	(!CKN * D * SE)	-0.00005	-0.00004	-0.00002
	(!CKN * D * SE)	0.00016	0.00017	0.00017
	(!CKN * D * SE)	-0.00014	-0.00014	-0.00013
	(!CKN * D * SE)	0.00113	0.00114	0.00116
	(!CKN * D * !SE)	-0.00018	-0.00017	-0.00016
	(!CKN * D * !SE)	-0.00002	-0.00002	-0.00002
	(!CKN * D * !SE)	0.00001	0.00002	0.00002
	(!CKN * D * !SE)	0.00023	0.00023	0.00023
	(!CKN * !D * SE)	-0.00005	-0.00004	-0.00002
	(!CKN * !D * SE)	0.00016	0.00017	0.00017
	(!CKN * !D * SE)	-0.00014	-0.00014	-0.00013
	(!CKN * !D * SE)	0.00113	0.00114	0.00116
	(!CKN * !D * !SE)	-0.00019	-0.00018	-0.00017
	(!CKN * !D * !SE)	-0.00003	-0.00003	-0.00002
	(!CKN * !D * !SE)	0.00002	0.00002	0.00002
	(!CKN * !D * !SE)	0.00022	0.00022	0.00022

Passive power(pJ) for SI falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNX2H7H	**(CKN * D * SE)**	0.00282	0.00284	0.00286
	(CKN * D * SE)	-0.00015	-0.00015	-0.00014
	(CKN * D * SE)	0.00013	0.00013	0.00015
	(CKN * D * SE)	0.00175	0.00176	0.00178
	(CKN * D * !SE)	0.00018	0.00018	0.00018
	(CKN * D * !SE)	0.00002	0.00003	0.00003
	(CKN * D * !SE)	-0.00002	-0.00002	-0.00001
	(CKN * D * !SE)	-0.00023	-0.00022	-0.00021
	(CKN * !D * SE)	0.00282	0.00285	0.00287
	(CKN * !D * SE)	-0.00015	-0.00015	-0.00015
	(CKN * !D * SE)	0.00012	0.00013	0.00013
	(CKN * !D * SE)	0.00175	0.00177	0.00179
	(CKN * !D * !SE)	0.00019	0.00019	0.00020
	(CKN * !D * !SE)	0.00002	0.00003	0.00003
	(CKN * !D * !SE)	-0.00002	-0.00002	-0.00001
	(CKN * !D * !SE)	-0.00022	-0.00021	-0.00020
	(!CKN * D * SE)	0.00164	0.00166	0.00168
	(!CKN * D * SE)	-0.00017	-0.00017	-0.00016
	(!CKN * D * SE)	0.00013	0.00014	0.00014
	(!CKN * D * SE)	0.00047	0.00048	0.00050
	(!CKN * D * !SE)	0.00018	0.00018	0.00018
	(!CKN * D * !SE)	0.00002	0.00002	0.00002
	(!CKN * D * !SE)	-0.00002	-0.00002	-0.00001
	(!CKN * D * !SE)	-0.00023	-0.00022	-0.00021
	(!CKN * !D * SE)	0.00164	0.00166	0.00169
	(!CKN * !D * SE)	-0.00017	-0.00017	-0.00016
	(!CKN * !D * SE)	0.00013	0.00014	0.00014
	(!CKN * !D * SE)	0.00047	0.00048	0.00050
	(!CKN * !D * !SE)	0.00019	0.00019	0.00020
	(!CKN * !D * !SE)	0.00002	0.00003	0.00003
	(!CKN * !D * !SE)	-0.00002	-0.00002	-0.00002
	(!CKN * !D * !SE)	-0.00022	-0.00021	-0.00019

SDFFNX3H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Negative Edge Trigger Scan D Flip-Flop
Q = falling (CKN) ? (SE& SI ! SE&D) : pre_Q
QN = !Q

Truth Table

INPUT				OUTPUT	
CKN	D	SE	SI	Q	QN
F	0	0	x	0	1
F	x	1	0	0	1
F	x	1	1	1	0
F	1	0	x	1	0
x	x	x	x	IQ	IQN

Footprint

Cell Name	Area
SDFFNX3H7H	10.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)	
	CKN	D	SE	SI	Q	QN
SDFFNX3H7H	0.00124	0.00086	0.00242	0.00087	0.09099	0.09079

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
SDFFNX3H7H	0.00000	0.13438	0.14527

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
SDFFNX3H7H	CKN->Q (FR)	0.12642	0.31940	0.77813

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
SDFFNX3H7H	CKN->Q (FF)	0.19429	0.36608	0.75141

Delay(ns) to QN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
SDFFNX3H7H	CKN->QN (FR)	0.26631	0.44391	0.88854

Delay(ns) to QN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
SDFFNX3H7H	CKN->QN (FF)	0.19806	0.35476	0.73318

Constraint Information

Min Pulse Width (ns) for CKN:

Cell Name	High	Low
SDFFNX3H7H	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNX3H7H	**hold**	**CKN (F)**	-0.24340	-0.03674	0.15507
	setup	**CKN (F)**	-0.11772	0.08712	0.30668

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNX3H7H	**hold**	**CKN (F)**	-0.30992	-0.12779	-0.00183
	setup	**CKN (F)**	0.01628	0.14878	0.34241

Constraints(ns) for SE rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNX3H7H	**hold**	**CKN (F)**	-0.21942	-0.02446	0.16370
	setup	**CKN (F)**	0.06568	0.17581	0.30204

Constraints(ns) for SE falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNX3H7H	**hold**	**CKN (F)**	-0.22036	-0.05025	0.13166
	setup	**CKN (F)**	-0.00144	0.12868	0.30073

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNX3H7H	hold	CKN (F)	-0.25761	-0.04426	0.14946
	setup	CKN (F)	-0.11274	0.09693	0.32308

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNX3H7H	hold	CKN (F)	-0.34431	-0.15488	-0.02731
	setup	CKN (F)	0.04932	0.17899	0.38277

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
SDFFNX3H7H	CKN	0.00304	0.00316	0.00327
	CKN	0.00005	0.00007	0.00010
	CKN	-0.00006	-0.00004	-0.00001
	CKN	0.00274	0.00286	0.00297

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
SDFFNX3H7H	CKN	0.00339	0.00350	0.00360
	CKN	-0.00006	-0.00004	-0.00002
	CKN	0.00004	0.00006	0.00008
	CKN	0.00288	0.00299	0.00309

Internal switching power(pJ) to QN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
SDFFNX3H7H	CKN	0.00339	0.00351	0.00360
	CKN	-0.00007	-0.00004	-0.00004
	CKN	0.00006	0.00006	0.00008
	CKN	0.00288	0.00299	0.00309

Internal switching power(pJ) to QN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
SDFFNX3H7H	CKN	0.00304	0.00316	0.00327
	CKN	0.00006	0.00007	0.00007
	CKN	-0.00005	-0.00004	-0.00003
	CKN	0.00273	0.00286	0.00297

Passive power(pJ) for CKN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNX3H7H	**(D * SE * SI)**	0.00382	0.00385	0.00389
	(D * SE * SI)	-0.00003	-0.00002	-0.00001
	(D * SE * SI)	-0.00000	-0.00000	0.00000
	(D * SE * SI)	0.00467	0.00471	0.00474
	(D * SE * !SI)	0.00339	0.00348	0.00356
	(D * SE * !SI)	-0.00001	-0.00000	0.00000
	(D * SE * !SI)	-0.00001	-0.00001	0.00000
	(D * SE * !SI)	0.00415	0.00423	0.00433
	(D * !SE * SI)	0.00382	0.00385	0.00388
	(D * !SE * SI)	-0.00003	-0.00002	-0.00001
	(D * !SE * SI)	-0.00000	-0.00000	0.00000
	(D * !SE * SI)	0.00469	0.00471	0.00475
	(D * !SE * !SI)	0.00382	0.00385	0.00388
	(D * !SE * !SI)	-0.00003	-0.00002	-0.00001
	(D * !SE * !SI)	-0.00000	-0.00000	0.00000
	(D * !SE * !SI)	0.00469	0.00471	0.00474
	(!D * SE * SI)	0.00382	0.00385	0.00389
	(!D * SE * SI)	-0.00003	-0.00002	-0.00001
	(!D * SE * SI)	-0.00000	-0.00000	0.00000
	(!D * SE * SI)	0.00467	0.00471	0.00474
	(!D * SE * !SI)	0.00339	0.00348	0.00356
	(!D * SE * !SI)	-0.00001	-0.00000	0.00000
	(!D * SE * !SI)	-0.00001	-0.00001	0.00000
	(!D * SE * !SI)	0.00415	0.00423	0.00433
	(!D * !SE * SI)	0.00339	0.00348	0.00356
	(!D * !SE * SI)	-0.00001	-0.00000	0.00000
	(!D * !SE * SI)	-0.00001	-0.00001	0.00000
	(!D * !SE * SI)	0.00415	0.00424	0.00433
	(!D * !SE * !SI)	0.00339	0.00348	0.00356
	(!D * !SE * !SI)	-0.00001	-0.00000	0.00000
	(!D * !SE * !SI)	-0.00001	-0.00001	0.00000
	(!D * !SE * !SI)	0.00415	0.00424	0.00433

Passive power(pJ) for CKN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNX3H7H	**(D * SE * SI)**	0.00268	0.00272	0.00278
	(D * SE * SI)	0.00003	0.00003	0.00003
	(D * SE * SI)	0.00000	0.00000	0.00000
	(D * SE * SI)	0.00188	0.00193	0.00200
	(D * SE * !SI)	0.00284	0.00289	0.00295
	(D * SE * !SI)	0.00000	0.00000	0.00001
	(D * SE * !SI)	0.00003	0.00003	0.00005
	(D * SE * !SI)	0.00199	0.00203	0.00208
	(D * !SE * SI)	0.00268	0.00272	0.00278
	(D * !SE * SI)	0.00003	0.00003	0.00003
	(D * !SE * SI)	0.00000	0.00000	0.00000
	(D * !SE * SI)	0.00188	0.00193	0.00200
	(D * !SE * !SI)	0.00268	0.00272	0.00278
	(D * !SE * !SI)	0.00003	0.00003	0.00003
	(D * !SE * !SI)	0.00000	0.00000	0.00000
	(D * !SE * !SI)	0.00188	0.00193	0.00200
	(!D * SE * SI)	0.00268	0.00272	0.00278
	(!D * SE * SI)	0.00003	0.00003	0.00003
	(!D * SE * SI)	0.00000	0.00000	0.00000
	(!D * SE * SI)	0.00188	0.00193	0.00200
	(!D * SE * !SI)	0.00285	0.00289	0.00295
	(!D * SE * !SI)	0.00000	0.00000	0.00001
	(!D * SE * !SI)	0.00003	0.00003	0.00005
	(!D * SE * !SI)	0.00199	0.00203	0.00208
	(!D * !SE * SI)	0.00285	0.00290	0.00295
	(!D * !SE * SI)	0.00000	0.00000	0.00001
	(!D * !SE * SI)	0.00003	0.00004	0.00005
	(!D * !SE * SI)	0.00199	0.00203	0.00208
	(!D * !SE * !SI)	0.00285	0.00290	0.00295
	(!D * !SE * !SI)	0.00000	0.00000	0.00001
	(!D * !SE * !SI)	0.00003	0.00004	0.00005
	(!D * !SE * !SI)	0.00199	0.00203	0.00208

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNX3H7H	**(CKN * SE * SI)**	-0.00015	-0.00013	-0.00011
	(CKN * SE * SI)	-0.00003	-0.00003	-0.00003
	(CKN * SE * SI)	0.00002	0.00002	0.00002
	(CKN * SE * SI)	0.00031	0.00031	0.00031
	(CKN * SE * !SI)	-0.00015	-0.00013	-0.00011
	(CKN * SE * !SI)	-0.00003	-0.00003	-0.00003
	(CKN * SE * !SI)	0.00002	0.00002	0.00002
	(CKN * SE * !SI)	0.00031	0.00031	0.00031
	(CKN * !SE * SI)	0.00210	0.00212	0.00214
	(CKN * !SE * SI)	0.00019	0.00019	0.00019
	(CKN * !SE * SI)	-0.00016	-0.00015	-0.00015
	(CKN * !SE * SI)	0.00334	0.00337	0.00340
	(CKN * !SE * !SI)	0.00210	0.00213	0.00214
	(CKN * !SE * !SI)	0.00018	0.00019	0.00020
	(CKN * !SE * !SI)	-0.00016	-0.00015	-0.00015
	(CKN * !SE * !SI)	0.00334	0.00337	0.00339
	(!CKN * SE * SI)	-0.00015	-0.00013	-0.00011
	(!CKN * SE * SI)	-0.00003	-0.00003	-0.00003
	(!CKN * SE * SI)	0.00002	0.00002	0.00002
	(!CKN * SE * SI)	0.00031	0.00031	0.00032
	(!CKN * SE * !SI)	-0.00015	-0.00013	-0.00012
	(!CKN * SE * !SI)	-0.00003	-0.00003	-0.00003
	(!CKN * SE * !SI)	0.00002	0.00002	0.00002
	(!CKN * SE * !SI)	0.00031	0.00031	0.00031
	(!CKN * !SE * SI)	0.00033	0.00034	0.00036
	(!CKN * !SE * SI)	0.00020	0.00020	0.00021
	(!CKN * !SE * SI)	-0.00016	-0.00016	-0.00016
	(!CKN * !SE * SI)	0.00165	0.00166	0.00169
	(!CKN * !SE * !SI)	0.00033	0.00034	0.00035
	(!CKN * !SE * !SI)	0.00020	0.00021	0.00022
	(!CKN * !SE * !SI)	-0.00017	-0.00016	-0.00016
	(!CKN * !SE * !SI)	0.00165	0.00167	0.00170

Passive power(pJ) for D falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNX3H7H	**(CKN * SE * SI)**	0.00014	0.00015	0.00015
	(CKN * SE * SI)	0.00003	0.00003	0.00003
	(CKN * SE * SI)	-0.00002	-0.00002	-0.00002
	(CKN * SE * SI)	-0.00031	-0.00030	-0.00030
	(CKN * SE * !SI)	0.00015	0.00015	0.00015
	(CKN * SE * !SI)	0.00003	0.00003	0.00003
	(CKN * SE * !SI)	-0.00002	-0.00002	-0.00002
	(CKN * SE * !SI)	-0.00031	-0.00030	-0.00029
	(CKN * !SE * SI)	0.00270	0.00272	0.00273
	(CKN * !SE * SI)	-0.00019	-0.00019	-0.00019
	(CKN * !SE * SI)	0.00015	0.00015	0.00016
	(CKN * !SE * SI)	0.00145	0.00147	0.00148
	(CKN * !SE * !SI)	0.00269	0.00272	0.00274
	(CKN * !SE * !SI)	-0.00020	-0.00019	-0.00018
	(CKN * !SE * !SI)	0.00015	0.00015	0.00016
	(CKN * !SE * !SI)	0.00145	0.00147	0.00148
	(!CKN * SE * SI)	0.00014	0.00015	0.00015
	(!CKN * SE * SI)	0.00003	0.00003	0.00003
	(!CKN * SE * SI)	-0.00002	-0.00002	-0.00002
	(!CKN * SE * SI)	-0.00031	-0.00030	-0.00030
	(!CKN * SE * !SI)	0.00015	0.00015	0.00016
	(!CKN * SE * !SI)	0.00003	0.00003	0.00003
	(!CKN * SE * !SI)	-0.00002	-0.00002	-0.00002
	(!CKN * SE * !SI)	-0.00031	-0.00030	-0.00029
	(!CKN * !SE * SI)	0.00145	0.00146	0.00148
	(!CKN * !SE * SI)	-0.00021	-0.00020	-0.00020
	(!CKN * !SE * SI)	0.00016	0.00016	0.00016
	(!CKN * !SE * SI)	0.00012	0.00013	0.00014
	(!CKN * !SE * !SI)	0.00145	0.00146	0.00147
	(!CKN * !SE * !SI)	-0.00021	-0.00020	-0.00020
	(!CKN * !SE * !SI)	0.00016	0.00016	0.00017
	(!CKN * !SE * !SI)	0.00011	0.00013	0.00014

Passive power(pJ) for SE rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNX3H7H	**(CKN * D * SI)**	-0.00020	-0.00017	-0.00014
	(CKN * D * SI)	0.00003	0.00003	0.00004
	(CKN * D * SI)	-0.00003	-0.00003	-0.00000
	(CKN * D * SI)	0.00128	0.00131	0.00137
	(CKN * D * !SI)	0.00263	0.00267	0.00275
	(CKN * D * !SI)	-0.00013	-0.00012	-0.00011
	(CKN * D * !SI)	0.00009	0.00010	0.00012
	(CKN * D * !SI)	0.00353	0.00357	0.00361
	(CKN * !D * SI)	0.00148	0.00154	0.00162
	(CKN * !D * SI)	0.00019	0.00019	0.00019
	(CKN * !D * SI)	-0.00017	-0.00017	-0.00016
	(CKN * !D * SI)	0.00355	0.00361	0.00367
	(CKN * !D * !SI)	-0.00014	-0.00011	-0.00006
	(CKN * !D * !SI)	0.00003	0.00004	0.00005
	(CKN * !D * !SI)	-0.00004	-0.00003	-0.00003
	(CKN * !D * !SI)	0.00135	0.00138	0.00143
	(!CKN * D * SI)	-0.00020	-0.00017	-0.00013
	(!CKN * D * SI)	0.00003	0.00003	0.00003
	(!CKN * D * SI)	-0.00003	-0.00003	-0.00002
	(!CKN * D * SI)	0.00128	0.00131	0.00135
	(!CKN * D * !SI)	0.00137	0.00144	0.00152
	(!CKN * D * !SI)	-0.00015	-0.00014	-0.00013
	(!CKN * D * !SI)	0.00010	0.00010	0.00011
	(!CKN * D * !SI)	0.00219	0.00226	0.00233
	(!CKN * !D * SI)	-0.00032	-0.00026	-0.00018
	(!CKN * !D * SI)	0.00021	0.00021	0.00021
	(!CKN * !D * SI)	-0.00017	-0.00017	-0.00016
	(!CKN * !D * SI)	0.00184	0.00189	0.00198
	(!CKN * !D * !SI)	-0.00014	-0.00011	-0.00006
	(!CKN * !D * !SI)	0.00001	0.00003	0.00004
	(!CKN * !D * !SI)	-0.00004	-0.00003	-0.00003
	(!CKN * !D * !SI)	0.00135	0.00138	0.00140

Passive power(pJ) for SE falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNX3H7H	**(CKN * D * SI)**	0.00130	0.00133	0.00136
	(CKN * D * SI)	-0.00004	-0.00003	-0.00002
	(CKN * D * SI)	0.00000	0.00003	0.00004
	(CKN * D * SI)	-0.00017	-0.00015	-0.00010
	(CKN * D * !SI)	0.00364	0.00365	0.00368
	(CKN * D * !SI)	0.00011	0.00012	0.00013
	(CKN * D * !SI)	-0.00011	-0.00010	-0.00009
	(CKN * D * !SI)	0.00274	0.00275	0.00277
	(CKN * !D * SI)	0.00334	0.00338	0.00344
	(CKN * !D * SI)	-0.00019	-0.00018	-0.00016
	(CKN * !D * SI)	0.00017	0.00017	0.00017
	(CKN * !D * SI)	0.00127	0.00132	0.00140
	(CKN * !D * !SI)	0.00122	0.00125	0.00129
	(CKN * !D * !SI)	-0.00005	-0.00003	-0.00002
	(CKN * !D * !SI)	0.00004	0.00004	0.00004
	(CKN * !D * !SI)	-0.00027	-0.00024	-0.00021
	(!CKN * D * SI)	0.00130	0.00132	0.00135
	(!CKN * D * SI)	-0.00003	-0.00003	-0.00002
	(!CKN * D * SI)	0.00002	0.00003	0.00003
	(!CKN * D * SI)	-0.00018	-0.00015	-0.00010
	(!CKN * D * !SI)	0.00187	0.00189	0.00190
	(!CKN * D * !SI)	0.00013	0.00014	0.00016
	(!CKN * D * !SI)	-0.00011	-0.00010	-0.00010
	(!CKN * D * !SI)	0.00105	0.00107	0.00111
	(!CKN * !D * SI)	0.00206	0.00212	0.00218
	(!CKN * !D * SI)	-0.00021	-0.00020	-0.00019
	(!CKN * !D * SI)	0.00017	0.00017	0.00018
	(!CKN * !D * SI)	-0.00009	-0.00004	0.00004
	(!CKN * !D * !SI)	0.00122	0.00125	0.00129
	(!CKN * !D * !SI)	-0.00004	-0.00003	-0.00001
	(!CKN * !D * !SI)	0.00004	0.00004	0.00004
	(!CKN * !D * !SI)	-0.00027	-0.00025	-0.00022

Passive power(pJ) for SI rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNX3H7H	**(CKN * D * SE)**	0.00174	0.00175	0.00176
	(CKN * D * SE)	0.00017	0.00017	0.00018
	(CKN * D * SE)	-0.00016	-0.00015	-0.00014
	(CKN * D * SE)	0.00288	0.00291	0.00293
	(CKN * D * !SE)	-0.00017	-0.00016	-0.00015
	(CKN * D * !SE)	-0.00003	-0.00002	-0.00002
	(CKN * D * !SE)	0.00001	0.00002	0.00002
	(CKN * D * !SE)	0.00024	0.00024	0.00024
	(CKN * !D * SE)	0.00174	0.00175	0.00176
	(CKN * !D * SE)	0.00017	0.00017	0.00018
	(CKN * !D * SE)	-0.00016	-0.00015	-0.00014
	(CKN * !D * SE)	0.00288	0.00291	0.00293
	(CKN * !D * !SE)	-0.00018	-0.00017	-0.00017
	(CKN * !D * !SE)	-0.00003	-0.00003	-0.00002
	(CKN * !D * !SE)	0.00001	0.00002	0.00002
	(CKN * !D * !SE)	0.00022	0.00023	0.00023
	(!CKN * D * SE)	-0.00004	-0.00003	-0.00001
	(!CKN * D * SE)	0.00018	0.00019	0.00019
	(!CKN * D * SE)	-0.00015	-0.00015	-0.00014
	(!CKN * D * SE)	0.00118	0.00120	0.00121
	(!CKN * D * !SE)	-0.00017	-0.00016	-0.00015
	(!CKN * D * !SE)	-0.00003	-0.00002	-0.00002
	(!CKN * D * !SE)	0.00002	0.00002	0.00002
	(!CKN * D * !SE)	0.00024	0.00024	0.00024
	(!CKN * !D * SE)	-0.00004	-0.00003	-0.00001
	(!CKN * !D * SE)	0.00018	0.00019	0.00019
	(!CKN * !D * SE)	-0.00015	-0.00015	-0.00014
	(!CKN * !D * SE)	0.00118	0.00120	0.00121
	(!CKN * !D * !SE)	-0.00018	-0.00017	-0.00017
	(!CKN * !D * !SE)	-0.00003	-0.00003	-0.00002
	(!CKN * !D * !SE)	0.00002	0.00002	0.00002
	(!CKN * !D * !SE)	0.00023	0.00023	0.00023

Passive power(pJ) for SI falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

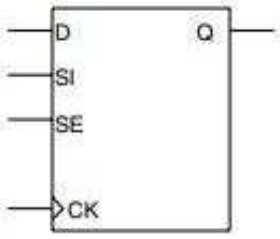
SDFFNX3H7H	**(CKN * D * SE)**	0.00298	0.00300	0.00302
	(CKN * D * SE)	-0.00017	-0.00017	-0.00017
	(CKN * D * SE)	0.00014	0.00015	0.00016
	(CKN * D * SE)	0.00184	0.00186	0.00188
	(CKN * D * !SE)	0.00017	0.00017	0.00017
	(CKN * D * !SE)	0.00002	0.00003	0.00003
	(CKN * D * !SE)	-0.00002	-0.00002	-0.00001
	(CKN * D * !SE)	-0.00024	-0.00023	-0.00022
	(CKN * !D * SE)	0.00298	0.00300	0.00302
	(CKN * !D * SE)	-0.00017	-0.00017	-0.00017
	(CKN * !D * SE)	0.00014	0.00015	0.00016
	(CKN * !D * SE)	0.00184	0.00186	0.00188
	(CKN * !D * !SE)	0.00018	0.00018	0.00019
	(CKN * !D * !SE)	0.00002	0.00003	0.00003
	(CKN * !D * !SE)	-0.00002	-0.00002	-0.00001
	(CKN * !D * !SE)	-0.00022	-0.00021	-0.00020
	(!CKN * D * SE)	0.00173	0.00174	0.00176
	(!CKN * D * SE)	-0.00019	-0.00019	-0.00018
	(!CKN * D * SE)	0.00014	0.00015	0.00015
	(!CKN * D * SE)	0.00051	0.00052	0.00055
	(!CKN * D * !SE)	0.00017	0.00017	0.00017
	(!CKN * D * !SE)	0.00002	0.00002	0.00003
	(!CKN * D * !SE)	-0.00002	-0.00002	-0.00002
	(!CKN * D * !SE)	-0.00024	-0.00023	-0.00022
	(!CKN * !D * SE)	0.00173	0.00175	0.00176
	(!CKN * !D * SE)	-0.00019	-0.00019	-0.00018
	(!CKN * !D * SE)	0.00014	0.00015	0.00015
	(!CKN * !D * SE)	0.00051	0.00052	0.00055
	(!CKN * !D * !SE)	0.00018	0.00018	0.00019
	(!CKN * !D * !SE)	0.00002	0.00003	0.00003
	(!CKN * !D * !SE)	-0.00002	-0.00002	-0.00002
	(!CKN * !D * !SE)	-0.00022	-0.00021	-0.00020

SDFFQX0P5H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The SDFFQ cell is a positive edge-triggered, static D-type flip-flop with scan input (SI) and active-high scan enable (SE). The cell has a single output (Q).



Truth Table

INPUT				OUTPUT
CK	D	SE	SI	Q
R	0	0	x	0
R	x	1	0	0
R	x	1	1	1
R	1	0	x	1
x	x	x	x	IQ

Footprint

Cell Name	Area
SDFFQX0P5H7H	8.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	CK	D	SE	SI	Q
SDFFQX0P5H7H	0.00106	0.00083	0.00222	0.00086	0.04278

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
SDFFQX0P5H7H	0.00000	0.08268	0.09476

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFQX0P5H7H	CK->Q (RR)	SE	0.18688	0.37562	0.82241
	CK->Q (RR)	!SE	0.18690	0.37565	0.82234

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFQX0P5H7H	CK->Q (RF)	SE	0.14284	0.30997	0.68453
	CK->Q (RF)	!SE	0.14284	0.30995	0.68445

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
SDFFQX0P5H7H	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFQX0P5H7H	**hold**	**CK (R)**	-0.27536	-0.10554	0.00931
	setup	**CK (R)**	0.00629	0.12417	0.30081

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFQX0P5H7H	**hold**	**CK (R)**	-0.29975	-0.07886	0.11858
	setup	**CK (R)**	-0.06981	0.13921	0.36897

Constraints(ns) for SE rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFQX0P5H7H	**hold**	**CK (R)**	-0.23157	-0.07423	0.07444
	setup	**CK (R)**	-0.00555	0.16529	0.32056

Constraints(ns) for SE falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFQX0P5H7H	**hold**	**CK (R)**	-0.25809	-0.05165	0.13845
	setup	**CK (R)**	0.03279	0.14761	0.32986

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFQX0P5H7H	hold	CK (R)	-0.27879	-0.10712	0.01156
	setup	CK (R)	0.00822	0.12648	0.30902

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFQX0P5H7H	hold	CK (R)	-0.32710	-0.09938	0.09907
	setup	CK (R)	-0.04824	0.16180	0.39650

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFQX0P5H7H	CK	SE	0.00411	0.00418	0.00425
	CK	SE	0.00007	0.00008	0.00009
	CK	SE	-0.00006	-0.00004	-0.00001
	CK	SE	0.00499	0.00506	0.00513
	CK	!SE	0.00411	0.00418	0.00425
	CK	!SE	0.00007	0.00008	0.00009
	CK	!SE	-0.00006	-0.00004	-0.00002
	CK	!SE	0.00499	0.00506	0.00513

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFQX0P5H7H	CK	SE	0.00416	0.00429	0.00441
	CK	SE	-0.00008	-0.00004	-0.00002
	CK	SE	0.00005	0.00007	0.00009
	CK	SE	0.00482	0.00494	0.00505
	CK	!SE	0.00416	0.00429	0.00441
	CK	!SE	-0.00008	-0.00004	-0.00001
	CK	!SE	0.00006	0.00007	0.00010
	CK	!SE	0.00482	0.00494	0.00505

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFQX0P5H7H	0.00222	0.00227	0.00232
	0.00000	0.00000	0.00000
	0.00002	0.00003	0.00003
	0.00295	0.00300	0.00306

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFQX0P5H7H	0.00462	0.00465	0.00469
	-0.00000	-0.00000	0.00000
	-0.00000	0.00001	0.00001
	0.00379	0.00383	0.00387

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFQX0P5H7H	0.00190	0.00192	0.00194
	0.00017	0.00018	0.00018
	-0.00016	-0.00015	-0.00015
	0.00306	0.00308	0.00309

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFQX0P5H7H	0.00266	0.00268	0.00271
	-0.00018	-0.00018	-0.00017
	0.00015	0.00015	0.00016
	0.00150	0.00151	0.00152

Passive power(pJ) for SE rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFQX0P5H7H	0.00267	0.00271	0.00275
	-0.00013	-0.00012	-0.00012
	0.00009	0.00010	0.00010
	0.00348	0.00352	0.00357

Passive power(pJ) for SE falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFQX0P5H7H	0.00334	0.00335	0.00337
	0.00012	0.00013	0.00014
	-0.00010	-0.00010	-0.00009
	0.00254	0.00255	0.00257

Passive power(pJ) for SI rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFQX0P5H7H	0.00153	0.00154	0.00157
	0.00016	0.00017	0.00017
	-0.00015	-0.00015	-0.00014
	0.00264	0.00266	0.00267

Passive power(pJ) for SI falling :

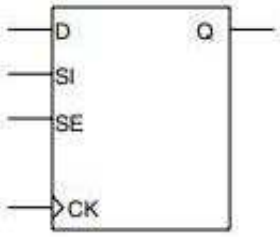
Cell Name	Power(pJ)		
	min	avg	max
SDFFQX0P5H7H	0.00298	0.00301	0.00303
	-0.00017	-0.00017	-0.00016
	0.00014	0.00015	0.00015
	0.00188	0.00190	0.00192

SDFFQX1H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The SDFFQ cell is a positive edge-triggered, static D-type flip-flop with scan input (SI) and active-high scan enable (SE). The cell has a single output (Q).



Truth Table

INPUT				OUTPUT
CK	**D**	**SE**	**SI**	**Q**
R	**0**	**0**	**x**	**0**
R	**x**	**1**	**0**	**0**
R	**x**	**1**	**1**	**1**
R	**1**	**0**	**x**	**1**
x	**x**	**x**	**x**	**IQ**

Footprint

Cell Name	Area
SDFFQX1H7H	9.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	CK	D	SE	SI	Q
SDFFQX1H7H	0.00118	0.00082	0.00229	0.00087	0.05016

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
SDFFQX1H7H	0.00000	0.08835	0.10377

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFQX1H7H	CK->Q (RR)	SE	0.18735	0.37567	0.82315
	CK->Q (RR)	!SE	0.18735	0.37568	0.82327

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFQX1H7H	CK->Q (RF)	SE	0.14277	0.31072	0.69054
	CK->Q (RF)	!SE	0.14266	0.31072	0.69033

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
SDFFQX1H7H	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFQX1H7H	**hold**	**CK (R)**	-0.27134	-0.10366	0.01653
	setup	**CK (R)**	0.00270	0.12183	0.30081

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFQX1H7H	**hold**	**CK (R)**	-0.30297	-0.07776	0.12128
	setup	**CK (R)**	-0.07298	0.13664	0.36957

Constraints(ns) for SE rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFQX1H7H	**hold**	**CK (R)**	-0.23186	-0.07310	0.08157
	setup	**CK (R)**	-0.00870	0.16210	0.31446

Constraints(ns) for SE falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFQX1H7H	**hold**	**CK (R)**	-0.25907	-0.05187	0.14280
	setup	**CK (R)**	0.02918	0.14507	0.32872

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFQX1H7H	hold	CK (R)	-0.27786	-0.10694	0.01249
	setup	CK (R)	0.00500	0.12536	0.30479

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFQX1H7H	hold	CK (R)	-0.32645	-0.09986	0.09811
	setup	CK (R)	-0.05025	0.16043	0.39678

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFQX1H7H	CK	SE	0.00420	0.00426	0.00432
	CK	SE	0.00004	0.00008	0.00008
	CK	SE	-0.00007	-0.00004	-0.00001
	CK	SE	0.00507	0.00515	0.00520
	CK	!SE	0.00419	0.00426	0.00432
	CK	!SE	0.00004	0.00008	0.00011
	CK	!SE	-0.00007	-0.00004	-0.00003
	CK	!SE	0.00509	0.00515	0.00520

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFQX1H7H	CK	SE	0.00434	0.00448	0.00460
	CK	SE	-0.00006	-0.00004	-0.00001
	CK	SE	0.00005	0.00007	0.00010
	CK	SE	0.00500	0.00514	0.00527
	CK	!SE	0.00434	0.00448	0.00462
	CK	!SE	-0.00007	-0.00004	-0.00001
	CK	!SE	0.00005	0.00007	0.00009
	CK	!SE	0.00500	0.00514	0.00526

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFQX1H7H	0.00236	0.00241	0.00247
	0.00000	0.00000	0.00000
	0.00001	0.00002	0.00003
	0.00310	0.00315	0.00322

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFQX1H7H	0.00479	0.00483	0.00486
	0.00000	0.00000	0.00000
	-0.00001	0.00000	0.00001
	0.00398	0.00401	0.00404

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFQX1H7H	0.00191	0.00192	0.00195
	0.00016	0.00017	0.00018
	-0.00015	-0.00015	-0.00014
	0.00307	0.00310	0.00312

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFQX1H7H	0.00268	0.00270	0.00271
	-0.00018	-0.00017	-0.00016
	0.00014	0.00015	0.00017
	0.00151	0.00152	0.00153

Passive power(pJ) for SE rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFQX1H7H	0.00266	0.00271	0.00277
	-0.00013	-0.00012	-0.00010
	0.00009	0.00010	0.00013
	0.00349	0.00353	0.00358

Passive power(pJ) for SE falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFQX1H7H	0.00333	0.00335	0.00339
	0.00010	0.00012	0.00013
	-0.00010	-0.00010	-0.00009
	0.00251	0.00253	0.00254

Passive power(pJ) for SI rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFQX1H7H	0.00155	0.00157	0.00159
	0.00016	0.00016	0.00017
	-0.00015	-0.00014	-0.00013
	0.00265	0.00268	0.00270

Passive power(pJ) for SI falling :

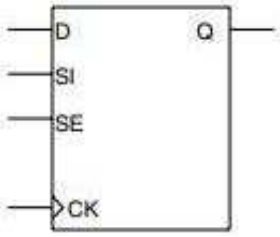
Cell Name	Power(pJ)		
	min	avg	max
SDFFQX1H7H	0.00300	0.00303	0.00305
	-0.00017	-0.00016	-0.00016
	0.00013	0.00014	0.00015
	0.00190	0.00193	0.00195

SDFFQX2H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The SDFFQ cell is a positive edge-triggered, static D-type flip-flop with scan input (SI) and active-high scan enable (SE). The cell has a single output (Q).



Truth Table

INPUT				OUTPUT
CK	D	SE	SI	Q
R	0	0	x	0
R	x	1	0	0
R	x	1	1	1
R	1	0	x	1
x	x	x	x	IQ

Footprint

Cell Name	Area
SDFFQX2H7H	9.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	CK	D	SE	SI	Q
SDFFQX2H7H	0.00114	0.00082	0.00237	0.00093	0.06359

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
SDFFQX2H7H	0.00000	0.10182	0.11263

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFQX2H7H	CK->Q (RR)	SE	0.17743	0.36585	0.81036
	CK->Q (RR)	!SE	0.17746	0.36587	0.81051

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFQX2H7H	CK->Q (RF)	SE	0.14026	0.30377	0.66953
	CK->Q (RF)	!SE	0.14028	0.30379	0.66952

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
SDFFQX2H7H	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFQX2H7H	**hold**	**CK (R)**	-0.27416	-0.10535	0.01072
	setup	**CK (R)**	0.00524	0.12450	0.30146

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFQX2H7H	**hold**	**CK (R)**	-0.30401	-0.08477	0.10893
	setup	**CK (R)**	-0.06694	0.14112	0.37198

Constraints(ns) for SE rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFQX2H7H	**hold**	**CK (R)**	-0.23204	-0.07601	0.07168
	setup	**CK (R)**	-0.00489	0.16222	0.31238

Constraints(ns) for SE falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFQX2H7H	**hold**	**CK (R)**	-0.25375	-0.05861	0.12904
	setup	**CK (R)**	0.03120	0.14502	0.33193

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFQX2H7H	hold	CK (R)	-0.28146	-0.10919	0.00692
	setup	CK (R)	0.01188	0.12856	0.30908

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFQX2H7H	hold	CK (R)	-0.33077	-0.10658	0.08562
	setup	CK (R)	-0.03948	0.16506	0.39784

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFQX2H7H	CK	SE	0.00450	0.00458	0.00466
	CK	SE	0.00007	0.00009	0.00012
	CK	SE	-0.00006	-0.00003	-0.00000
	CK	SE	0.00543	0.00553	0.00560
	CK	!SE	0.00451	0.00459	0.00466
	CK	!SE	0.00007	0.00009	0.00009
	CK	!SE	-0.00007	-0.00004	-0.00000
	CK	!SE	0.00543	0.00554	0.00562

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFQX2H7H	CK	SE	0.00471	0.00488	0.00503
	CK	SE	-0.00007	-0.00004	-0.00000
	CK	SE	0.00004	0.00007	0.00011
	CK	SE	0.00542	0.00559	0.00574
	CK	!SE	0.00471	0.00488	0.00503
	CK	!SE	-0.00007	-0.00004	-0.00001
	CK	!SE	0.00003	0.00007	0.00011
	CK	!SE	0.00542	0.00559	0.00575

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFQX2H7H	0.00239	0.00244	0.00250
	0.00000	0.00000	0.00000
	0.00002	0.00003	0.00004
	0.00318	0.00323	0.00328

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFQX2H7H	0.00490	0.00494	0.00499
	-0.00000	-0.00000	0.00000
	-0.00001	-0.00001	-0.00000
	0.00403	0.00407	0.00411

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFQX2H7H	0.00191	0.00193	0.00194
	0.00016	0.00017	0.00017
	-0.00015	-0.00014	-0.00014
	0.00307	0.00310	0.00312

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFQX2H7H	0.00272	0.00274	0.00275
	-0.00017	-0.00017	-0.00016
	0.00014	0.00014	0.00015
	0.00156	0.00157	0.00158

Passive power(pJ) for SE rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFQX2H7H	0.00266	0.00270	0.00276
	-0.00010	-0.00010	-0.00009
	0.00007	0.00009	0.00010
	0.00356	0.00360	0.00366

Passive power(pJ) for SE falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFQX2H7H	0.00339	0.00341	0.00343
	0.00009	0.00010	0.00012
	-0.00010	-0.00009	-0.00007
	0.00250	0.00252	0.00253

Passive power(pJ) for SI rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFQX2H7H	0.00156	0.00158	0.00159
	0.00015	0.00016	0.00017
	-0.00014	-0.00014	-0.00013
	0.00268	0.00271	0.00274

Passive power(pJ) for SI falling :

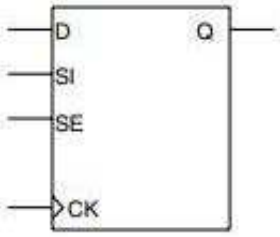
Cell Name	Power(pJ)		
	min	avg	max
SDFFQX2H7H	0.00304	0.00307	0.00309
	-0.00017	-0.00016	-0.00015
	0.00013	0.00014	0.00014
	0.00192	0.00195	0.00198

SDFFQX3H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The SDFFQ cell is a positive edge-triggered, static D-type flip-flop with scan input (SI) and active-high scan enable (SE). The cell has a single output (Q).



Truth Table

INPUT				OUTPUT
CK	D	SE	SI	Q
R	0	0	x	0
R	x	1	0	0
R	x	1	1	1
R	1	0	x	1
x	x	x	x	IQ

Footprint

Cell Name	Area
SDFFQX3H7H	9.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	CK	D	SE	SI	Q
SDFFQX3H7H	0.00125	0.00087	0.00235	0.00088	0.09531

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
SDFFQX3H7H	0.00000	0.11322	0.12555

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFQX3H7H	CK->Q (RR)	SE	0.18086	0.37016	0.81367
	CK->Q (RR)	!SE	0.18087	0.37017	0.81368

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFQX3H7H	CK->Q (RF)	SE	0.14273	0.30806	0.67321
	CK->Q (RF)	!SE	0.14279	0.30806	0.67300

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
SDFFQX3H7H	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFQX3H7H	**hold**	**CK (R)**	-0.27896	-0.10884	0.00220
	setup	**CK (R)**	0.01449	0.12854	0.30643

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFQX3H7H	**hold**	**CK (R)**	-0.30649	-0.08486	0.10683
	setup	**CK (R)**	-0.06123	0.14027	0.37139

Constraints(ns) for SE rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFQX3H7H	**hold**	**CK (R)**	-0.24029	-0.08469	0.05771
	setup	**CK (R)**	0.00747	0.17613	0.32690

Constraints(ns) for SE falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFQX3H7H	**hold**	**CK (R)**	-0.26099	-0.05868	0.12724
	setup	**CK (R)**	0.03960	0.14906	0.33058

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFQX3H7H	hold	CK (R)	-0.28682	-0.11624	-0.00520
	setup	CK (R)	0.02300	0.13681	0.32077

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFQX3H7H	hold	CK (R)	-0.34328	-0.11673	0.07720
	setup	CK (R)	-0.02790	0.17535	0.40962

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFQX3H7H	CK	SE	0.00474	0.00487	0.00501
	CK	SE	0.00005	0.00008	0.00011
	CK	SE	-0.00006	-0.00002	-0.00000
	CK	SE	0.00565	0.00579	0.00592
	CK	!SE	0.00474	0.00487	0.00501
	CK	!SE	0.00005	0.00008	0.00011
	CK	!SE	-0.00003	-0.00002	-0.00001
	CK	!SE	0.00566	0.00579	0.00592

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFQX3H7H	CK	SE	0.00475	0.00493	0.00509
	CK	SE	-0.00002	-0.00002	0.00001
	CK	SE	0.00004	0.00006	0.00008
	CK	SE	0.00551	0.00568	0.00583
	CK	!SE	0.00476	0.00493	0.00509
	CK	!SE	-0.00004	-0.00002	-0.00001
	CK	!SE	0.00004	0.00006	0.00009
	CK	!SE	0.00551	0.00568	0.00583

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFQX3H7H	0.00210	0.00215	0.00221
	0.00000	0.00000	0.00000
	0.00003	0.00003	0.00004
	0.00289	0.00294	0.00299

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFQX3H7H	0.00488	0.00492	0.00496
	-0.00000	-0.00000	0.00000
	-0.00001	-0.00001	-0.00000
	0.00400	0.00404	0.00409

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFQX3H7H	0.00204	0.00206	0.00209
	0.00018	0.00019	0.00019
	-0.00017	-0.00015	-0.00015
	0.00326	0.00330	0.00332

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFQX3H7H	0.00290	0.00293	0.00295
	-0.00019	-0.00019	-0.00018
	0.00015	0.00015	0.00017
	0.00167	0.00168	0.00170

Passive power(pJ) for SE rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFQX3H7H	0.00285	0.00290	0.00297
	-0.00014	-0.00012	-0.00011
	0.00006	0.00009	0.00010
	0.00376	0.00381	0.00387

Passive power(pJ) for SE falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFQX3H7H	0.00360	0.00362	0.00365
	0.00011	0.00012	0.00014
	-0.00010	-0.00009	-0.00006
	0.00268	0.00270	0.00275

Passive power(pJ) for SI rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFQX3H7H	0.00167	0.00168	0.00169
	0.00017	0.00017	0.00018
	-0.00015	-0.00014	-0.00014
	0.00281	0.00282	0.00284

Passive power(pJ) for SI falling :

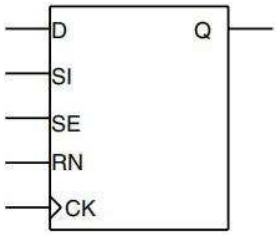
Cell Name	Power(pJ)		
	min	avg	max
SDFFQX3H7H	0.00318	0.00320	0.00323
	-0.00018	-0.00017	-0.00017
	0.00014	0.00015	0.00015
	0.00205	0.00207	0.00209

SDFFRQX0P5H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The SDFFRQ cell is a high-speed, positive edge-triggered, static D-type flip-flop with scan input (SI), active-high scan enable (SE), and asynchronous active-low reset (RN). The cell has a single output (Q).



Truth Table

INPUT					OUTPUT
CK	D	RN	SE	SI	Q
R	0	1	0	x	0
R	x	1	1	0	0
R	x	1	1	1	1
R	1	1	0	x	1
x	x	0	x	x	0
x	x	1	x	x	IQ

Footprint

Cell Name	Area
SDFFRQX0P5H7H	8.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	CK	D	RN	SE	SI	Q
SDFFRQX0P5H7H	0.00103	0.00086	0.00090	0.00230	0.00086	0.04246

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
SDFFRQX0P5H7H	0.00000	0.08462	0.10724

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFRQX0P5H7H	CK->Q (RR)	(RN * SE)	0.18463	0.38630	0.83778
	CK->Q (RR)	(RN * !SE)	0.18455	0.38627	0.83773

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFRQX0P5H7H	CK->Q (RF)	(RN * SE)	0.13260	0.30180	0.67540
	CK->Q (RF)	(RN * !SE)	0.13270	0.30180	0.67543
	RN->Q (FF)	(CK * D * SE * SI)	0.10522	0.29511	0.73575
	RN->Q (FF)	(CK * D * SE * !SI)	0.10522	0.29512	0.73572
	RN->Q (FF)	(CK * D * !SE * SI)	0.10522	0.29513	0.73599
	RN->Q (FF)	(CK * D * !SE * !SI)	0.10522	0.29513	0.73573
	RN->Q (FF)	(CK * !D * SE * SI)	0.10522	0.29514	0.73603
	RN->Q (FF)	(CK * !D * SE * !SI)	0.10522	0.29513	0.73571
	RN->Q (FF)	(CK * !D * !SE * SI)	0.10522	0.29513	0.73572
	RN->Q (FF)	(CK * !D * !SE * !SI)	0.10522	0.29512	0.73573
	RN->Q (FF)	(!CK * D * SE * SI)	0.09995	0.27253	0.68208
	RN->Q (FF)	(!CK * D * SE * !SI)	0.09152	0.26070	0.65963
	RN->Q (FF)	(!CK * D * !SE * SI)	0.09995	0.27252	0.68207
	RN->Q (FF)	(!CK * D * !SE * !SI)	0.09995	0.27252	0.68207
	RN->Q (FF)	(!CK * !D * SE * SI)	0.09995	0.27253	0.68217
	RN->Q (FF)	(!CK * !D * SE * !SI)	0.09152	0.26070	0.65963
	RN->Q (FF)	(!CK * !D * !SE * SI)	0.09152	0.26070	0.65960
	RN->Q (FF)	(!CK * !D * !SE * !SI)	0.09152	0.26070	0.65960

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
SDFFRQX0P5H7H	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRQX0P5H7H	**hold**	**CK (R)**	-0.19944	-0.02024	0.15050
	setup	**CK (R)**	-0.08709	0.10216	0.29524

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRQX0P5H7H	**hold**	**CK (R)**	-0.30889	-0.13426	-0.01443
	setup	**CK (R)**	0.05047	0.17975	0.36370

Constraints(ns) for RN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRQX0P5H7H	**recovery**	**CK (R)**	-0.23291	-0.01430	0.25956
	removal	**CK (R)**	0.10791	0.17650	0.31620

Min Pulse Width (ns) for RN:

Cell Name	High	Low
SDFFRQX0P5H7H	-	0.9851

Constraints(ns) for SE rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRQX0P5H7H	hold	CK (R)	-0.14782	-0.00140	0.15571
	setup	CK (R)	0.08236	0.19228	0.32282

Constraints(ns) for SE falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRQX0P5H7H	hold	CK (R)	-0.20742	-0.04160	0.12595
	setup	CK (R)	0.02358	0.14585	0.30454

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRQX0P5H7H	hold	CK (R)	-0.20847	-0.02440	0.14853
	setup	CK (R)	-0.08624	0.10705	0.30490

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRQX0P5H7H	hold	CK (R)	-0.31751	-0.14145	-0.01942
	setup	CK (R)	0.05569	0.18740	0.37469

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFRQX0P5H7H	CK	(RN * SE)	0.00388	0.00394	0.00402
	CK	(RN * SE)	0.00001	0.00002	0.00004
	CK	(RN * SE)	0.00000	0.00000	0.00000
	CK	(RN * SE)	0.00475	0.00481	0.00487
	CK	(RN * !SE)	0.00391	0.00398	0.00405
	CK	(RN * !SE)	0.00001	0.00002	0.00003
	CK	(RN * !SE)	-0.00001	-0.00000	0.00000
	CK	(RN * !SE)	0.00478	0.00484	0.00491

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

SDFFRQX0P5H7H	CK	(RN * SE)	0.00381	0.00393	0.00403
	CK	(RN * SE)	-0.00004	-0.00002	-0.00001
	CK	(RN * SE)	0.00000	0.00000	0.00000
	CK	(RN * SE)	0.00441	0.00452	0.00462
	CK	(RN * !SE)	0.00384	0.00396	0.00406
	CK	(RN * !SE)	-0.00003	-0.00002	-0.00001
	CK	(RN * !SE)	0.00000	0.00000	0.00001
	CK	(RN * !SE)	0.00444	0.00455	0.00465
	RN	(CK * D * SE * SI)	0.00401	0.00412	0.00421
	RN	(CK * D * SE * SI)	-0.00002	-0.00000	0.00002
	RN	(CK * D * SE * SI)	-0.00004	-0.00001	0.00002
	RN	(CK * D * SE * SI)	0.00337	0.00348	0.00357
	RN	(CK * D * SE * !SI)	0.00401	0.00412	0.00421
	RN	(CK * D * SE * !SI)	-0.00003	-0.00001	0.00003
	RN	(CK * D * SE * !SI)	-0.00004	-0.00001	0.00000
	RN	(CK * D * SE * !SI)	0.00337	0.00348	0.00357
	RN	(CK * D * !SE * SI)	0.00401	0.00412	0.00421
	RN	(CK * D * !SE * SI)	-0.00002	-0.00001	0.00002
	RN	(CK * D * !SE * SI)	-0.00004	-0.00001	0.00002
	RN	(CK * D * !SE * SI)	0.00338	0.00348	0.00357
	RN	(CK * D * !SE * !SI)	0.00401	0.00412	0.00421
	RN	(CK * D * !SE * !SI)	-0.00002	-0.00001	0.00002
	RN	(CK * D * !SE * !SI)	-0.00004	-0.00001	0.00002
	RN	(CK * D * !SE * !SI)	0.00338	0.00348	0.00357
	RN	(CK * !D * SE * SI)	0.00401	0.00412	0.00421
	RN	(CK * !D * SE * SI)	-0.00002	-0.00000	0.00002
	RN	(CK * !D * SE * SI)	-0.00004	-0.00001	0.00002
	RN	(CK * !D * SE * SI)	0.00337	0.00348	0.00357
	RN	(CK * !D * SE * !SI)	0.00401	0.00412	0.00421
	RN	(CK * !D * SE * !SI)	-0.00002	-0.00000	0.00003
	RN	(CK * !D * SE * !SI)	-0.00004	-0.00001	0.00000
	RN	(CK * !D * SE * !SI)	0.00338	0.00348	0.00357
	RN	(CK * !D * !SE * SI)	0.00401	0.00412	0.00421
	RN	(CK * !D * !SE * SI)	-0.00002	-0.00000	0.00003
	RN	(CK * !D * !SE * SI)	-0.00005	-0.00001	-0.00000
	RN	(CK * !D * !SE * SI)	0.00337	0.00348	0.00357
	RN	(CK * !D * !SE * !SI)	0.00401	0.00412	0.00421
	RN	(CK * !D * !SE * !SI)	-0.00001	-0.00000	0.00003
	RN	(CK * !D * !SE * !SI)	-0.00005	-0.00001	-0.00000
	RN	(CK * !D * !SE * !SI)	0.00338	0.00348	0.00357
	RN	(!CK * D * SE * SI)	0.00270	0.00275	0.00281
	RN	(!CK * D * SE * SI)	-0.00010	-0.00008	-0.00005
	RN	(!CK * D * SE * SI)	0.00006	0.00007	0.00009
	RN	(!CK * D * SE * SI)	0.00190	0.00197	0.00203
	RN	(!CK * D * SE * !SI)	0.00254	0.00262	0.00270
	RN	(!CK * D * SE * !SI)	-0.00009	-0.00006	-0.00005
	RN	(!CK * D * SE * !SI)	0.00004	0.00005	0.00005
	RN	(!CK * D * SE * !SI)	0.00179	0.00188	0.00196
	RN	(!CK * D * !SE * SI)	0.00270	0.00275	0.00281
	RN	(!CK * D * !SE * SI)	-0.00010	-0.00008	-0.00005
	RN	(!CK * D * !SE * SI)	0.00006	0.00007	0.00009
	RN	(!CK * D * !SE * SI)	0.00190	0.00197	0.00203
	RN	(!CK * D * !SE * !SI)	0.00270	0.00275	0.00281
	RN	(!CK * D * !SE * !SI)	-0.00010	-0.00008	-0.00005
	RN	(!CK * D * !SE * !SI)	0.00006	0.00007	0.00009
	RN	(!CK * D * !SE * !SI)	0.00190	0.00197	0.00203
	RN	(!CK * !D * SE * SI)	0.00270	0.00275	0.00281
	RN	(!CK * !D * SE * SI)	-0.00010	-0.00008	-0.00005
	RN	(!CK * !D * SE * SI)	0.00006	0.00007	0.00009
	RN	(!CK * !D * SE * SI)	0.00190	0.00197	0.00203
	RN	(!CK * !D * SE * !SI)	0.00254	0.00262	0.00270
	RN	(!CK * !D * SE * !SI)	-0.00009	-0.00006	-0.00005
	RN	(!CK * !D * SE * !SI)	0.00004	0.00005	0.00005
	RN	(!CK * !D * SE * !SI)	0.00179	0.00188	0.00196
	RN	(!CK * !D * !SE * SI)	0.00254	0.00262	0.00270
	RN	(!CK * !D * !SE * SI)	-0.00008	-0.00006	-0.00005
	RN	(!CK * !D * !SE * SI)	0.00004	0.00005	0.00005
	RN	(!CK * !D * !SE * SI)	0.00179	0.00188	0.00196
	RN	(!CK * !D * !SE * !SI)	0.00254	0.00262	0.00270
	RN	(!CK * !D * !SE * !SI)	-0.00008	-0.00006	-0.00005
	RN	(!CK * !D * !SE * !SI)	0.00004	0.00005	0.00005
	RN	(!CK * !D * !SE * !SI)	0.00179	0.00188	0.00196

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFRQX0P5H7H	0.00352	0.00362	0.00370
	0.00001	0.00002	0.00003
	-0.00001	0.00000	0.00000
	0.00424	0.00434	0.00442

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFRQX0P5H7H	0.00453	0.00461	0.00469
	-0.00003	-0.00002	-0.00001
	0.00005	0.00006	0.00007
	0.00372	0.00380	0.00386

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFRQX0P5H7H	0.00211	0.00214	0.00217
	0.00009	0.00010	0.00011
	-0.00006	-0.00006	-0.00006
	0.00326	0.00330	0.00332

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFRQX0P5H7H	0.00297	0.00299	0.00301
	-0.00011	-0.00010	-0.00009
	0.00006	0.00006	0.00006
	0.00186	0.00188	0.00191

Passive power(pJ) for RN rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFRQX0P5H7H	0.00034	0.00034	0.00034
	0.00004	0.00004	0.00004
	0.00000	0.00000	0.00000
	0.00109	0.00109	0.00109

Passive power(pJ) for RN falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFRQX0P5H7H	0.00021	0.00022	0.00022
	0.00001	0.00001	0.00001
	0.00000	0.00000	0.00000
	-0.00030	-0.00029	-0.00027

Passive power(pJ) for SE rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFRQX0P5H7H	0.00298	0.00306	0.00317
	-0.00005	-0.00005	-0.00004
	0.00004	0.00004	0.00006
	0.00378	0.00386	0.00395

Passive power(pJ) for SE falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFRQX0P5H7H	0.00348	0.00350	0.00353
	0.00004	0.00005	0.00005
	-0.00006	-0.00004	-0.00004
	0.00262	0.00265	0.00269

Passive power(pJ) for SI rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFRQX0P5H7H	0.00177	0.00179	0.00181
	0.00009	0.00010	0.00010
	-0.00005	-0.00005	-0.00004
	0.00286	0.00288	0.00289

Passive power(pJ) for SI falling :

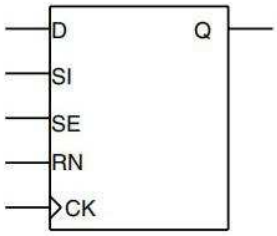
Cell Name	Power(pJ)		
	min	avg	max
SDFFRQX0P5H7H	0.00327	0.00329	0.00330
	-0.00010	-0.00010	-0.00009
	0.00004	0.00005	0.00005
	0.00222	0.00224	0.00227

SDFFRQX1H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The SDFFRQ cell is a high-speed, positive edge-triggered, static D-type flip-flop with scan input (SI), active-high scan enable (SE), and asynchronous active-low reset (RN). The cell has a single output (Q).



Truth Table

INPUT					OUTPUT
CK	D	RN	SE	SI	Q
R	0	1	0	x	0
R	x	1	1	0	0
R	x	1	1	1	1
R	1	1	0	x	1
x	x	0	x	x	0
x	x	1	x	x	IQ

Footprint

Cell Name	Area
SDFFRQX1H7H	9.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	CK	D	RN	SE	SI	Q
SDFFRQX1H7H	0.00102	0.00086	0.00085	0.00226	0.00086	0.05030

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
SDFFRQX1H7H	0.00000	0.08924	0.11881

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFRQX1H7H	CK->Q (RR)	(RN * SE)	0.18103	0.38495	0.84064
	CK->Q (RR)	(RN * !SE)	0.18104	0.38495	0.84064

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFRQX1H7H	CK->Q (RF)	(RN * SE)	0.13006	0.30206	0.68291
	CK->Q (RF)	(RN * !SE)	0.12995	0.30206	0.68295
	RN->Q (FF)	(CK * D * SE * SI)	0.10477	0.29952	0.74903
	RN->Q (FF)	(CK * D * SE * !SI)	0.10476	0.29951	0.74896
	RN->Q (FF)	(CK * D * !SE * SI)	0.10477	0.29951	0.74896
	RN->Q (FF)	(CK * D * !SE * !SI)	0.10477	0.29951	0.74896
	RN->Q (FF)	(CK * !D * SE * SI)	0.10477	0.29952	0.74914
	RN->Q (FF)	(CK * !D * SE * !SI)	0.10476	0.29951	0.74896
	RN->Q (FF)	(CK * !D * !SE * SI)	0.10477	0.29951	0.74887
	RN->Q (FF)	(CK * !D * !SE * !SI)	0.10477	0.29951	0.74887
	RN->Q (FF)	(!CK * D * SE * SI)	0.09927	0.27595	0.69393
	RN->Q (FF)	(!CK * D * SE * !SI)	0.09058	0.26398	0.67161
	RN->Q (FF)	(!CK * D * !SE * SI)	0.09927	0.27595	0.69398
	RN->Q (FF)	(!CK * D * !SE * !SI)	0.09927	0.27594	0.69400
	RN->Q (FF)	(!CK * !D * SE * SI)	0.09927	0.27595	0.69393
	RN->Q (FF)	(!CK * !D * SE * !SI)	0.09058	0.26398	0.67161
	RN->Q (FF)	(!CK * !D * !SE * SI)	0.09058	0.26398	0.67161
	RN->Q (FF)	(!CK * !D * !SE * !SI)	0.09058	0.26398	0.67161

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
SDFFRQX1H7H	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRQX1H7H	**hold**	**CK (R)**	-0.19833	-0.01991	0.14910
	setup	**CK (R)**	-0.09099	0.09956	0.29130

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRQX1H7H	**hold**	**CK (R)**	-0.31014	-0.13289	-0.00984
	setup	**CK (R)**	0.04685	0.17712	0.36281

Constraints(ns) for RN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRQX1H7H	**recovery**	**CK (R)**	-0.23719	-0.01486	0.26074
	removal	**CK (R)**	0.10862	0.17881	0.31755

Min Pulse Width (ns) for RN:

Cell Name	High	Low
SDFFRQX1H7H	-	0.9851

Constraints(ns) for SE rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRQX1H7H	hold	CK (R)	-0.14762	-0.00114	0.15626
	setup	CK (R)	0.07758	0.18921	0.32365

Constraints(ns) for SE falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRQX1H7H	hold	CK (R)	-0.20801	-0.04110	0.12777
	setup	CK (R)	0.01961	0.14277	0.30257

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRQX1H7H	hold	CK (R)	-0.20626	-0.02396	0.14703
	setup	CK (R)	-0.08788	0.10448	0.30293

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRQX1H7H	hold	CK (R)	-0.32043	-0.14038	-0.01946
	setup	CK (R)	0.05279	0.18468	0.37369

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFRQX1H7H	CK	(RN * SE)	0.00398	0.00405	0.00412
	CK	(RN * SE)	0.00000	0.00002	0.00004
	CK	(RN * SE)	-0.00002	-0.00000	0.00000
	CK	(RN * SE)	0.00482	0.00488	0.00495
	CK	(RN * !SE)	0.00401	0.00408	0.00415
	CK	(RN * !SE)	0.00000	0.00002	0.00006
	CK	(RN * !SE)	-0.00001	-0.00000	0.00000
	CK	(RN * !SE)	0.00485	0.00491	0.00499

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

SDFFRQX1H7H	CK	(RN * SE)	0.00388	0.00401	0.00411
	CK	(RN * SE)	-0.00004	-0.00002	0.00000
	CK	(RN * SE)	0.00000	0.00000	0.00002
	CK	(RN * SE)	0.00447	0.00460	0.00471
	CK	(RN * !SE)	0.00392	0.00404	0.00415
	CK	(RN * !SE)	-0.00006	-0.00002	0.00000
	CK	(RN * !SE)	0.00000	0.00000	0.00001
	CK	(RN * !SE)	0.00451	0.00463	0.00473
	RN	(CK * D * SE * SI)	0.00409	0.00419	0.00428
	RN	(CK * D * SE * SI)	-0.00003	-0.00001	0.00002
	RN	(CK * D * SE * SI)	-0.00004	-0.00001	0.00000
	RN	(CK * D * SE * SI)	0.00348	0.00359	0.00368
	RN	(CK * D * SE * !SI)	0.00409	0.00419	0.00428
	RN	(CK * D * SE * !SI)	-0.00001	-0.00000	0.00002
	RN	(CK * D * SE * !SI)	-0.00004	-0.00001	-0.00000
	RN	(CK * D * SE * !SI)	0.00348	0.00359	0.00368
	RN	(CK * D * !SE * SI)	0.00409	0.00419	0.00428
	RN	(CK * D * !SE * SI)	-0.00002	-0.00000	0.00002
	RN	(CK * D * !SE * SI)	-0.00004	-0.00001	0.00000
	RN	(CK * D * !SE * SI)	0.00348	0.00359	0.00368
	RN	(CK * D * !SE * !SI)	0.00409	0.00419	0.00428
	RN	(CK * D * !SE * !SI)	-0.00003	-0.00001	0.00002
	RN	(CK * D * !SE * !SI)	-0.00005	-0.00001	0.00000
	RN	(CK * D * !SE * !SI)	0.00348	0.00359	0.00368
	RN	(CK * !D * SE * SI)	0.00409	0.00419	0.00428
	RN	(CK * !D * SE * SI)	-0.00002	-0.00000	0.00002
	RN	(CK * !D * SE * SI)	-0.00004	-0.00001	0.00000
	RN	(CK * !D * SE * SI)	0.00348	0.00359	0.00368
	RN	(CK * !D * SE * !SI)	0.00409	0.00419	0.00428
	RN	(CK * !D * SE * !SI)	-0.00002	-0.00000	0.00001
	RN	(CK * !D * SE * !SI)	-0.00004	-0.00001	-0.00000
	RN	(CK * !D * SE * !SI)	0.00348	0.00359	0.00368
	RN	(CK * !D * !SE * SI)	0.00409	0.00419	0.00428
	RN	(CK * !D * !SE * SI)	-0.00002	-0.00000	0.00001
	RN	(CK * !D * !SE * SI)	-0.00004	-0.00001	-0.00000
	RN	(CK * !D * !SE * SI)	0.00348	0.00359	0.00368
	RN	(CK * !D * !SE * !SI)	0.00409	0.00419	0.00428
	RN	(CK * !D * !SE * !SI)	-0.00004	-0.00000	0.00002
	RN	(CK * !D * !SE * !SI)	-0.00004	-0.00001	-0.00001
	RN	(CK * !D * !SE * !SI)	0.00348	0.00359	0.00368
	RN	(!CK * D * SE * SI)	0.00273	0.00279	0.00284
	RN	(!CK * D * SE * SI)	-0.00010	-0.00007	-0.00004
	RN	(!CK * D * SE * SI)	0.00007	0.00007	0.00008
	RN	(!CK * D * SE * SI)	0.00197	0.00204	0.00211
	RN	(!CK * D * SE * !SI)	0.00257	0.00265	0.00273
	RN	(!CK * D * SE * !SI)	-0.00009	-0.00006	-0.00003
	RN	(!CK * D * SE * !SI)	0.00004	0.00004	0.00006
	RN	(!CK * D * SE * !SI)	0.00187	0.00195	0.00203
	RN	(!CK * D * !SE * SI)	0.00273	0.00279	0.00284
	RN	(!CK * D * !SE * SI)	-0.00010	-0.00007	-0.00004
	RN	(!CK * D * !SE * SI)	0.00007	0.00007	0.00008
	RN	(!CK * D * !SE * SI)	0.00197	0.00204	0.00211
	RN	(!CK * D * !SE * !SI)	0.00273	0.00279	0.00284
	RN	(!CK * D * !SE * !SI)	-0.00010	-0.00007	-0.00004
	RN	(!CK * D * !SE * !SI)	0.00007	0.00007	0.00008
	RN	(!CK * D * !SE * !SI)	0.00197	0.00204	0.00211
	RN	(!CK * !D * SE * SI)	0.00273	0.00279	0.00284
	RN	(!CK * !D * SE * SI)	-0.00010	-0.00007	-0.00004
	RN	(!CK * !D * SE * SI)	0.00007	0.00007	0.00008
	RN	(!CK * !D * SE * SI)	0.00197	0.00204	0.00211
	RN	(!CK * !D * SE * !SI)	0.00257	0.00265	0.00273
	RN	(!CK * !D * SE * !SI)	-0.00009	-0.00006	-0.00003
	RN	(!CK * !D * SE * !SI)	0.00004	0.00004	0.00006
	RN	(!CK * !D * SE * !SI)	0.00187	0.00195	0.00203
	RN	(!CK * !D * !SE * SI)	0.00257	0.00265	0.00273
	RN	(!CK * !D * !SE * SI)	-0.00009	-0.00006	-0.00003
	RN	(!CK * !D * !SE * SI)	0.00004	0.00004	0.00006
	RN	(!CK * !D * !SE * SI)	0.00187	0.00195	0.00203
	RN	(!CK * !D * !SE * !SI)	0.00257	0.00265	0.00273
	RN	(!CK * !D * !SE * !SI)	-0.00009	-0.00006	-0.00003
	RN	(!CK * !D * !SE * !SI)	0.00004	0.00004	0.00006
	RN	(!CK * !D * !SE * !SI)	0.00187	0.00195	0.00203

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFRQX1H7H	0.00357	0.00367	0.00375
	0.00001	0.00002	0.00002
	-0.00001	0.00001	0.00001
	0.00427	0.00437	0.00445

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFRQX1H7H	0.00455	0.00463	0.00470
	-0.00002	-0.00002	-0.00001
	0.00006	0.00006	0.00007
	0.00376	0.00383	0.00390

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFRQX1H7H	0.00216	0.00219	0.00223
	0.00009	0.00010	0.00010
	-0.00006	-0.00006	-0.00005
	0.00330	0.00333	0.00336

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFRQX1H7H	0.00302	0.00304	0.00306
	-0.00010	-0.00010	-0.00009
	0.00005	0.00006	0.00006
	0.00192	0.00194	0.00197

Passive power(pJ) for RN rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFRQX1H7H	0.00037	0.00037	0.00037
	0.00005	0.00005	0.00005
	0.00000	0.00000	0.00000
	0.00110	0.00111	0.00112

Passive power(pJ) for RN falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFRQX1H7H	0.00020	0.00021	0.00021
	0.00001	0.00001	0.00001
	0.00000	0.00000	0.00000
	-0.00029	-0.00028	-0.00026

Passive power(pJ) for SE rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFRQX1H7H	0.00304	0.00313	0.00322
	-0.00006	-0.00005	-0.00004
	0.00003	0.00004	0.00007
	0.00384	0.00391	0.00399

Passive power(pJ) for SE falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFRQX1H7H	0.00352	0.00354	0.00357
	0.00004	0.00005	0.00006
	-0.00004	-0.00004	-0.00003
	0.00267	0.00270	0.00274

Passive power(pJ) for SI rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFRQX1H7H	0.00183	0.00184	0.00186
	0.00009	0.00010	0.00011
	-0.00006	-0.00005	-0.00005
	0.00290	0.00292	0.00294

Passive power(pJ) for SI falling :

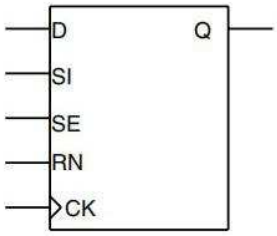
Cell Name	Power(pJ)		
	min	avg	max
SDFFRQX1H7H	0.00331	0.00333	0.00336
	-0.00011	-0.00010	-0.00009
	0.00005	0.00005	0.00006
	0.00228	0.00230	0.00232

SDFFRQX2H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The SDFFRQ cell is a high-speed, positive edge-triggered, static D-type flip-flop with scan input (SI), active-high scan enable (SE), and asynchronous active-low reset (RN). The cell has a single output (Q).



Truth Table

INPUT					OUTPUT
CK	D	RN	SE	SI	Q
R	0	1	0	x	0
R	x	1	1	0	0
R	x	1	1	1	1
R	1	1	0	x	1
x	x	0	x	x	0
x	x	1	x	x	IQ

Footprint

Cell Name	Area
SDFFRQX2H7H	9.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	CK	D	RN	SE	SI	Q
SDFFRQX2H7H	0.00110	0.00086	0.00086	0.00233	0.00086	0.05634

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
SDFFRQX2H7H	0.00000	0.10039	0.13055

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFRQX2H7H	CK->Q (RR)	(RN * SE)	0.18012	0.38193	0.83006
	CK->Q (RR)	(RN * !SE)	0.18012	0.38193	0.83010

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFRQX2H7H	CK->Q (RF)	(RN * SE)	0.12679	0.28413	0.62683
	CK->Q (RF)	(RN * !SE)	0.12680	0.28412	0.62684
	RN->Q (FF)	(CK * D * SE * SI)	0.10994	0.29153	0.71038
	RN->Q (FF)	(CK * D * SE * !SI)	0.11002	0.29153	0.71026
	RN->Q (FF)	(CK * D * !SE * SI)	0.10993	0.29153	0.71026
	RN->Q (FF)	(CK * D * !SE * !SI)	0.10993	0.29153	0.71026
	RN->Q (FF)	(CK * !D * SE * SI)	0.10994	0.29153	0.71034
	RN->Q (FF)	(CK * !D * SE * !SI)	0.11002	0.29153	0.71021
	RN->Q (FF)	(CK * !D * !SE * SI)	0.11002	0.29153	0.71023
	RN->Q (FF)	(CK * !D * !SE * !SI)	0.11002	0.29153	0.71023
	RN->Q (FF)	(!CK * D * SE * SI)	0.10471	0.27017	0.65824
	RN->Q (FF)	(!CK * D * SE * !SI)	0.09585	0.25805	0.63632
	RN->Q (FF)	(!CK * D * !SE * SI)	0.10471	0.27016	0.65823
	RN->Q (FF)	(!CK * D * !SE * !SI)	0.10471	0.27017	0.65824
	RN->Q (FF)	(!CK * !D * SE * SI)	0.10471	0.27017	0.65828
	RN->Q (FF)	(!CK * !D * SE * !SI)	0.09585	0.25806	0.63629
	RN->Q (FF)	(!CK * !D * !SE * SI)	0.09585	0.25805	0.63626
	RN->Q (FF)	(!CK * !D * !SE * !SI)	0.09585	0.25806	0.63625

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
SDFFRQX2H7H	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRQX2H7H	**hold**	**CK (R)**	-0.20239	-0.02458	0.14270
	setup	**CK (R)**	-0.08334	0.10524	0.29751

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRQX2H7H	**hold**	**CK (R)**	-0.30758	-0.13521	-0.02035
	setup	**CK (R)**	0.05521	0.18039	0.36398

Constraints(ns) for RN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRQX2H7H	**recovery**	**CK (R)**	-0.22193	-0.00245	0.29336
	removal	**CK (R)**	0.10146	0.16791	0.30626

Min Pulse Width (ns) for RN:

Cell Name	High	Low
SDFFRQX2H7H	-	0.9851

Constraints(ns) for SE rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRQX2H7H	hold	CK (R)	-0.15382	-0.00742	0.14512
	setup	CK (R)	0.08540	0.18826	0.31447

Constraints(ns) for SE falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRQX2H7H	hold	CK (R)	-0.20051	-0.04061	0.12484
	setup	CK (R)	0.02467	0.14721	0.30717

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRQX2H7H	hold	CK (R)	-0.21023	-0.02908	0.13857
	setup	CK (R)	-0.07824	0.11081	0.30771

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRQX2H7H	hold	CK (R)	-0.31942	-0.14254	-0.02564
	setup	CK (R)	0.06278	0.18755	0.37498

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFRQX2H7H	CK	(RN * SE)	0.00428	0.00436	0.00447
	CK	(RN * SE)	0.00000	0.00002	0.00002
	CK	(RN * SE)	0.00000	0.00000	0.00000
	CK	(RN * SE)	0.00517	0.00526	0.00536
	CK	(RN * !SE)	0.00432	0.00440	0.00451
	CK	(RN * !SE)	0.00000	0.00002	0.00003
	CK	(RN * !SE)	-0.00000	-0.00000	0.00000
	CK	(RN * !SE)	0.00521	0.00530	0.00540

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

SDFFRQX2H7H	CK	(RN * SE)	0.00427	0.00442	0.00454
	CK	(RN * SE)	-0.00002	-0.00002	0.00000
	CK	(RN * SE)	0.00000	0.00000	0.00000
	CK	(RN * SE)	0.00494	0.00508	0.00521
	CK	(RN * !SE)	0.00431	0.00446	0.00458
	CK	(RN * !SE)	-0.00003	-0.00002	-0.00000
	CK	(RN * !SE)	0.00000	0.00000	0.00000
	CK	(RN * !SE)	0.00498	0.00512	0.00525
	RN	(CK * D * SE * SI)	0.00447	0.00459	0.00470
	RN	(CK * D * SE * SI)	-0.00003	-0.00001	0.00001
	RN	(CK * D * SE * SI)	-0.00002	-0.00001	-0.00000
	RN	(CK * D * SE * SI)	0.00385	0.00397	0.00407
	RN	(CK * D * SE * !SI)	0.00447	0.00459	0.00469
	RN	(CK * D * SE * !SI)	-0.00003	-0.00001	0.00001
	RN	(CK * D * SE * !SI)	-0.00002	-0.00001	-0.00000
	RN	(CK * D * SE * !SI)	0.00385	0.00397	0.00408
	RN	(CK * D * !SE * SI)	0.00447	0.00459	0.00470
	RN	(CK * D * !SE * SI)	-0.00003	-0.00001	0.00001
	RN	(CK * D * !SE * SI)	-0.00002	-0.00001	-0.00000
	RN	(CK * D * !SE * SI)	0.00385	0.00397	0.00407
	RN	(CK * D * !SE * !SI)	0.00447	0.00459	0.00470
	RN	(CK * D * !SE * !SI)	-0.00003	-0.00001	0.00001
	RN	(CK * D * !SE * !SI)	-0.00002	-0.00001	-0.00000
	RN	(CK * D * !SE * !SI)	0.00385	0.00397	0.00407
	RN	(CK * !D * SE * SI)	0.00447	0.00459	0.00470
	RN	(CK * !D * SE * SI)	-0.00003	-0.00001	0.00001
	RN	(CK * !D * SE * SI)	-0.00002	-0.00001	-0.00000
	RN	(CK * !D * SE * SI)	0.00385	0.00397	0.00407
	RN	(CK * !D * SE * !SI)	0.00447	0.00459	0.00469
	RN	(CK * !D * SE * !SI)	-0.00003	-0.00001	0.00001
	RN	(CK * !D * SE * !SI)	-0.00002	-0.00001	-0.00001
	RN	(CK * !D * SE * !SI)	0.00385	0.00397	0.00408
	RN	(CK * !D * !SE * SI)	0.00447	0.00459	0.00469
	RN	(CK * !D * !SE * SI)	-0.00003	-0.00001	0.00001
	RN	(CK * !D * !SE * SI)	-0.00003	-0.00001	-0.00001
	RN	(CK * !D * !SE * SI)	0.00385	0.00397	0.00407
	RN	(CK * !D * !SE * !SI)	0.00447	0.00459	0.00469
	RN	(CK * !D * !SE * !SI)	-0.00003	-0.00001	0.00001
	RN	(CK * !D * !SE * !SI)	-0.00002	-0.00001	0.00001
	RN	(CK * !D * !SE * !SI)	0.00385	0.00397	0.00407
	RN	(!CK * D * SE * SI)	0.00306	0.00313	0.00321
	RN	(!CK * D * SE * SI)	-0.00010	-0.00007	-0.00005
	RN	(!CK * D * SE * SI)	0.00005	0.00007	0.00009
	RN	(!CK * D * SE * SI)	0.00229	0.00237	0.00245
	RN	(!CK * D * SE * !SI)	0.00289	0.00299	0.00309
	RN	(!CK * D * SE * !SI)	-0.00008	-0.00005	-0.00002
	RN	(!CK * D * SE * !SI)	0.00004	0.00004	0.00007
	RN	(!CK * D * SE * !SI)	0.00218	0.00228	0.00238
	RN	(!CK * D * !SE * SI)	0.00306	0.00313	0.00321
	RN	(!CK * D * !SE * SI)	-0.00010	-0.00007	-0.00005
	RN	(!CK * D * !SE * SI)	0.00005	0.00007	0.00009
	RN	(!CK * D * !SE * SI)	0.00229	0.00237	0.00245
	RN	(!CK * D * !SE * !SI)	0.00306	0.00313	0.00321
	RN	(!CK * D * !SE * !SI)	-0.00010	-0.00007	-0.00005
	RN	(!CK * D * !SE * !SI)	0.00005	0.00007	0.00009
	RN	(!CK * D * !SE * !SI)	0.00229	0.00237	0.00245
	RN	(!CK * !D * SE * SI)	0.00306	0.00313	0.00321
	RN	(!CK * !D * SE * SI)	-0.00010	-0.00007	-0.00005
	RN	(!CK * !D * SE * SI)	0.00005	0.00007	0.00009
	RN	(!CK * !D * SE * SI)	0.00229	0.00237	0.00245
	RN	(!CK * !D * SE * !SI)	0.00289	0.00299	0.00309
	RN	(!CK * !D * SE * !SI)	-0.00008	-0.00005	-0.00002
	RN	(!CK * !D * SE * !SI)	0.00004	0.00004	0.00007
	RN	(!CK * !D * SE * !SI)	0.00218	0.00228	0.00238
	RN	(!CK * !D * !SE * SI)	0.00289	0.00299	0.00309
	RN	(!CK * !D * !SE * SI)	-0.00008	-0.00005	-0.00002
	RN	(!CK * !D * !SE * SI)	0.00004	0.00004	0.00007
	RN	(!CK * !D * !SE * SI)	0.00218	0.00228	0.00238
	RN	(!CK * !D * !SE * !SI)	0.00289	0.00299	0.00309
	RN	(!CK * !D * !SE * !SI)	-0.00008	-0.00005	-0.00002
	RN	(!CK * !D * !SE * !SI)	0.00004	0.00004	0.00007
	RN	(!CK * !D * !SE * !SI)	0.00218	0.00228	0.00238

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFRQX2H7H	0.00372	0.00383	0.00392
	0.00000	0.00001	0.00002
	0.00000	0.00001	0.00001
	0.00448	0.00458	0.00467

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFRQX2H7H	0.00474	0.00482	0.00489
	-0.00002	-0.00001	-0.00000
	0.00006	0.00006	0.00007
	0.00387	0.00395	0.00403

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFRQX2H7H	0.00224	0.00227	0.00229
	0.00009	0.00010	0.00011
	-0.00006	-0.00005	-0.00005
	0.00337	0.00341	0.00343

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFRQX2H7H	0.00309	0.00312	0.00315
	-0.00011	-0.00010	-0.00009
	0.00005	0.00005	0.00006
	0.00199	0.00202	0.00205

Passive power(pJ) for RN rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFRQX2H7H	0.00038	0.00038	0.00038
	0.00006	0.00006	0.00006
	0.00000	0.00000	0.00000
	0.00115	0.00115	0.00116

Passive power(pJ) for RN falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFRQX2H7H	0.00020	0.00021	0.00021
	0.00001	0.00001	0.00002
	0.00000	0.00000	0.00000
	-0.00030	-0.00029	-0.00028

Passive power(pJ) for SE rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFRQX2H7H	0.00307	0.00315	0.00324
	-0.00005	-0.00004	-0.00003
	0.00001	0.00003	0.00004
	0.00395	0.00402	0.00414

Passive power(pJ) for SE falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFRQX2H7H	0.00365	0.00367	0.00369
	0.00003	0.00004	0.00006
	-0.00004	-0.00003	-0.00001
	0.00272	0.00275	0.00278

Passive power(pJ) for SI rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFRQX2H7H	0.00192	0.00194	0.00197
	0.00008	0.00009	0.00009
	-0.00005	-0.00005	-0.00004
	0.00298	0.00301	0.00302

Passive power(pJ) for SI falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFRQX2H7H	0.00337	0.00339	0.00342
	-0.00009	-0.00009	-0.00008
	0.00004	0.00005	0.00005
	0.00235	0.00237	0.00238

SDFFRX0P5H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Negative Edge Triggered Scan D Flip-Flop with Async Clear
Q = !RN ? 0 : falling (CKN) ? (SE&SI| !SE&D) : prev_Q
QN = !Q

Truth Table

INPUT					OUTPUT	
CK	D	RN	SE	SI	Q	QN
R	0	1	0	x	0	1
R	x	1	1	0	0	1
R	x	1	1	1	1	0
R	1	1	0	x	1	0
x	x	0	x	x	0	1
x	x	1	x	x	IQ	IQN

Footprint

Cell Name	Area
SDFFRX0P5H7H	10.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)	
	CK	D	RN	SE	SI	Q	QN
SDFFRX0P5H7H	0.00108	0.00089	0.00098	0.00219	0.00083	0.04291	0.04282

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
SDFFRX0P5H7H	0.00000	0.09934	0.10230

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFRX0P5H7H	CK->Q (RR)	-	0.24564	0.41901	0.85410

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFRX0P5H7H	CK->Q (RF)	-	0.20969	0.36091	0.72269
	RN->Q (FF)	(CK * D * SE * SI)	0.16959	0.31061	0.64039
	RN->Q (FF)	(CK * D * SE * !SI)	0.16959	0.31061	0.64039
	RN->Q (FF)	(CK * D * !SE * SI)	0.16959	0.31061	0.64039
	RN->Q (FF)	(CK * D * !SE * !SI)	0.16959	0.31061	0.64039
	RN->Q (FF)	(CK * !D * SE * SI)	0.16959	0.31061	0.64039
	RN->Q (FF)	(CK * !D * SE * !SI)	0.16959	0.31061	0.64039
	RN->Q (FF)	(CK * !D * !SE * SI)	0.16959	0.31061	0.64039
	RN->Q (FF)	(CK * !D * !SE * !SI)	0.16959	0.31061	0.64039
	RN->Q (FF)	(!CK * D * SE * SI)	0.15658	0.29693	0.62684
	RN->Q (FF)	(!CK * D * SE * !SI)	0.15357	0.29366	0.62298
	RN->Q (FF)	(!CK * D * !SE * SI)	0.15659	0.29694	0.62689
	RN->Q (FF)	(!CK * D * !SE * !SI)	0.15659	0.29694	0.62689
	RN->Q (FF)	(!CK * !D * SE * SI)	0.15658	0.29693	0.62684
	RN->Q (FF)	(!CK * !D * SE * !SI)	0.15357	0.29366	0.62298
	RN->Q (FF)	(!CK * !D * !SE * SI)	0.15358	0.29366	0.62298
	RN->Q (FF)	(!CK * !D * !SE * !SI)	0.15358	0.29366	0.62298

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFRX0P5H7H	CK->QN (RR)	-	0.15768	0.34505	0.78975
	RN->QN (FR)	(CK * D * SE * SI)	0.11323	0.29500	0.70952
	RN->QN (FR)	(CK * D * SE * !SI)	0.11323	0.29500	0.70949
	RN->QN (FR)	(CK * D * !SE * SI)	0.11323	0.29500	0.70950
	RN->QN (FR)	(CK * D * !SE * !SI)	0.11323	0.29500	0.70950
	RN->QN (FR)	(CK * !D * SE * SI)	0.11323	0.29500	0.70950
	RN->QN (FR)	(CK * !D * SE * !SI)	0.11323	0.29500	0.70949
	RN->QN (FR)	(CK * !D * !SE * SI)	0.11323	0.29500	0.70952
	RN->QN (FR)	(CK * !D * !SE * !SI)	0.11323	0.29499	0.70948
	RN->QN (FR)	(!CK * D * SE * SI)	0.10624	0.27947	0.68906
	RN->QN (FR)	(!CK * D * SE * !SI)	0.10397	0.27645	0.68544
	RN->QN (FR)	(!CK * D * !SE * SI)	0.10624	0.27949	0.68937
	RN->QN (FR)	(!CK * D * !SE * !SI)	0.10624	0.27949	0.68937
	RN->QN (FR)	(!CK * !D * SE * SI)	0.10624	0.27947	0.68871
	RN->QN (FR)	(!CK * !D * SE * !SI)	0.10397	0.27646	0.68544
	RN->QN (FR)	(!CK * !D * !SE * SI)	0.10397	0.27645	0.68542
	RN->QN (FR)	(!CK * !D * !SE * !SI)	0.10397	0.27645	0.68542

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFRX0P5H7H	CK->QN (RF)	-	0.17886	0.36559	0.75681

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
SDFFRX0P5H7H	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRX0P5H7H	**hold**	**CK (R)**	-0.25506	-0.09556	0.00945
	setup	**CK (R)**	0.03409	0.15646	0.34782

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRX0P5H7H	**hold**	**CK (R)**	-0.25566	-0.05983	0.12340
	setup	**CK (R)**	-0.06626	0.13898	0.37273

Min Pulse Width (ns) for RN:

Cell Name	High	Low
SDFFRX0P5H7H	-	0.9851

Constraints(ns) for RN rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRX0P5H7H	**hold**	**CK (R)**	-0.11241	0.03264	0.20664
	setup	**CK (R)**	-0.10868	0.05218	0.19746

Constraints(ns) for SE rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRX0P5H7H	hold	CK (R)	-0.21184	-0.06412	0.08670
	setup	CK (R)	0.03558	0.16869	0.33316

Constraints(ns) for SE falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRX0P5H7H	hold	CK (R)	-0.18374	-0.02411	0.15311
	setup	CK (R)	0.05282	0.17313	0.32817

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRX0P5H7H	hold	CK (R)	-0.26447	-0.10187	0.00493
	setup	CK (R)	0.03993	0.16553	0.36509

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRX0P5H7H	hold	CK (R)	-0.26573	-0.06823	0.11445
	setup	CK (R)	-0.05418	0.15269	0.38867

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFRX0P5H7H	CK	-	0.00224	0.00231	0.00239
	CK	-	-0.00001	-0.00001	-0.00001
	CK	-	0.00001	0.00002	0.00003
	CK	-	0.00256	0.00264	0.00271

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

SDFFRX0P5H7H	CK	-	0.00230	0.00235	0.00240
	CK	-	0.00001	0.00001	0.00001
	CK	-	-0.00003	-0.00002	-0.00001
	CK	-	0.00273	0.00279	0.00283
	RN	(CK * D * SE * SI)	0.00263	0.00269	0.00274
	RN	(CK * D * SE * SI)	-0.00001	0.00000	0.00001
	RN	(CK * D * SE * SI)	-0.00000	0.00000	0.00001
	RN	(CK * D * SE * SI)	0.00230	0.00235	0.00240
	RN	(CK * D * SE * !SI)	0.00264	0.00269	0.00274
	RN	(CK * D * SE * !SI)	-0.00001	-0.00000	0.00001
	RN	(CK * D * SE * !SI)	-0.00000	0.00001	0.00001
	RN	(CK * D * SE * !SI)	0.00230	0.00235	0.00240
	RN	(CK * D * !SE * SI)	0.00263	0.00269	0.00274
	RN	(CK * D * !SE * SI)	-0.00001	-0.00000	0.00001
	RN	(CK * D * !SE * SI)	-0.00000	0.00000	0.00001
	RN	(CK * D * !SE * SI)	0.00229	0.00235	0.00239
	RN	(CK * D * !SE * !SI)	0.00263	0.00269	0.00274
	RN	(CK * D * !SE * !SI)	-0.00001	-0.00000	0.00001
	RN	(CK * D * !SE * !SI)	-0.00000	0.00000	0.00001
	RN	(CK * D * !SE * !SI)	0.00229	0.00235	0.00239
	RN	(CK * !D * SE * SI)	0.00263	0.00269	0.00274
	RN	(CK * !D * SE * SI)	-0.00001	0.00000	0.00001
	RN	(CK * !D * SE * SI)	-0.00000	0.00000	0.00001
	RN	(CK * !D * SE * SI)	0.00230	0.00235	0.00240
	RN	(CK * !D * SE * !SI)	0.00264	0.00269	0.00274
	RN	(CK * !D * SE * !SI)	-0.00001	-0.00000	0.00001
	RN	(CK * !D * SE * !SI)	-0.00000	0.00001	0.00001
	RN	(CK * !D * SE * !SI)	0.00230	0.00235	0.00240
	RN	(CK * !D * !SE * SI)	0.00263	0.00269	0.00274
	RN	(CK * !D * !SE * SI)	-0.00001	0.00000	0.00002
	RN	(CK * !D * !SE * SI)	-0.00001	0.00001	0.00001
	RN	(CK * !D * !SE * SI)	0.00230	0.00235	0.00240
	RN	(CK * !D * !SE * !SI)	0.00263	0.00269	0.00274
	RN	(CK * !D * !SE * !SI)	-0.00002	-0.00000	0.00001
	RN	(CK * !D * !SE * !SI)	0.00000	0.00001	0.00001
	RN	(CK * !D * !SE * !SI)	0.00230	0.00235	0.00240
	RN	(!CK * D * SE * SI)	0.00196	0.00201	0.00205
	RN	(!CK * D * SE * SI)	0.00002	0.00003	0.00003
	RN	(!CK * D * SE * SI)	-0.00004	-0.00003	-0.00002
	RN	(!CK * D * SE * SI)	0.00169	0.00173	0.00178
	RN	(!CK * D * SE * !SI)	0.00195	0.00200	0.00205
	RN	(!CK * D * SE * !SI)	0.00001	0.00002	0.00003
	RN	(!CK * D * SE * !SI)	-0.00003	-0.00003	-0.00003
	RN	(!CK * D * SE * !SI)	0.00166	0.00172	0.00176
	RN	(!CK * D * !SE * SI)	0.00196	0.00201	0.00205
	RN	(!CK * D * !SE * SI)	0.00002	0.00003	0.00004
	RN	(!CK * D * !SE * SI)	-0.00004	-0.00003	-0.00002
	RN	(!CK * D * !SE * SI)	0.00169	0.00173	0.00178
	RN	(!CK * D * !SE * !SI)	0.00196	0.00201	0.00205
	RN	(!CK * D * !SE * !SI)	0.00002	0.00003	0.00003
	RN	(!CK * D * !SE * !SI)	-0.00004	-0.00003	-0.00002
	RN	(!CK * D * !SE * !SI)	0.00169	0.00173	0.00178
	RN	(!CK * !D * SE * SI)	0.00196	0.00201	0.00205
	RN	(!CK * !D * SE * SI)	0.00002	0.00003	0.00003
	RN	(!CK * !D * SE * SI)	-0.00004	-0.00003	-0.00002
	RN	(!CK * !D * SE * SI)	0.00169	0.00173	0.00178
	RN	(!CK * !D * SE * !SI)	0.00195	0.00200	0.00205
	RN	(!CK * !D * SE * !SI)	0.00001	0.00002	0.00003
	RN	(!CK * !D * SE * !SI)	-0.00003	-0.00003	-0.00003
	RN	(!CK * !D * SE * !SI)	0.00166	0.00172	0.00176
	RN	(!CK * !D * !SE * SI)	0.00195	0.00200	0.00205
	RN	(!CK * !D * !SE * SI)	0.00001	0.00002	0.00003
	RN	(!CK * !D * !SE * SI)	-0.00003	-0.00003	-0.00003
	RN	(!CK * !D * !SE * SI)	0.00166	0.00172	0.00176
	RN	(!CK * !D * !SE * !SI)	0.00195	0.00200	0.00205
	RN	(!CK * !D * !SE * !SI)	0.00001	0.00002	0.00003
	RN	(!CK * !D * !SE * !SI)	-0.00003	-0.00003	-0.00003
	RN	(!CK * !D * !SE * !SI)	0.00166	0.00172	0.00176

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

SDFFRX0P5H7H	**CK**	**-**	0.00229	0.00235	0.00240
	CK	**-**	0.00000	0.00001	0.00002
	CK	**-**	-0.00003	-0.00002	-0.00001
	CK	**-**	0.00273	0.00279	0.00283
	RN	**(CK * D * SE * SI)**	0.00264	0.00269	0.00274
	RN	**(CK * D * SE * SI)**	-0.00002	0.00000	0.00002
	RN	**(CK * D * SE * SI)**	-0.00001	0.00000	0.00002
	RN	**(CK * D * SE * SI)**	0.00230	0.00235	0.00240
	RN	**(CK * D * SE * !SI)**	0.00264	0.00269	0.00274
	RN	**(CK * D * SE * !SI)**	-0.00006	-0.00000	0.00002
	RN	**(CK * D * SE * !SI)**	-0.00001	0.00000	0.00002
	RN	**(CK * D * SE * !SI)**	0.00229	0.00235	0.00240
	RN	**(CK * D * !SE * SI)**	0.00264	0.00269	0.00274
	RN	**(CK * D * !SE * SI)**	-0.00002	0.00000	0.00002
	RN	**(CK * D * !SE * SI)**	-0.00000	0.00001	0.00002
	RN	**(CK * D * !SE * SI)**	0.00229	0.00235	0.00240
	RN	**(CK * D * !SE * !SI)**	0.00264	0.00269	0.00274
	RN	**(CK * D * !SE * !SI)**	-0.00002	0.00000	0.00002
	RN	**(CK * D * !SE * !SI)**	-0.00000	0.00001	0.00002
	RN	**(CK * D * !SE * !SI)**	0.00229	0.00235	0.00240
	RN	**(CK * !D * SE * SI)**	0.00263	0.00269	0.00274
	RN	**(CK * !D * SE * SI)**	-0.00002	0.00000	0.00002
	RN	**(CK * !D * SE * SI)**	-0.00001	0.00000	0.00002
	RN	**(CK * !D * SE * SI)**	0.00230	0.00235	0.00240
	RN	**(CK * !D * SE * !SI)**	0.00264	0.00269	0.00274
	RN	**(CK * !D * SE * !SI)**	-0.00006	-0.00000	0.00002
	RN	**(CK * !D * SE * !SI)**	-0.00001	0.00000	0.00002
	RN	**(CK * !D * SE * !SI)**	0.00229	0.00235	0.00240
	RN	**(CK * !D * !SE * SI)**	0.00254	0.00269	0.00274
	RN	**(CK * !D * !SE * SI)**	-0.00002	0.00000	0.00013
	RN	**(CK * !D * !SE * SI)**	-0.00001	0.00001	0.00002
	RN	**(CK * !D * !SE * SI)**	0.00229	0.00235	0.00240
	RN	**(CK * !D * !SE * !SI)**	0.00254	0.00269	0.00274
	RN	**(CK * !D * !SE * !SI)**	-0.00002	0.00000	0.00013
	RN	**(CK * !D * !SE * !SI)**	-0.00001	0.00001	0.00002
	RN	**(CK * !D * !SE * !SI)**	0.00229	0.00235	0.00240
	RN	**(!CK * D * SE * SI)**	0.00195	0.00201	0.00205
	RN	**(!CK * D * SE * SI)**	0.00001	0.00003	0.00004
	RN	**(!CK * D * SE * SI)**	-0.00005	-0.00003	-0.00001
	RN	**(!CK * D * SE * SI)**	0.00168	0.00174	0.00178
	RN	**(!CK * D * SE * !SI)**	0.00195	0.00200	0.00205
	RN	**(!CK * D * SE * !SI)**	0.00002	0.00002	0.00004
	RN	**(!CK * D * SE * !SI)**	-0.00005	-0.00003	-0.00001
	RN	**(!CK * D * SE * !SI)**	0.00166	0.00172	0.00176
	RN	**(!CK * D * !SE * SI)**	0.00195	0.00201	0.00205
	RN	**(!CK * D * !SE * SI)**	0.00002	0.00003	0.00005
	RN	**(!CK * D * !SE * SI)**	-0.00005	-0.00003	-0.00001
	RN	**(!CK * D * !SE * SI)**	0.00167	0.00174	0.00178
	RN	**(!CK * D * !SE * !SI)**	0.00195	0.00201	0.00205
	RN	**(!CK * D * !SE * !SI)**	0.00002	0.00003	0.00005
	RN	**(!CK * D * !SE * !SI)**	-0.00005	-0.00003	-0.00001
	RN	**(!CK * D * !SE * !SI)**	0.00167	0.00173	0.00178
	RN	**(!CK * !D * SE * SI)**	0.00195	0.00201	0.00205
	RN	**(!CK * !D * SE * SI)**	0.00001	0.00003	0.00004
	RN	**(!CK * !D * SE * SI)**	-0.00005	-0.00003	-0.00001
	RN	**(!CK * !D * SE * SI)**	0.00168	0.00174	0.00178
	RN	**(!CK * !D * SE * !SI)**	0.00195	0.00200	0.00205
	RN	**(!CK * !D * SE * !SI)**	0.00002	0.00002	0.00004
	RN	**(!CK * !D * SE * !SI)**	-0.00005	-0.00003	-0.00001
	RN	**(!CK * !D * SE * !SI)**	0.00166	0.00172	0.00176
	RN	**(!CK * !D * !SE * SI)**	0.00194	0.00200	0.00205
	RN	**(!CK * !D * !SE * SI)**	0.00001	0.00002	0.00004
	RN	**(!CK * !D * !SE * SI)**	-0.00004	-0.00003	-0.00002
	RN	**(!CK * !D * !SE * SI)**	0.00167	0.00172	0.00176
	RN	**(!CK * !D * !SE * !SI)**	0.00194	0.00200	0.00205
	RN	**(!CK * !D * !SE * !SI)**	0.00001	0.00002	0.00004
	RN	**(!CK * !D * !SE * !SI)**	-0.00004	-0.00003	-0.00002
	RN	**(!CK * !D * !SE * !SI)**	0.00166	0.00172	0.00176

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFRX0P5H7H	CK	-	0.00224	0.00231	0.00239
	CK	-	-0.00002	-0.00001	0.00000
	CK	-	0.00001	0.00002	0.00003
	CK	-	0.00257	0.00264	0.00271

Passive power(pJ) for CK rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFRX0P5H7H	**(D * RN * SE * SI)**	0.00171	0.00176	0.00182
	(D * RN * SE * SI)	0.00000	0.00001	0.00002
	(D * RN * SE * SI)	0.00000	0.00000	0.00000
	(D * RN * SE * SI)	0.00251	0.00255	0.00260
	(D * RN * SE * !SI)	0.00179	0.00184	0.00189
	(D * RN * SE * !SI)	0.00000	0.00000	0.00000
	(D * RN * SE * !SI)	0.00001	0.00002	0.00002
	(D * RN * SE * !SI)	0.00253	0.00258	0.00265
	(D * RN * !SE * SI)	0.00180	0.00184	0.00190
	(D * RN * !SE * SI)	0.00000	0.00001	0.00002
	(D * RN * !SE * SI)	0.00000	0.00000	0.00000
	(D * RN * !SE * SI)	0.00259	0.00264	0.00271
	(D * RN * !SE * !SI)	0.00180	0.00184	0.00189
	(D * RN * !SE * !SI)	0.00000	0.00001	0.00002
	(D * RN * !SE * !SI)	0.00000	0.00000	0.00000
	(D * RN * !SE * !SI)	0.00259	0.00264	0.00271
	(D * !RN * SE * SI)	0.00309	0.00314	0.00320
	(D * !RN * SE * SI)	-0.00003	-0.00002	-0.00002
	(D * !RN * SE * SI)	0.00003	0.00004	0.00004
	(D * !RN * SE * SI)	0.00380	0.00385	0.00391
	(D * !RN * SE * !SI)	0.00174	0.00179	0.00183
	(D * !RN * SE * !SI)	0.00000	0.00001	0.00002
	(D * !RN * SE * !SI)	0.00001	0.00002	0.00002
	(D * !RN * SE * !SI)	0.00250	0.00255	0.00260
	(D * !RN * !SE * SI)	0.00317	0.00322	0.00329
	(D * !RN * !SE * SI)	-0.00002	-0.00002	-0.00002
	(D * !RN * !SE * SI)	0.00004	0.00004	0.00005
	(D * !RN * !SE * SI)	0.00388	0.00393	0.00398
	(D * !RN * !SE * !SI)	0.00317	0.00322	0.00329
	(D * !RN * !SE * !SI)	-0.00002	-0.00002	-0.00002
	(D * !RN * !SE * !SI)	0.00004	0.00004	0.00005
	(D * !RN * !SE * !SI)	0.00388	0.00393	0.00398
	(!D * RN * SE * SI)	0.00171	0.00176	0.00182
	(!D * RN * SE * SI)	0.00000	0.00001	0.00002
	(!D * RN * SE * SI)	0.00000	0.00000	0.00000
	(!D * RN * SE * SI)	0.00251	0.00255	0.00260
	(!D * RN * SE * !SI)	0.00180	0.00184	0.00189
	(!D * RN * SE * !SI)	0.00000	0.00000	0.00000
	(!D * RN * SE * !SI)	0.00001	0.00002	0.00002
	(!D * RN * SE * !SI)	0.00254	0.00258	0.00265
	(!D * RN * !SE * SI)	0.00188	0.00192	0.00197
	(!D * RN * !SE * SI)	0.00000	0.00000	0.00000
	(!D * RN * !SE * SI)	0.00001	0.00002	0.00002
	(!D * RN * !SE * SI)	0.00262	0.00266	0.00272
	(!D * RN * !SE * !SI)	0.00188	0.00192	0.00197
	(!D * RN * !SE * !SI)	0.00000	0.00000	0.00000
	(!D * RN * !SE * !SI)	0.00001	0.00002	0.00002
	(!D * RN * !SE * !SI)	0.00262	0.00266	0.00272
	(!D * !RN * SE * SI)	0.00309	0.00314	0.00320
	(!D * !RN * SE * SI)	-0.00003	-0.00002	-0.00002
	(!D * !RN * SE * SI)	0.00004	0.00004	0.00005
	(!D * !RN * SE * SI)	0.00380	0.00385	0.00391
	(!D * !RN * SE * !SI)	0.00174	0.00179	0.00183
	(!D * !RN * SE * !SI)	0.00000	0.00001	0.00002
	(!D * !RN * SE * !SI)	0.00001	0.00002	0.00002
	(!D * !RN * SE * !SI)	0.00250	0.00255	0.00260
	(!D * !RN * !SE * SI)	0.00182	0.00187	0.00193
	(!D * !RN * !SE * SI)	0.00000	0.00000	0.00001
	(!D * !RN * !SE * SI)	0.00001	0.00002	0.00002
	(!D * !RN * !SE * SI)	0.00258	0.00263	0.00268
	(!D * !RN * !SE * !SI)	0.00182	0.00187	0.00193
	(!D * !RN * !SE * !SI)	0.00000	0.00001	0.00002
	(!D * !RN * !SE * !SI)	0.00001	0.00002	0.00002
	(!D * !RN * !SE * !SI)	0.00258	0.00263	0.00268

Passive power(pJ) for CK falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFRX0P5H7H	**(D * RN * SE * SI)**	0.00384	0.00391	0.00399
	(D * RN * SE * SI)	-0.00001	-0.00001	-0.00000
	(D * RN * SE * SI)	0.00000	0.00000	0.00000
	(D * RN * SE * SI)	0.00310	0.00317	0.00325
	(D * RN * SE * !SI)	0.00400	0.00404	0.00409
	(D * RN * SE * !SI)	0.00000	0.00000	0.00000
	(D * RN * SE * !SI)	-0.00000	0.00000	0.00001
	(D * RN * SE * !SI)	0.00321	0.00324	0.00329
	(D * RN * !SE * SI)	0.00376	0.00383	0.00390
	(D * RN * !SE * SI)	-0.00001	-0.00001	-0.00000
	(D * RN * !SE * SI)	0.00000	0.00000	0.00000
	(D * RN * !SE * SI)	0.00302	0.00309	0.00317
	(D * RN * !SE * !SI)	0.00376	0.00383	0.00390
	(D * RN * !SE * !SI)	-0.00001	-0.00001	-0.00000
	(D * RN * !SE * !SI)	0.00000	0.00000	0.00000
	(D * RN * !SE * !SI)	0.00302	0.00309	0.00317
	(D * !RN * SE * SI)	0.00279	0.00285	0.00292
	(D * !RN * SE * SI)	0.00012	0.00012	0.00012
	(D * !RN * SE * SI)	-0.00004	-0.00004	-0.00003
	(D * !RN * SE * SI)	0.00225	0.00232	0.00239
	(D * !RN * SE * !SI)	0.00250	0.00254	0.00259
	(D * !RN * SE * !SI)	-0.00001	-0.00001	0.00000
	(D * !RN * SE * !SI)	-0.00002	-0.00001	-0.00001
	(D * !RN * SE * !SI)	0.00174	0.00178	0.00183
	(D * !RN * !SE * SI)	0.00271	0.00277	0.00285
	(D * !RN * !SE * SI)	0.00011	0.00012	0.00012
	(D * !RN * !SE * SI)	-0.00005	-0.00004	-0.00004
	(D * !RN * !SE * SI)	0.00217	0.00224	0.00231
	(D * !RN * !SE * !SI)	0.00271	0.00277	0.00285
	(D * !RN * !SE * !SI)	0.00011	0.00012	0.00012
	(D * !RN * !SE * !SI)	-0.00005	-0.00004	-0.00004
	(D * !RN * !SE * !SI)	0.00217	0.00224	0.00231
	(!D * RN * SE * SI)	0.00384	0.00391	0.00399
	(!D * RN * SE * SI)	-0.00001	-0.00001	-0.00000
	(!D * RN * SE * SI)	0.00000	0.00000	0.00000
	(!D * RN * SE * SI)	0.00310	0.00317	0.00325
	(!D * RN * SE * !SI)	0.00400	0.00404	0.00409
	(!D * RN * SE * !SI)	0.00000	0.00000	0.00000
	(!D * RN * SE * !SI)	-0.00000	0.00000	0.00001
	(!D * RN * SE * !SI)	0.00321	0.00324	0.00329
	(!D * RN * !SE * SI)	0.00392	0.00396	0.00401
	(!D * RN * !SE * SI)	0.00000	0.00000	0.00000
	(!D * RN * !SE * SI)	-0.00000	0.00000	0.00001
	(!D * RN * !SE * SI)	0.00311	0.00316	0.00321
	(!D * RN * !SE * !SI)	0.00392	0.00396	0.00401
	(!D * RN * !SE * !SI)	0.00000	0.00000	0.00000
	(!D * RN * !SE * !SI)	-0.00000	0.00000	0.00001
	(!D * RN * !SE * !SI)	0.00311	0.00316	0.00321
	(!D * !RN * SE * SI)	0.00279	0.00285	0.00292
	(!D * !RN * SE * SI)	0.00012	0.00012	0.00012
	(!D * !RN * SE * SI)	-0.00005	-0.00004	-0.00004
	(!D * !RN * SE * SI)	0.00225	0.00232	0.00239
	(!D * !RN * SE * !SI)	0.00250	0.00254	0.00259
	(!D * !RN * SE * !SI)	-0.00001	-0.00001	0.00000
	(!D * !RN * SE * !SI)	-0.00002	-0.00001	-0.00001
	(!D * !RN * SE * !SI)	0.00174	0.00178	0.00183
	(!D * !RN * !SE * SI)	0.00242	0.00246	0.00252
	(!D * !RN * !SE * SI)	-0.00001	-0.00000	0.00000
	(!D * !RN * !SE * SI)	-0.00002	-0.00002	-0.00001
	(!D * !RN * !SE * SI)	0.00166	0.00170	0.00176
	(!D * !RN * !SE * !SI)	0.00242	0.00246	0.00252
	(!D * !RN * !SE * !SI)	-0.00002	-0.00001	0.00000
	(!D * !RN * !SE * !SI)	-0.00002	-0.00002	-0.00001
	(!D * !RN * !SE * !SI)	0.00166	0.00170	0.00176

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFRX0P5H7H	**(CK * RN * SE * SI)**	-0.00012	-0.00011	-0.00009
	(CK * RN * SE * SI)	-0.00003	-0.00003	-0.00003
	(CK * RN * SE * SI)	0.00002	0.00002	0.00002
	(CK * RN * SE * SI)	0.00033	0.00033	0.00033
	(CK * RN * SE * !SI)	-0.00016	-0.00015	-0.00013
	(CK * RN * SE * !SI)	-0.00003	-0.00003	-0.00003
	(CK * RN * SE * !SI)	0.00002	0.00002	0.00002
	(CK * RN * SE * !SI)	0.00029	0.00029	0.00030
	(CK * RN * !SE * SI)	0.00040	0.00041	0.00043
	(CK * RN * !SE * SI)	0.00017	0.00018	0.00019
	(CK * RN * !SE * SI)	-0.00015	-0.00015	-0.00015
	(CK * RN * !SE * SI)	0.00160	0.00162	0.00166
	(CK * RN * !SE * !SI)	0.00040	0.00041	0.00043
	(CK * RN * !SE * !SI)	0.00017	0.00018	0.00019
	(CK * RN * !SE * !SI)	-0.00015	-0.00015	-0.00015
	(CK * RN * !SE * !SI)	0.00160	0.00162	0.00166
	(CK * !RN * SE * SI)	-0.00012	-0.00011	-0.00009
	(CK * !RN * SE * SI)	-0.00003	-0.00003	-0.00003
	(CK * !RN * SE * SI)	0.00002	0.00002	0.00002
	(CK * !RN * SE * SI)	0.00033	0.00033	0.00033
	(CK * !RN * SE * !SI)	-0.00016	-0.00015	-0.00013
	(CK * !RN * SE * !SI)	-0.00003	-0.00003	-0.00003
	(CK * !RN * SE * !SI)	0.00002	0.00002	0.00002
	(CK * !RN * SE * !SI)	0.00029	0.00029	0.00030
	(CK * !RN * !SE * SI)	0.00040	0.00041	0.00044
	(CK * !RN * !SE * SI)	0.00017	0.00017	0.00018
	(CK * !RN * !SE * SI)	-0.00016	-0.00015	-0.00015
	(CK * !RN * !SE * SI)	0.00160	0.00162	0.00164
	(CK * !RN * !SE * !SI)	0.00040	0.00041	0.00043
	(CK * !RN * !SE * !SI)	0.00017	0.00018	0.00019
	(CK * !RN * !SE * !SI)	-0.00015	-0.00015	-0.00014
	(CK * !RN * !SE * !SI)	0.00160	0.00163	0.00166
	(!CK * RN * SE * SI)	-0.00012	-0.00011	-0.00009
	(!CK * RN * SE * SI)	-0.00003	-0.00003	-0.00003
	(!CK * RN * SE * SI)	0.00002	0.00002	0.00003
	(!CK * RN * SE * SI)	0.00032	0.00033	0.00033
	(!CK * RN * SE * !SI)	-0.00016	-0.00015	-0.00014
	(!CK * RN * SE * !SI)	-0.00003	-0.00003	-0.00003
	(!CK * RN * SE * !SI)	0.00002	0.00002	0.00002
	(!CK * RN * SE * !SI)	0.00029	0.00029	0.00030
	(!CK * RN * !SE * SI)	0.00173	0.00175	0.00176
	(!CK * RN * !SE * SI)	0.00015	0.00016	0.00017
	(!CK * RN * !SE * SI)	-0.00014	-0.00014	-0.00013
	(!CK * RN * !SE * SI)	0.00290	0.00293	0.00295
	(!CK * RN * !SE * !SI)	0.00173	0.00175	0.00176
	(!CK * RN * !SE * !SI)	0.00015	0.00016	0.00017
	(!CK * RN * !SE * !SI)	-0.00015	-0.00014	-0.00014
	(!CK * RN * !SE * !SI)	0.00290	0.00293	0.00295
	(!CK * !RN * SE * SI)	-0.00012	-0.00011	-0.00009
	(!CK * !RN * SE * SI)	-0.00003	-0.00003	-0.00003
	(!CK * !RN * SE * SI)	0.00002	0.00002	0.00002
	(!CK * !RN * SE * SI)	0.00033	0.00033	0.00033
	(!CK * !RN * SE * !SI)	-0.00016	-0.00015	-0.00013
	(!CK * !RN * SE * !SI)	-0.00003	-0.00003	-0.00003
	(!CK * !RN * SE * !SI)	0.00002	0.00002	0.00002
	(!CK * !RN * SE * !SI)	0.00029	0.00030	0.00030
	(!CK * !RN * !SE * SI)	0.00074	0.00076	0.00078
	(!CK * !RN * !SE * SI)	0.00029	0.00029	0.00030
	(!CK * !RN * !SE * SI)	-0.00015	-0.00014	-0.00012
	(!CK * !RN * !SE * SI)	0.00214	0.00217	0.00219
	(!CK * !RN * !SE * !SI)	0.00074	0.00076	0.00078
	(!CK * !RN * !SE * !SI)	0.00029	0.00029	0.00030
	(!CK * !RN * !SE * !SI)	-0.00015	-0.00014	-0.00013
	(!CK * !RN * !SE * !SI)	0.00214	0.00217	0.00219

Passive power(pJ) for D falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFRX0P5H7H	**(CK * RN * SE * SI)**	0.00012	0.00012	0.00012
	(CK * RN * SE * SI)	0.00003	0.00003	0.00003
	(CK * RN * SE * SI)	-0.00002	-0.00002	-0.00002
	(CK * RN * SE * SI)	-0.00033	-0.00032	-0.00031
	(CK * RN * SE * !SI)	0.00016	0.00016	0.00017
	(CK * RN * SE * !SI)	0.00003	0.00003	0.00003
	(CK * RN * SE * !SI)	-0.00002	-0.00002	-0.00002
	(CK * RN * SE * !SI)	-0.00029	-0.00028	-0.00027
	(CK * RN * !SE * SI)	0.00134	0.00136	0.00138
	(CK * RN * !SE * SI)	-0.00018	-0.00018	-0.00017
	(CK * RN * !SE * SI)	0.00015	0.00015	0.00015
	(CK * RN * !SE * SI)	0.00013	0.00015	0.00018
	(CK * RN * !SE * !SI)	0.00134	0.00136	0.00138
	(CK * RN * !SE * !SI)	-0.00018	-0.00017	-0.00017
	(CK * RN * !SE * !SI)	0.00015	0.00015	0.00016
	(CK * RN * !SE * !SI)	0.00013	0.00014	0.00016
	(CK * !RN * SE * SI)	0.00012	0.00012	0.00012
	(CK * !RN * SE * SI)	0.00003	0.00003	0.00003
	(CK * !RN * SE * SI)	-0.00002	-0.00002	-0.00002
	(CK * !RN * SE * SI)	-0.00033	-0.00032	-0.00031
	(CK * !RN * SE * !SI)	0.00016	0.00016	0.00017
	(CK * !RN * SE * !SI)	0.00003	0.00003	0.00003
	(CK * !RN * SE * !SI)	-0.00002	-0.00002	-0.00002
	(CK * !RN * SE * !SI)	-0.00029	-0.00028	-0.00027
	(CK * !RN * !SE * SI)	0.00134	0.00136	0.00138
	(CK * !RN * !SE * SI)	-0.00018	-0.00017	-0.00017
	(CK * !RN * !SE * SI)	0.00015	0.00015	0.00016
	(CK * !RN * !SE * SI)	0.00013	0.00015	0.00017
	(CK * !RN * !SE * !SI)	0.00134	0.00136	0.00140
	(CK * !RN * !SE * !SI)	-0.00019	-0.00018	-0.00017
	(CK * !RN * !SE * !SI)	0.00014	0.00015	0.00015
	(CK * !RN * !SE * !SI)	0.00013	0.00015	0.00018
	(!CK * RN * SE * SI)	0.00012	0.00012	0.00012
	(!CK * RN * SE * SI)	0.00003	0.00003	0.00003
	(!CK * RN * SE * SI)	-0.00002	-0.00002	-0.00002
	(!CK * RN * SE * SI)	-0.00033	-0.00032	-0.00031
	(!CK * RN * SE * !SI)	0.00016	0.00016	0.00017
	(!CK * RN * SE * !SI)	0.00003	0.00003	0.00003
	(!CK * RN * SE * !SI)	-0.00002	-0.00002	-0.00002
	(!CK * RN * SE * !SI)	-0.00029	-0.00028	-0.00027
	(!CK * RN * !SE * SI)	0.00247	0.00249	0.00252
	(!CK * RN * !SE * SI)	-0.00016	-0.00016	-0.00015
	(!CK * RN * !SE * SI)	0.00013	0.00014	0.00014
	(!CK * RN * !SE * SI)	0.00129	0.00131	0.00134
	(!CK * RN * !SE * !SI)	0.00247	0.00249	0.00251
	(!CK * RN * !SE * !SI)	-0.00016	-0.00015	-0.00015
	(!CK * RN * !SE * !SI)	0.00014	0.00014	0.00015
	(!CK * RN * !SE * !SI)	0.00129	0.00131	0.00133
	(!CK * !RN * SE * SI)	0.00012	0.00012	0.00012
	(!CK * !RN * SE * SI)	0.00003	0.00003	0.00003
	(!CK * !RN * SE * SI)	-0.00002	-0.00002	-0.00002
	(!CK * !RN * SE * SI)	-0.00033	-0.00032	-0.00031
	(!CK * !RN * SE * !SI)	0.00016	0.00016	0.00017
	(!CK * !RN * SE * !SI)	0.00003	0.00003	0.00003
	(!CK * !RN * SE * !SI)	-0.00002	-0.00002	-0.00002
	(!CK * !RN * SE * !SI)	-0.00029	-0.00028	-0.00027
	(!CK * !RN * !SE * SI)	0.00262	0.00265	0.00267
	(!CK * !RN * !SE * SI)	-0.00021	-0.00020	-0.00019
	(!CK * !RN * !SE * SI)	0.00012	0.00014	0.00015
	(!CK * !RN * !SE * SI)	0.00142	0.00143	0.00146
	(!CK * !RN * !SE * !SI)	0.00263	0.00265	0.00269
	(!CK * !RN * !SE * !SI)	-0.00020	-0.00018	-0.00018
	(!CK * !RN * !SE * !SI)	0.00013	0.00014	0.00015
	(!CK * !RN * !SE * !SI)	0.00144	0.00145	0.00147

Passive power(pJ) for RN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFRX0P5H7H	**(CK * D * SE * SI)**	0.00005	0.00007	0.00011
	(CK * D * SE * SI)	0.00004	0.00005	0.00006
	(CK * D * SE * SI)	-0.00003	-0.00003	-0.00003
	(CK * D * SE * SI)	0.00083	0.00085	0.00088
	(CK * D * SE * !SI)	0.00005	0.00007	0.00011
	(CK * D * SE * !SI)	0.00004	0.00005	0.00006
	(CK * D * SE * !SI)	-0.00003	-0.00003	-0.00003
	(CK * D * SE * !SI)	0.00083	0.00085	0.00088
	(CK * D * !SE * SI)	0.00005	0.00007	0.00011
	(CK * D * !SE * SI)	0.00004	0.00005	0.00006
	(CK * D * !SE * SI)	-0.00003	-0.00003	-0.00003
	(CK * D * !SE * SI)	0.00083	0.00085	0.00088
	(CK * D * !SE * !SI)	0.00005	0.00007	0.00011
	(CK * D * !SE * !SI)	0.00004	0.00005	0.00006
	(CK * D * !SE * !SI)	-0.00003	-0.00003	-0.00003
	(CK * D * !SE * !SI)	0.00083	0.00085	0.00088
	(CK * !D * SE * SI)	0.00005	0.00007	0.00011
	(CK * !D * SE * SI)	0.00004	0.00005	0.00006
	(CK * !D * SE * SI)	-0.00003	-0.00003	-0.00003
	(CK * !D * SE * SI)	0.00083	0.00085	0.00088
	(CK * !D * SE * !SI)	0.00005	0.00007	0.00011
	(CK * !D * SE * !SI)	0.00004	0.00005	0.00006
	(CK * !D * SE * !SI)	-0.00003	-0.00003	-0.00003
	(CK * !D * SE * !SI)	0.00083	0.00085	0.00088
	(CK * !D * !SE * SI)	0.00005	0.00007	0.00011
	(CK * !D * !SE * SI)	0.00004	0.00005	0.00006
	(CK * !D * !SE * SI)	-0.00003	-0.00003	-0.00003
	(CK * !D * !SE * SI)	0.00083	0.00085	0.00088
	(CK * !D * !SE * !SI)	0.00005	0.00007	0.00011
	(CK * !D * !SE * !SI)	0.00004	0.00005	0.00006
	(CK * !D * !SE * !SI)	-0.00003	-0.00003	-0.00003
	(CK * !D * !SE * !SI)	0.00083	0.00085	0.00088
	(!CK * D * SE * SI)	0.00108	0.00110	0.00112
	(!CK * D * SE * SI)	0.00000	0.00000	0.00000
	(!CK * D * SE * SI)	-0.00000	0.00000	0.00001
	(!CK * D * SE * SI)	0.00165	0.00168	0.00171
	(!CK * D * SE * !SI)	0.00005	0.00007	0.00009
	(!CK * D * SE * !SI)	0.00004	0.00005	0.00006
	(!CK * D * SE * !SI)	-0.00003	-0.00003	-0.00003
	(!CK * D * SE * !SI)	0.00084	0.00086	0.00088
	(!CK * D * !SE * SI)	0.00108	0.00111	0.00113
	(!CK * D * !SE * SI)	0.00000	0.00000	0.00000
	(!CK * D * !SE * SI)	0.00000	0.00000	0.00001
	(!CK * D * !SE * SI)	0.00165	0.00168	0.00171
	(!CK * D * !SE * !SI)	0.00108	0.00110	0.00113
	(!CK * D * !SE * !SI)	0.00000	0.00000	0.00000
	(!CK * D * !SE * !SI)	0.00000	0.00000	0.00001
	(!CK * D * !SE * !SI)	0.00165	0.00168	0.00171
	(!CK * !D * SE * SI)	0.00108	0.00110	0.00112
	(!CK * !D * SE * SI)	0.00000	0.00000	0.00000
	(!CK * !D * SE * SI)	-0.00001	0.00000	0.00001
	(!CK * !D * SE * SI)	0.00165	0.00168	0.00171
	(!CK * !D * SE * !SI)	0.00005	0.00007	0.00009
	(!CK * !D * SE * !SI)	0.00004	0.00005	0.00006
	(!CK * !D * SE * !SI)	-0.00003	-0.00003	-0.00003
	(!CK * !D * SE * !SI)	0.00084	0.00086	0.00088
	(!CK * !D * !SE * SI)	0.00005	0.00007	0.00009
	(!CK * !D * !SE * SI)	0.00004	0.00005	0.00006
	(!CK * !D * !SE * SI)	-0.00003	-0.00003	-0.00003
	(!CK * !D * !SE * SI)	0.00084	0.00086	0.00088
	(!CK * !D * !SE * !SI)	0.00005	0.00007	0.00009
	(!CK * !D * !SE * !SI)	0.00004	0.00005	0.00006
	(!CK * !D * !SE * !SI)	-0.00003	-0.00003	-0.00003
	(!CK * !D * !SE * !SI)	0.00084	0.00086	0.00088

Passive power(pJ) for RN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFRX0P5H7H	**(CK * D * SE * SI)**	0.00089	0.00091	0.00093
	(CK * D * SE * SI)	-0.00006	-0.00005	-0.00004
	(CK * D * SE * SI)	0.00003	0.00003	0.00003
	(CK * D * SE * SI)	0.00010	0.00013	0.00016
	(CK * D * SE * !SI)	0.00089	0.00091	0.00093
	(CK * D * SE * !SI)	-0.00006	-0.00005	-0.00004
	(CK * D * SE * !SI)	0.00003	0.00003	0.00003
	(CK * D * SE * !SI)	0.00010	0.00013	0.00016
	(CK * D * !SE * SI)	0.00089	0.00091	0.00093
	(CK * D * !SE * SI)	-0.00006	-0.00005	-0.00004
	(CK * D * !SE * SI)	0.00003	0.00003	0.00003
	(CK * D * !SE * SI)	0.00011	0.00013	0.00016
	(CK * D * !SE * !SI)	0.00089	0.00091	0.00093
	(CK * D * !SE * !SI)	-0.00006	-0.00005	-0.00004
	(CK * D * !SE * !SI)	0.00003	0.00003	0.00003
	(CK * D * !SE * !SI)	0.00010	0.00013	0.00016
	(CK * !D * SE * SI)	0.00089	0.00091	0.00093
	(CK * !D * SE * SI)	-0.00006	-0.00005	-0.00004
	(CK * !D * SE * SI)	0.00003	0.00003	0.00003
	(CK * !D * SE * SI)	0.00010	0.00013	0.00016
	(CK * !D * SE * !SI)	0.00089	0.00091	0.00093
	(CK * !D * SE * !SI)	-0.00006	-0.00005	-0.00004
	(CK * !D * SE * !SI)	0.00003	0.00003	0.00003
	(CK * !D * SE * !SI)	0.00010	0.00013	0.00016
	(CK * !D * !SE * SI)	0.00089	0.00091	0.00093
	(CK * !D * !SE * SI)	-0.00006	-0.00005	-0.00004
	(CK * !D * !SE * SI)	0.00003	0.00003	0.00003
	(CK * !D * !SE * SI)	0.00010	0.00013	0.00016
	(CK * !D * !SE * !SI)	0.00089	0.00091	0.00093
	(CK * !D * !SE * !SI)	-0.00006	-0.00005	-0.00004
	(CK * !D * !SE * !SI)	0.00003	0.00003	0.00003
	(CK * !D * !SE * !SI)	0.00010	0.00013	0.00016
	(!CK * D * SE * SI)	0.00090	0.00093	0.00096
	(!CK * D * SE * SI)	0.00000	0.00000	0.00000
	(!CK * D * SE * SI)	0.00003	0.00003	0.00004
	(!CK * D * SE * SI)	0.00012	0.00014	0.00016
	(!CK * D * SE * !SI)	0.00088	0.00090	0.00093
	(!CK * D * SE * !SI)	-0.00005	-0.00005	-0.00004
	(!CK * D * SE * !SI)	0.00003	0.00003	0.00003
	(!CK * D * SE * !SI)	0.00010	0.00012	0.00015
	(!CK * D * !SE * SI)	0.00090	0.00093	0.00096
	(!CK * D * !SE * SI)	0.00000	0.00000	0.00000
	(!CK * D * !SE * SI)	0.00003	0.00003	0.00004
	(!CK * D * !SE * SI)	0.00012	0.00014	0.00016
	(!CK * D * !SE * !SI)	0.00090	0.00093	0.00096
	(!CK * D * !SE * !SI)	0.00000	0.00000	0.00000
	(!CK * D * !SE * !SI)	0.00003	0.00003	0.00004
	(!CK * D * !SE * !SI)	0.00012	0.00014	0.00016
	(!CK * !D * SE * SI)	0.00090	0.00093	0.00096
	(!CK * !D * SE * SI)	0.00000	0.00000	0.00000
	(!CK * !D * SE * SI)	0.00003	0.00003	0.00004
	(!CK * !D * SE * SI)	0.00012	0.00014	0.00016
	(!CK * !D * SE * !SI)	0.00088	0.00090	0.00093
	(!CK * !D * SE * !SI)	-0.00005	-0.00005	-0.00004
	(!CK * !D * SE * !SI)	0.00003	0.00003	0.00003
	(!CK * !D * SE * !SI)	0.00010	0.00012	0.00015
	(!CK * !D * !SE * SI)	0.00088	0.00090	0.00093
	(!CK * !D * !SE * SI)	-0.00005	-0.00005	-0.00004
	(!CK * !D * !SE * SI)	0.00003	0.00003	0.00003
	(!CK * !D * !SE * SI)	0.00010	0.00012	0.00015
	(!CK * !D * !SE * !SI)	0.00088	0.00090	0.00093
	(!CK * !D * !SE * !SI)	-0.00005	-0.00005	-0.00004
	(!CK * !D * !SE * !SI)	0.00003	0.00003	0.00003
	(!CK * !D * !SE * !SI)	0.00010	0.00012	0.00015

Passive power(pJ) for SE rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFRX0P5H7H	**(CK * D * RN * SI)**	-0.00018	-0.00015	-0.00011
	(CK * D * RN * SI)	0.00002	0.00003	0.00003
	(CK * D * RN * SI)	-0.00003	-0.00003	-0.00000
	(CK * D * RN * SI)	0.00121	0.00123	0.00126
	(CK * D * RN * !SI)	0.00126	0.00132	0.00138
	(CK * D * RN * !SI)	-0.00013	-0.00012	-0.00010
	(CK * D * RN * !SI)	0.00009	0.00010	0.00011
	(CK * D * RN * !SI)	0.00205	0.00212	0.00219
	(CK * D * !RN * SI)	-0.00018	-0.00015	-0.00011
	(CK * D * !RN * SI)	0.00003	0.00003	0.00003
	(CK * D * !RN * SI)	-0.00003	-0.00003	-0.00001
	(CK * D * !RN * SI)	0.00121	0.00124	0.00129
	(CK * D * !RN * !SI)	0.00126	0.00132	0.00140
	(CK * D * !RN * !SI)	-0.00013	-0.00012	-0.00012
	(CK * D * !RN * !SI)	0.00010	0.00010	0.00011
	(CK * D * !RN * !SI)	0.00205	0.00212	0.00219
	(CK * !D * RN * SI)	-0.00013	-0.00008	-0.00001
	(CK * !D * RN * SI)	0.00018	0.00019	0.00019
	(CK * !D * RN * SI)	-0.00016	-0.00016	-0.00016
	(CK * !D * RN * SI)	0.00185	0.00191	0.00198
	(CK * !D * RN * !SI)	-0.00010	-0.00007	-0.00002
	(CK * !D * RN * !SI)	0.00001	0.00003	0.00003
	(CK * !D * RN * !SI)	-0.00003	-0.00003	-0.00001
	(CK * !D * RN * !SI)	0.00128	0.00130	0.00133
	(CK * !D * !RN * SI)	-0.00013	-0.00008	-0.00001
	(CK * !D * !RN * SI)	0.00018	0.00018	0.00019
	(CK * !D * !RN * SI)	-0.00016	-0.00016	-0.00016
	(CK * !D * !RN * SI)	0.00185	0.00190	0.00196
	(CK * !D * !RN * !SI)	-0.00010	-0.00007	-0.00002
	(CK * !D * !RN * !SI)	0.00001	0.00003	0.00003
	(CK * !D * !RN * !SI)	-0.00003	-0.00003	-0.00001
	(CK * !D * !RN * !SI)	0.00128	0.00130	0.00133
	(!CK * D * RN * SI)	-0.00010	-0.00007	-0.00003
	(!CK * D * RN * SI)	0.00003	0.00003	0.00003
	(!CK * D * RN * SI)	-0.00003	-0.00002	-0.00000
	(!CK * D * RN * SI)	0.00129	0.00132	0.00138
	(!CK * D * RN * !SI)	0.00247	0.00251	0.00257
	(!CK * D * RN * !SI)	-0.00010	-0.00010	-0.00009
	(!CK * D * RN * !SI)	0.00006	0.00008	0.00009
	(!CK * D * RN * !SI)	0.00330	0.00335	0.00342
	(!CK * D * !RN * SI)	-0.00010	-0.00007	-0.00003
	(!CK * D * !RN * SI)	0.00003	0.00003	0.00003
	(!CK * D * !RN * SI)	-0.00004	-0.00003	-0.00001
	(!CK * D * !RN * SI)	0.00129	0.00132	0.00137
	(!CK * D * !RN * !SI)	0.00264	0.00270	0.00277
	(!CK * D * !RN * !SI)	-0.00014	-0.00014	-0.00012
	(!CK * D * !RN * !SI)	0.00012	0.00012	0.00013
	(!CK * D * !RN * !SI)	0.00334	0.00340	0.00349
	(!CK * !D * RN * SI)	0.00129	0.00134	0.00141
	(!CK * !D * RN * SI)	0.00016	0.00017	0.00017
	(!CK * !D * RN * SI)	-0.00015	-0.00014	-0.00013
	(!CK * !D * RN * SI)	0.00325	0.00329	0.00334
	(!CK * !D * RN * !SI)	-0.00002	0.00001	0.00006
	(!CK * !D * RN * !SI)	0.00003	0.00003	0.00003
	(!CK * !D * RN * !SI)	-0.00003	-0.00003	-0.00002
	(!CK * !D * RN * !SI)	0.00136	0.00139	0.00144
	(!CK * !D * !RN * SI)	0.00030	0.00036	0.00042
	(!CK * !D * !RN * SI)	0.00030	0.00030	0.00030
	(!CK * !D * !RN * SI)	-0.00019	-0.00019	-0.00018
	(!CK * !D * !RN * SI)	0.00249	0.00253	0.00259
	(!CK * !D * !RN * !SI)	-0.00002	0.00001	0.00006
	(!CK * !D * !RN * !SI)	0.00001	0.00003	0.00003
	(!CK * !D * !RN * !SI)	-0.00004	-0.00003	-0.00003
	(!CK * !D * !RN * !SI)	0.00136	0.00138	0.00142

Passive power(pJ) for SE falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFRX0P5H7H	**(CK * D * RN * SI)**	0.00128	0.00130	0.00133
	(CK * D * RN * SI)	-0.00003	-0.00002	-0.00001
	(CK * D * RN * SI)	0.00003	0.00003	0.00004
	(CK * D * RN * SI)	-0.00011	-0.00008	-0.00005
	(CK * D * RN * !SI)	0.00186	0.00189	0.00192
	(CK * D * RN * !SI)	0.00012	0.00013	0.00015
	(CK * D * RN * !SI)	-0.00010	-0.00010	-0.00009
	(CK * D * RN * !SI)	0.00107	0.00110	0.00116
	(CK * D * !RN * SI)	0.00128	0.00130	0.00133
	(CK * D * !RN * SI)	-0.00003	-0.00003	-0.00002
	(CK * D * !RN * SI)	0.00001	0.00003	0.00004
	(CK * D * !RN * SI)	-0.00011	-0.00008	-0.00002
	(CK * D * !RN * !SI)	0.00186	0.00189	0.00193
	(CK * D * !RN * !SI)	0.00012	0.00013	0.00014
	(CK * D * !RN * !SI)	-0.00010	-0.00010	-0.00010
	(CK * D * !RN * !SI)	0.00107	0.00110	0.00116
	(CK * !D * RN * SI)	0.00202	0.00207	0.00213
	(CK * !D * RN * SI)	-0.00019	-0.00018	-0.00017
	(CK * !D * RN * SI)	0.00016	0.00016	0.00017
	(CK * !D * RN * SI)	0.00004	0.00009	0.00017
	(CK * !D * RN * !SI)	0.00119	0.00122	0.00125
	(CK * !D * RN * !SI)	-0.00003	-0.00003	-0.00001
	(CK * !D * RN * !SI)	0.00001	0.00003	0.00003
	(CK * !D * RN * !SI)	-0.00019	-0.00016	-0.00010
	(CK * !D * !RN * SI)	0.00202	0.00207	0.00213
	(CK * !D * !RN * SI)	-0.00019	-0.00018	-0.00017
	(CK * !D * !RN * SI)	0.00016	0.00016	0.00017
	(CK * !D * !RN * SI)	0.00004	0.00009	0.00017
	(CK * !D * !RN * !SI)	0.00119	0.00122	0.00126
	(CK * !D * !RN * !SI)	-0.00003	-0.00003	-0.00001
	(CK * !D * !RN * !SI)	0.00001	0.00003	0.00003
	(CK * !D * !RN * !SI)	-0.00019	-0.00016	-0.00011
	(!CK * D * RN * SI)	0.00120	0.00122	0.00126
	(!CK * D * RN * SI)	-0.00003	-0.00003	-0.00002
	(!CK * D * RN * SI)	0.00000	0.00003	0.00003
	(!CK * D * RN * SI)	-0.00019	-0.00016	-0.00010
	(!CK * D * RN * !SI)	0.00310	0.00313	0.00317
	(!CK * D * RN * !SI)	0.00009	0.00010	0.00012
	(!CK * D * RN * !SI)	-0.00009	-0.00008	-0.00006
	(!CK * D * RN * !SI)	0.00228	0.00230	0.00233
	(!CK * D * !RN * SI)	0.00120	0.00122	0.00127
	(!CK * D * !RN * SI)	-0.00003	-0.00003	-0.00003
	(!CK * D * !RN * SI)	0.00002	0.00003	0.00005
	(!CK * D * !RN * SI)	-0.00019	-0.00017	-0.00014
	(!CK * D * !RN * !SI)	0.00211	0.00213	0.00217
	(!CK * D * !RN * !SI)	0.00023	0.00024	0.00025
	(!CK * D * !RN * !SI)	-0.00013	-0.00012	-0.00012
	(!CK * D * !RN * !SI)	0.00151	0.00154	0.00157
	(!CK * !D * RN * SI)	0.00307	0.00313	0.00319
	(!CK * !D * RN * SI)	-0.00017	-0.00016	-0.00016
	(!CK * !D * RN * SI)	0.00015	0.00015	0.00017
	(!CK * !D * RN * SI)	0.00112	0.00117	0.00122
	(!CK * !D * RN * !SI)	0.00111	0.00114	0.00118
	(!CK * !D * RN * !SI)	-0.00003	-0.00003	-0.00003
	(!CK * !D * RN * !SI)	0.00003	0.00003	0.00004
	(!CK * !D * RN * !SI)	-0.00027	-0.00025	-0.00022
	(!CK * !D * !RN * SI)	0.00330	0.00335	0.00342
	(!CK * !D * !RN * SI)	-0.00020	-0.00020	-0.00019
	(!CK * !D * !RN * SI)	0.00018	0.00019	0.00019
	(!CK * !D * !RN * SI)	0.00125	0.00130	0.00137
	(!CK * !D * !RN * !SI)	0.00111	0.00114	0.00119
	(!CK * !D * !RN * !SI)	-0.00003	-0.00003	-0.00001
	(!CK * !D * !RN * !SI)	0.00003	0.00003	0.00004
	(!CK * !D * !RN * !SI)	-0.00027	-0.00025	-0.00023

Passive power(pJ) for SI rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFRX0P5H7H	**(CK * D * RN * SE)**	0.00009	0.00010	0.00011
	(CK * D * RN * SE)	0.00017	0.00017	0.00019
	(CK * D * RN * SE)	-0.00015	-0.00014	-0.00013
	(CK * D * RN * SE)	0.00124	0.00125	0.00128
	(CK * D * RN * !SE)	-0.00018	-0.00017	-0.00015
	(CK * D * RN * !SE)	-0.00002	-0.00002	-0.00002
	(CK * D * RN * !SE)	0.00002	0.00002	0.00002
	(CK * D * RN * !SE)	0.00022	0.00022	0.00022
	(CK * D * !RN * SE)	0.00009	0.00010	0.00011
	(CK * D * !RN * SE)	0.00016	0.00017	0.00017
	(CK * D * !RN * SE)	-0.00015	-0.00015	-0.00014
	(CK * D * !RN * SE)	0.00124	0.00125	0.00126
	(CK * D * !RN * !SE)	-0.00018	-0.00017	-0.00015
	(CK * D * !RN * !SE)	-0.00002	-0.00002	-0.00002
	(CK * D * !RN * !SE)	0.00002	0.00002	0.00002
	(CK * D * !RN * !SE)	0.00022	0.00022	0.00022
	(CK * !D * RN * SE)	0.00009	0.00010	0.00011
	(CK * !D * RN * SE)	0.00017	0.00017	0.00017
	(CK * !D * RN * SE)	-0.00015	-0.00015	-0.00014
	(CK * !D * RN * SE)	0.00124	0.00125	0.00127
	(CK * !D * RN * !SE)	-0.00018	-0.00017	-0.00016
	(CK * !D * RN * !SE)	-0.00003	-0.00003	-0.00002
	(CK * !D * RN * !SE)	0.00001	0.00002	0.00002
	(CK * !D * RN * !SE)	0.00022	0.00022	0.00022
	(CK * !D * !RN * SE)	0.00009	0.00010	0.00011
	(CK * !D * !RN * SE)	0.00017	0.00017	0.00017
	(CK * !D * !RN * SE)	-0.00015	-0.00015	-0.00014
	(CK * !D * !RN * SE)	0.00124	0.00125	0.00128
	(CK * !D * !RN * !SE)	-0.00018	-0.00017	-0.00016
	(CK * !D * !RN * !SE)	-0.00003	-0.00003	-0.00002
	(CK * !D * !RN * !SE)	0.00001	0.00002	0.00002
	(CK * !D * !RN * !SE)	0.00022	0.00022	0.00023
	(!CK * D * RN * SE)	0.00142	0.00143	0.00145
	(!CK * D * RN * SE)	0.00014	0.00015	0.00015
	(!CK * D * RN * SE)	-0.00013	-0.00013	-0.00013
	(!CK * D * RN * SE)	0.00254	0.00255	0.00257
	(!CK * D * RN * !SE)	-0.00018	-0.00017	-0.00015
	(!CK * D * RN * !SE)	-0.00002	-0.00002	-0.00002
	(!CK * D * RN * !SE)	0.00001	0.00002	0.00002
	(!CK * D * RN * !SE)	0.00022	0.00022	0.00023
	(!CK * D * !RN * SE)	0.00043	0.00044	0.00047
	(!CK * D * !RN * SE)	0.00028	0.00029	0.00029
	(!CK * D * !RN * SE)	-0.00014	-0.00013	-0.00012
	(!CK * D * !RN * SE)	0.00178	0.00179	0.00181
	(!CK * D * !RN * !SE)	-0.00018	-0.00017	-0.00016
	(!CK * D * !RN * !SE)	-0.00002	-0.00002	-0.00002
	(!CK * D * !RN * !SE)	0.00002	0.00002	0.00002
	(!CK * D * !RN * !SE)	0.00022	0.00022	0.00022
	(!CK * !D * RN * SE)	0.00142	0.00143	0.00144
	(!CK * !D * RN * SE)	0.00015	0.00015	0.00017
	(!CK * !D * RN * SE)	-0.00013	-0.00013	-0.00012
	(!CK * !D * RN * SE)	0.00254	0.00256	0.00257
	(!CK * !D * RN * !SE)	-0.00018	-0.00017	-0.00016
	(!CK * !D * RN * !SE)	-0.00003	-0.00003	-0.00002
	(!CK * !D * RN * !SE)	0.00002	0.00002	0.00002
	(!CK * !D * RN * !SE)	0.00022	0.00022	0.00022
	(!CK * !D * !RN * SE)	0.00043	0.00045	0.00047
	(!CK * !D * !RN * SE)	0.00027	0.00028	0.00029
	(!CK * !D * !RN * SE)	-0.00014	-0.00013	-0.00012
	(!CK * !D * !RN * SE)	0.00178	0.00180	0.00181
	(!CK * !D * !RN * !SE)	-0.00018	-0.00017	-0.00016
	(!CK * !D * !RN * !SE)	-0.00003	-0.00003	-0.00002
	(!CK * !D * !RN * !SE)	0.00001	0.00002	0.00002
	(!CK * !D * !RN * !SE)	0.00022	0.00022	0.00022

Passive power(pJ) for SI falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFRX0P5H7H	**(CK * D * RN * SE)**	0.00161	0.00163	0.00164
	(CK * D * RN * SE)	-0.00018	-0.00017	-0.00017
	(CK * D * RN * SE)	0.00013	0.00014	0.00015
	(CK * D * RN * SE)	0.00047	0.00048	0.00051
	(CK * D * RN * !SE)	0.00017	0.00018	0.00018
	(CK * D * RN * !SE)	0.00002	0.00002	0.00002
	(CK * D * RN * !SE)	-0.00002	-0.00002	-0.00002
	(CK * D * RN * !SE)	-0.00022	-0.00021	-0.00020
	(CK * D * !RN * SE)	0.00161	0.00163	0.00164
	(CK * D * !RN * SE)	-0.00017	-0.00017	-0.00016
	(CK * D * !RN * SE)	0.00014	0.00015	0.00016
	(CK * D * !RN * SE)	0.00047	0.00047	0.00048
	(CK * D * !RN * !SE)	0.00017	0.00018	0.00018
	(CK * D * !RN * !SE)	0.00002	0.00002	0.00002
	(CK * D * !RN * !SE)	-0.00002	-0.00002	-0.00002
	(CK * D * !RN * !SE)	-0.00022	-0.00021	-0.00020
	(CK * !D * RN * SE)	0.00161	0.00163	0.00165
	(CK * !D * RN * SE)	-0.00017	-0.00017	-0.00017
	(CK * !D * RN * SE)	0.00014	0.00015	0.00015
	(CK * !D * RN * SE)	0.00046	0.00047	0.00048
	(CK * !D * RN * !SE)	0.00018	0.00018	0.00018
	(CK * !D * RN * !SE)	0.00002	0.00003	0.00003
	(CK * !D * RN * !SE)	-0.00002	-0.00002	-0.00001
	(CK * !D * RN * !SE)	-0.00022	-0.00021	-0.00020
	(CK * !D * !RN * SE)	0.00161	0.00162	0.00164
	(CK * !D * !RN * SE)	-0.00017	-0.00017	-0.00016
	(CK * !D * !RN * SE)	0.00014	0.00015	0.00015
	(CK * !D * !RN * SE)	0.00046	0.00048	0.00050
	(CK * !D * !RN * !SE)	0.00018	0.00018	0.00018
	(CK * !D * !RN * !SE)	0.00002	0.00003	0.00003
	(CK * !D * !RN * !SE)	-0.00002	-0.00002	-0.00001
	(CK * !D * !RN * !SE)	-0.00022	-0.00021	-0.00020
	(!CK * D * RN * SE)	0.00273	0.00276	0.00278
	(!CK * D * RN * SE)	-0.00015	-0.00015	-0.00014
	(!CK * D * RN * SE)	0.00013	0.00013	0.00014
	(!CK * D * RN * SE)	0.00162	0.00164	0.00165
	(!CK * D * RN * !SE)	0.00017	0.00018	0.00018
	(!CK * D * RN * !SE)	0.00002	0.00002	0.00002
	(!CK * D * RN * !SE)	-0.00002	-0.00002	-0.00001
	(!CK * D * RN * !SE)	-0.00022	-0.00021	-0.00020
	(!CK * D * !RN * SE)	0.00289	0.00291	0.00293
	(!CK * D * !RN * SE)	-0.00019	-0.00019	-0.00018
	(!CK * D * !RN * SE)	0.00012	0.00013	0.00014
	(!CK * D * !RN * SE)	0.00175	0.00176	0.00179
	(!CK * D * !RN * !SE)	0.00017	0.00018	0.00018
	(!CK * D * !RN * !SE)	0.00002	0.00002	0.00002
	(!CK * D * !RN * !SE)	-0.00002	-0.00002	-0.00002
	(!CK * D * !RN * !SE)	-0.00022	-0.00021	-0.00020
	(!CK * !D * RN * SE)	0.00273	0.00275	0.00278
	(!CK * !D * RN * SE)	-0.00017	-0.00015	-0.00015
	(!CK * !D * RN * SE)	0.00012	0.00013	0.00013
	(!CK * !D * RN * SE)	0.00162	0.00164	0.00165
	(!CK * !D * RN * !SE)	0.00018	0.00018	0.00019
	(!CK * !D * RN * !SE)	0.00002	0.00003	0.00003
	(!CK * !D * RN * !SE)	-0.00002	-0.00002	-0.00002
	(!CK * !D * RN * !SE)	-0.00022	-0.00021	-0.00020
	(!CK * !D * !RN * SE)	0.00290	0.00291	0.00293
	(!CK * !D * !RN * SE)	-0.00018	-0.00017	-0.00017
	(!CK * !D * !RN * SE)	0.00012	0.00013	0.00014
	(!CK * !D * !RN * SE)	0.00177	0.00178	0.00181
	(!CK * !D * !RN * !SE)	0.00018	0.00018	0.00018
	(!CK * !D * !RN * !SE)	0.00002	0.00003	0.00003
	(!CK * !D * !RN * !SE)	-0.00002	-0.00002	-0.00001
	(!CK * !D * !RN * !SE)	-0.00022	-0.00021	-0.00020

SDFFRX1H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Negative Edge Trigger Scan D Flip-Flop with Async Clear
Q = !RN ?0 : falling (CKN) ?(SE&SI| !SE&D) : pre_Q
QN = !Q

Truth Table

INPUT					OUTPUT	
CK	D	RN	SE	SI	Q	QN
R	0	1	0	x	0	1
R	x	1	1	0	0	1
R	x	1	1	1	1	0
R	1	1	0	x	1	0
x	x	0	x	x	0	1
x	x	1	x	x	IQ	IQN

Footprint

Cell Name	Area
SDFFRX1H7H	10.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)	
	CK	D	RN	SE	SI	Q	QN
SDFFRX1H7H	0.00109	0.00089	0.00097	0.00220	0.00082	0.05032	0.05022

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
SDFFRX1H7H	0.00000	0.10826	0.11382

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFRX1H7H	CK->Q (RR)	-	0.24853	0.42141	0.85633

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFRX1H7H	CK->Q (RF)	-	0.20854	0.36167	0.72841
	RN->Q (FF)	(CK * D * SE * SI)	0.17267	0.31531	0.64883
	RN->Q (FF)	(CK * D * SE * !SI)	0.17267	0.31531	0.64883
	RN->Q (FF)	(CK * D * !SE * SI)	0.17267	0.31530	0.64883
	RN->Q (FF)	(CK * D * !SE * !SI)	0.17267	0.31530	0.64883
	RN->Q (FF)	(CK * !D * SE * SI)	0.17267	0.31530	0.64883
	RN->Q (FF)	(CK * !D * SE * !SI)	0.17267	0.31531	0.64883
	RN->Q (FF)	(CK * !D * !SE * SI)	0.17267	0.31531	0.64883
	RN->Q (FF)	(CK * !D * !SE * !SI)	0.17267	0.31531	0.64883
	RN->Q (FF)	(!CK * D * SE * SI)	0.15857	0.30056	0.63457
	RN->Q (FF)	(!CK * D * SE * !SI)	0.15543	0.29714	0.63055
	RN->Q (FF)	(!CK * D * !SE * SI)	0.15858	0.30057	0.63462
	RN->Q (FF)	(!CK * D * !SE * !SI)	0.15858	0.30057	0.63462
	RN->Q (FF)	(!CK * !D * SE * SI)	0.15857	0.30056	0.63457
	RN->Q (FF)	(!CK * !D * SE * !SI)	0.15543	0.29714	0.63057
	RN->Q (FF)	(!CK * !D * !SE * SI)	0.15543	0.29714	0.63057
	RN->Q (FF)	(!CK * !D * !SE * !SI)	0.15543	0.29714	0.63057

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFRX1H7H	CK->QN (RR)	-	0.15514	0.34261	0.78781
	RN->QN (FR)	(CK * D * SE * SI)	0.11339	0.29633	0.71137
	RN->QN (FR)	(CK * D * SE * !SI)	0.11339	0.29633	0.71139
	RN->QN (FR)	(CK * D * !SE * SI)	0.11339	0.29633	0.71138
	RN->QN (FR)	(CK * D * !SE * !SI)	0.11339	0.29632	0.71137
	RN->QN (FR)	(CK * !D * SE * SI)	0.11339	0.29633	0.71140
	RN->QN (FR)	(CK * !D * SE * !SI)	0.11339	0.29633	0.71142
	RN->QN (FR)	(CK * !D * !SE * SI)	0.11339	0.29633	0.71149
	RN->QN (FR)	(CK * !D * !SE * !SI)	0.11339	0.29633	0.71145
	RN->QN (FR)	(!CK * D * SE * SI)	0.10581	0.27993	0.68980
	RN->QN (FR)	(!CK * D * SE * !SI)	0.10350	0.27679	0.68621
	RN->QN (FR)	(!CK * D * !SE * SI)	0.10582	0.27994	0.68982
	RN->QN (FR)	(!CK * D * !SE * !SI)	0.10582	0.27995	0.69001
	RN->QN (FR)	(!CK * !D * SE * SI)	0.10581	0.27994	0.68978
	RN->QN (FR)	(!CK * !D * SE * !SI)	0.10350	0.27679	0.68621
	RN->QN (FR)	(!CK * !D * !SE * SI)	0.10350	0.27679	0.68618
	RN->QN (FR)	(!CK * !D * !SE * !SI)	0.10350	0.27679	0.68621

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFRX1H7H	CK->QN (RF)	-	0.17942	0.36912	0.76540

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
SDFFRX1H7H	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRX1H7H	**hold**	**CK (R)**	-0.25847	-0.09741	0.01100
	setup	**CK (R)**	0.03152	0.15710	0.34865

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRX1H7H	**hold**	**CK (R)**	-0.24457	-0.05392	0.12920
	setup	**CK (R)**	-0.07279	0.13357	0.36910

Min Pulse Width (ns) for RN:

Cell Name	High	Low
SDFFRX1H7H	-	0.9851

Constraints(ns) for RN rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRX1H7H	**hold**	**CK (R)**	-0.11157	0.03245	0.20853
	setup	**CK (R)**	-0.10461	0.05431	0.19934

Constraints(ns) for SE rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRX1H7H	hold	CK (R)	-0.21349	-0.06292	0.09097
	setup	CK (R)	0.03658	0.16528	0.33415

Constraints(ns) for SE falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRX1H7H	hold	CK (R)	-0.16730	-0.01775	0.16242
	setup	CK (R)	0.04934	0.17437	0.32967

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRX1H7H	hold	CK (R)	-0.27102	-0.10402	0.00591
	setup	CK (R)	0.03987	0.16734	0.36555

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRX1H7H	hold	CK (R)	-0.25127	-0.06155	0.12108
	setup	CK (R)	-0.05642	0.14702	0.38216

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFRX1H7H	CK	-	0.00235	0.00244	0.00251
	CK	-	-0.00002	-0.00001	-0.00001
	CK	-	0.00001	0.00002	0.00002
	CK	-	0.00268	0.00277	0.00285

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

SDFFRX1H7H	CK	-	0.00238	0.00244	0.00249
	CK	-	0.00001	0.00001	0.00002
	CK	-	-0.00002	-0.00002	-0.00001
	CK	-	0.00282	0.00288	0.00293
	RN	(CK * D * SE * SI)	0.00269	0.00275	0.00280
	RN	(CK * D * SE * SI)	-0.00001	0.00000	0.00000
	RN	(CK * D * SE * SI)	-0.00000	0.00000	0.00001
	RN	(CK * D * SE * SI)	0.00236	0.00241	0.00247
	RN	(CK * D * SE * !SI)	0.00269	0.00275	0.00280
	RN	(CK * D * SE * !SI)	0.00000	0.00000	0.00002
	RN	(CK * D * SE * !SI)	-0.00001	0.00000	0.00001
	RN	(CK * D * SE * !SI)	0.00236	0.00242	0.00247
	RN	(CK * D * !SE * SI)	0.00269	0.00275	0.00280
	RN	(CK * D * !SE * SI)	-0.00001	0.00000	0.00001
	RN	(CK * D * !SE * SI)	-0.00001	0.00000	0.00001
	RN	(CK * D * !SE * SI)	0.00236	0.00242	0.00247
	RN	(CK * D * !SE * !SI)	0.00269	0.00275	0.00280
	RN	(CK * D * !SE * !SI)	-0.00001	0.00000	0.00001
	RN	(CK * D * !SE * !SI)	-0.00001	0.00000	0.00001
	RN	(CK * D * !SE * !SI)	0.00236	0.00242	0.00247
	RN	(CK * !D * SE * SI)	0.00269	0.00275	0.00280
	RN	(CK * !D * SE * SI)	-0.00001	0.00000	0.00000
	RN	(CK * !D * SE * SI)	-0.00000	0.00000	0.00001
	RN	(CK * !D * SE * SI)	0.00236	0.00241	0.00247
	RN	(CK * !D * SE * !SI)	0.00269	0.00275	0.00280
	RN	(CK * !D * SE * !SI)	0.00000	0.00000	0.00002
	RN	(CK * !D * SE * !SI)	-0.00001	0.00000	0.00001
	RN	(CK * !D * SE * !SI)	0.00236	0.00242	0.00247
	RN	(CK * !D * !SE * SI)	0.00269	0.00275	0.00280
	RN	(CK * !D * !SE * SI)	-0.00001	0.00000	0.00001
	RN	(CK * !D * !SE * SI)	-0.00001	0.00000	0.00000
	RN	(CK * !D * !SE * SI)	0.00236	0.00242	0.00247
	RN	(CK * !D * !SE * !SI)	0.00269	0.00275	0.00280
	RN	(CK * !D * !SE * !SI)	-0.00001	0.00000	0.00001
	RN	(CK * !D * !SE * !SI)	-0.00001	0.00000	0.00000
	RN	(CK * !D * !SE * !SI)	0.00236	0.00242	0.00247
	RN	(!CK * D * SE * SI)	0.00202	0.00208	0.00213
	RN	(!CK * D * SE * SI)	0.00003	0.00003	0.00005
	RN	(!CK * D * SE * SI)	-0.00006	-0.00004	-0.00003
	RN	(!CK * D * SE * SI)	0.00175	0.00181	0.00186
	RN	(!CK * D * SE * !SI)	0.00201	0.00207	0.00212
	RN	(!CK * D * SE * !SI)	0.00001	0.00002	0.00002
	RN	(!CK * D * SE * !SI)	-0.00003	-0.00003	-0.00003
	RN	(!CK * D * SE * !SI)	0.00173	0.00179	0.00184
	RN	(!CK * D * !SE * SI)	0.00202	0.00208	0.00213
	RN	(!CK * D * !SE * SI)	0.00002	0.00003	0.00004
	RN	(!CK * D * !SE * SI)	-0.00005	-0.00004	-0.00003
	RN	(!CK * D * !SE * SI)	0.00175	0.00181	0.00186
	RN	(!CK * D * !SE * !SI)	0.00202	0.00208	0.00213
	RN	(!CK * D * !SE * !SI)	0.00002	0.00003	0.00004
	RN	(!CK * D * !SE * !SI)	-0.00005	-0.00004	-0.00003
	RN	(!CK * D * !SE * !SI)	0.00175	0.00181	0.00186
	RN	(!CK * !D * SE * SI)	0.00202	0.00208	0.00213
	RN	(!CK * !D * SE * SI)	0.00003	0.00003	0.00004
	RN	(!CK * !D * SE * SI)	-0.00006	-0.00004	-0.00003
	RN	(!CK * !D * SE * SI)	0.00175	0.00181	0.00186
	RN	(!CK * !D * SE * !SI)	0.00201	0.00207	0.00212
	RN	(!CK * !D * SE * !SI)	0.00002	0.00002	0.00002
	RN	(!CK * !D * SE * !SI)	-0.00003	-0.00003	-0.00003
	RN	(!CK * !D * SE * !SI)	0.00173	0.00179	0.00184
	RN	(!CK * !D * !SE * SI)	0.00201	0.00207	0.00212
	RN	(!CK * !D * !SE * SI)	0.00000	0.00002	0.00003
	RN	(!CK * !D * !SE * SI)	-0.00003	-0.00003	-0.00002
	RN	(!CK * !D * !SE * SI)	0.00173	0.00179	0.00184
	RN	(!CK * !D * !SE * !SI)	0.00201	0.00207	0.00212
	RN	(!CK * !D * !SE * !SI)	0.00000	0.00002	0.00003
	RN	(!CK * !D * !SE * !SI)	-0.00003	-0.00003	-0.00003
	RN	(!CK * !D * !SE * !SI)	0.00173	0.00179	0.00184

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

SDFFRX1H7H	CK	-	0.00238	0.00244	0.00250
	CK	-	0.00000	0.00001	0.00003
	CK	-	-0.00003	-0.00002	-0.00000
	CK	-	0.00282	0.00288	0.00295
	RN	(CK * D * SE * SI)	0.00268	0.00275	0.00280
	RN	(CK * D * SE * SI)	-0.00002	0.00000	0.00002
	RN	(CK * D * SE * SI)	-0.00000	0.00000	0.00001
	RN	(CK * D * SE * SI)	0.00236	0.00242	0.00247
	RN	(CK * D * SE * !SI)	0.00269	0.00275	0.00280
	RN	(CK * D * SE * !SI)	-0.00001	0.00000	0.00002
	RN	(CK * D * SE * !SI)	-0.00000	0.00000	0.00001
	RN	(CK * D * SE * !SI)	0.00236	0.00242	0.00247
	RN	(CK * D * !SE * SI)	0.00269	0.00275	0.00280
	RN	(CK * D * !SE * SI)	-0.00001	0.00000	0.00002
	RN	(CK * D * !SE * SI)	-0.00000	0.00000	0.00001
	RN	(CK * D * !SE * SI)	0.00236	0.00241	0.00247
	RN	(CK * D * !SE * !SI)	0.00269	0.00275	0.00280
	RN	(CK * D * !SE * !SI)	-0.00001	0.00000	0.00002
	RN	(CK * D * !SE * !SI)	-0.00000	0.00000	0.00001
	RN	(CK * D * !SE * !SI)	0.00236	0.00241	0.00247
	RN	(CK * !D * SE * SI)	0.00268	0.00275	0.00280
	RN	(CK * !D * SE * SI)	0.00000	0.00001	0.00002
	RN	(CK * !D * SE * SI)	-0.00000	0.00000	0.00001
	RN	(CK * !D * SE * SI)	0.00236	0.00242	0.00247
	RN	(CK * !D * SE * !SI)	0.00269	0.00275	0.00280
	RN	(CK * !D * SE * !SI)	-0.00001	0.00000	0.00002
	RN	(CK * !D * SE * !SI)	-0.00000	0.00000	0.00001
	RN	(CK * !D * SE * !SI)	0.00236	0.00242	0.00247
	RN	(CK * !D * !SE * SI)	0.00269	0.00275	0.00280
	RN	(CK * !D * !SE * SI)	-0.00001	0.00000	0.00002
	RN	(CK * !D * !SE * SI)	-0.00000	0.00000	0.00001
	RN	(CK * !D * !SE * SI)	0.00235	0.00241	0.00247
	RN	(CK * !D * !SE * !SI)	0.00268	0.00275	0.00280
	RN	(CK * !D * !SE * !SI)	-0.00001	0.00000	0.00002
	RN	(CK * !D * !SE * !SI)	-0.00001	0.00000	0.00001
	RN	(CK * !D * !SE * !SI)	0.00235	0.00241	0.00247
	RN	(!CK * D * SE * SI)	0.00202	0.00208	0.00213
	RN	(!CK * D * SE * SI)	0.00001	0.00003	0.00004
	RN	(!CK * D * SE * SI)	-0.00005	-0.00003	-0.00002
	RN	(!CK * D * SE * SI)	0.00174	0.00181	0.00186
	RN	(!CK * D * SE * !SI)	0.00200	0.00207	0.00212
	RN	(!CK * D * SE * !SI)	0.00000	0.00002	0.00004
	RN	(!CK * D * SE * !SI)	-0.00005	-0.00003	-0.00002
	RN	(!CK * D * SE * !SI)	0.00173	0.00179	0.00184
	RN	(!CK * D * !SE * SI)	0.00202	0.00208	0.00213
	RN	(!CK * D * !SE * SI)	0.00001	0.00003	0.00004
	RN	(!CK * D * !SE * SI)	-0.00005	-0.00003	-0.00000
	RN	(!CK * D * !SE * SI)	0.00174	0.00181	0.00186
	RN	(!CK * D * !SE * !SI)	0.00202	0.00208	0.00213
	RN	(!CK * D * !SE * !SI)	0.00001	0.00003	0.00004
	RN	(!CK * D * !SE * !SI)	-0.00005	-0.00003	-0.00000
	RN	(!CK * D * !SE * !SI)	0.00174	0.00181	0.00186
	RN	(!CK * !D * SE * SI)	0.00202	0.00208	0.00213
	RN	(!CK * !D * SE * SI)	0.00001	0.00003	0.00004
	RN	(!CK * !D * SE * SI)	-0.00005	-0.00004	-0.00002
	RN	(!CK * !D * SE * SI)	0.00174	0.00181	0.00186
	RN	(!CK * !D * SE * !SI)	0.00200	0.00207	0.00212
	RN	(!CK * !D * SE * !SI)	0.00000	0.00002	0.00004
	RN	(!CK * !D * SE * !SI)	-0.00005	-0.00003	-0.00002
	RN	(!CK * !D * SE * !SI)	0.00173	0.00179	0.00184
	RN	(!CK * !D * !SE * SI)	-0.00011	0.00203	0.00212
	RN	(!CK * !D * !SE * SI)	-0.00000	0.00009	0.00310
	RN	(!CK * !D * !SE * SI)	-0.00004	-0.00003	0.00002
	RN	(!CK * !D * !SE * SI)	0.00172	0.00180	0.00249
	RN	(!CK * !D * !SE * !SI)	0.00201	0.00209	0.00292
	RN	(!CK * !D * !SE * !SI)	-0.00071	0.00001	0.00004
	RN	(!CK * !D * !SE * !SI)	-0.00005	-0.00003	-0.00001
	RN	(!CK * !D * !SE * !SI)	0.00172	0.00179	0.00187

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFRX1H7H	CK	-	0.00235	0.00243	0.00251
	CK	-	-0.00003	-0.00001	0.00000
	CK	-	0.00000	0.00002	0.00003
	CK	-	0.00268	0.00277	0.00285

Passive power(pJ) for CK rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFRX1H7H	**(D * RN * SE * SI)**	0.00182	0.00187	0.00193
	(D * RN * SE * SI)	0.00000	0.00001	0.00001
	(D * RN * SE * SI)	0.00000	0.00000	0.00000
	(D * RN * SE * SI)	0.00263	0.00267	0.00272
	(D * RN * SE * !SI)	0.00185	0.00190	0.00196
	(D * RN * SE * !SI)	0.00000	0.00000	0.00000
	(D * RN * SE * !SI)	0.00002	0.00002	0.00002
	(D * RN * SE * !SI)	0.00260	0.00265	0.00270
	(D * RN * !SE * SI)	0.00190	0.00195	0.00200
	(D * RN * !SE * SI)	0.00000	0.00001	0.00002
	(D * RN * !SE * SI)	0.00000	0.00000	0.00000
	(D * RN * !SE * SI)	0.00271	0.00276	0.00282
	(D * RN * !SE * !SI)	0.00190	0.00195	0.00200
	(D * RN * !SE * !SI)	0.00000	0.00001	0.00002
	(D * RN * !SE * !SI)	0.00000	0.00000	0.00000
	(D * RN * !SE * !SI)	0.00271	0.00276	0.00282
	(D * !RN * SE * SI)	0.00314	0.00320	0.00327
	(D * !RN * SE * SI)	-0.00003	-0.00003	-0.00002
	(D * !RN * SE * SI)	0.00003	0.00003	0.00004
	(D * !RN * SE * SI)	0.00386	0.00392	0.00399
	(D * !RN * SE * !SI)	0.00179	0.00184	0.00190
	(D * !RN * SE * !SI)	0.00001	0.00001	0.00002
	(D * !RN * SE * !SI)	0.00001	0.00002	0.00002
	(D * !RN * SE * !SI)	0.00256	0.00261	0.00266
	(D * !RN * !SE * SI)	0.00323	0.00328	0.00335
	(D * !RN * !SE * SI)	-0.00003	-0.00002	-0.00001
	(D * !RN * !SE * SI)	0.00003	0.00004	0.00004
	(D * !RN * !SE * SI)	0.00395	0.00400	0.00407
	(D * !RN * !SE * !SI)	0.00323	0.00328	0.00335
	(D * !RN * !SE * !SI)	-0.00003	-0.00003	-0.00002
	(D * !RN * !SE * !SI)	0.00003	0.00003	0.00004
	(D * !RN * !SE * !SI)	0.00395	0.00400	0.00407
	(!D * RN * SE * SI)	0.00182	0.00187	0.00193
	(!D * RN * SE * SI)	0.00000	0.00001	0.00001
	(!D * RN * SE * SI)	0.00000	0.00000	0.00000
	(!D * RN * SE * SI)	0.00263	0.00267	0.00272
	(!D * RN * SE * !SI)	0.00185	0.00190	0.00196
	(!D * RN * SE * !SI)	0.00000	0.00000	0.00000
	(!D * RN * SE * !SI)	0.00002	0.00002	0.00002
	(!D * RN * SE * !SI)	0.00260	0.00265	0.00270
	(!D * RN * !SE * SI)	0.00193	0.00198	0.00203
	(!D * RN * !SE * SI)	0.00000	0.00000	0.00000
	(!D * RN * !SE * SI)	0.00001	0.00002	0.00002
	(!D * RN * !SE * SI)	0.00268	0.00273	0.00279
	(!D * RN * !SE * !SI)	0.00193	0.00198	0.00203
	(!D * RN * !SE * !SI)	0.00000	0.00000	0.00000
	(!D * RN * !SE * !SI)	0.00001	0.00002	0.00002
	(!D * RN * !SE * !SI)	0.00268	0.00273	0.00279
	(!D * !RN * SE * SI)	0.00314	0.00320	0.00327
	(!D * !RN * SE * SI)	-0.00003	-0.00003	-0.00002
	(!D * !RN * SE * SI)	0.00003	0.00003	0.00004
	(!D * !RN * SE * SI)	0.00386	0.00392	0.00399
	(!D * !RN * SE * !SI)	0.00179	0.00184	0.00190
	(!D * !RN * SE * !SI)	0.00000	0.00001	0.00002
	(!D * !RN * SE * !SI)	0.00001	0.00002	0.00002
	(!D * !RN * SE * !SI)	0.00256	0.00261	0.00266
	(!D * !RN * !SE * SI)	0.00187	0.00192	0.00198
	(!D * !RN * !SE * SI)	0.00000	0.00001	0.00002
	(!D * !RN * !SE * SI)	0.00001	0.00002	0.00002
	(!D * !RN * !SE * SI)	0.00264	0.00269	0.00275
	(!D * !RN * !SE * !SI)	0.00187	0.00192	0.00199
	(!D * !RN * !SE * !SI)	0.00000	0.00001	0.00002
	(!D * !RN * !SE * !SI)	0.00001	0.00002	0.00002
	(!D * !RN * !SE * !SI)	0.00264	0.00269	0.00275

Passive power(pJ) for CK falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFRX1H7H	**(D * RN * SE * SI)**	0.00389	0.00396	0.00404
	(D * RN * SE * SI)	-0.00001	-0.00001	-0.00000
	(D * RN * SE * SI)	0.00000	0.00000	0.00000
	(D * RN * SE * SI)	0.00314	0.00321	0.00329
	(D * RN * SE * !SI)	0.00410	0.00414	0.00419
	(D * RN * SE * !SI)	0.00000	0.00000	0.00000
	(D * RN * SE * !SI)	-0.00000	0.00000	0.00001
	(D * RN * SE * !SI)	0.00330	0.00334	0.00337
	(D * RN * !SE * SI)	0.00382	0.00388	0.00396
	(D * RN * !SE * SI)	-0.00002	-0.00001	-0.00000
	(D * RN * !SE * SI)	0.00000	0.00000	0.00000
	(D * RN * !SE * SI)	0.00306	0.00313	0.00320
	(D * RN * !SE * !SI)	0.00382	0.00388	0.00396
	(D * RN * !SE * !SI)	-0.00002	-0.00001	-0.00000
	(D * RN * !SE * !SI)	0.00000	0.00000	0.00000
	(D * RN * !SE * !SI)	0.00306	0.00313	0.00320
	(D * !RN * SE * SI)	0.00281	0.00288	0.00295
	(D * !RN * SE * SI)	0.00012	0.00012	0.00013
	(D * !RN * SE * SI)	-0.00004	-0.00003	-0.00003
	(D * !RN * SE * SI)	0.00227	0.00234	0.00242
	(D * !RN * SE * !SI)	0.00256	0.00261	0.00267
	(D * !RN * SE * !SI)	-0.00001	-0.00001	-0.00000
	(D * !RN * SE * !SI)	-0.00002	-0.00002	-0.00001
	(D * !RN * SE * !SI)	0.00179	0.00184	0.00190
	(D * !RN * !SE * SI)	0.00273	0.00280	0.00286
	(D * !RN * !SE * SI)	0.00012	0.00013	0.00013
	(D * !RN * !SE * SI)	-0.00004	-0.00004	-0.00003
	(D * !RN * !SE * SI)	0.00219	0.00226	0.00234
	(D * !RN * !SE * !SI)	0.00273	0.00280	0.00286
	(D * !RN * !SE * !SI)	0.00012	0.00013	0.00013
	(D * !RN * !SE * !SI)	-0.00004	-0.00003	-0.00003
	(D * !RN * !SE * !SI)	0.00220	0.00226	0.00234
	(!D * RN * SE * SI)	0.00390	0.00396	0.00404
	(!D * RN * SE * SI)	-0.00001	-0.00001	-0.00000
	(!D * RN * SE * SI)	0.00000	0.00000	0.00000
	(!D * RN * SE * SI)	0.00314	0.00321	0.00330
	(!D * RN * SE * !SI)	0.00410	0.00414	0.00419
	(!D * RN * SE * !SI)	0.00000	0.00000	0.00000
	(!D * RN * SE * !SI)	-0.00000	0.00000	0.00001
	(!D * RN * SE * !SI)	0.00331	0.00334	0.00337
	(!D * RN * !SE * SI)	0.00402	0.00407	0.00411
	(!D * RN * !SE * SI)	0.00000	0.00000	0.00000
	(!D * RN * !SE * SI)	-0.00000	0.00001	0.00001
	(!D * RN * !SE * SI)	0.00321	0.00326	0.00331
	(!D * RN * !SE * !SI)	0.00402	0.00407	0.00411
	(!D * RN * !SE * !SI)	0.00000	0.00000	0.00000
	(!D * RN * !SE * !SI)	-0.00000	0.00001	0.00001
	(!D * RN * !SE * !SI)	0.00321	0.00326	0.00331
	(!D * !RN * SE * SI)	0.00281	0.00288	0.00295
	(!D * !RN * SE * SI)	0.00012	0.00012	0.00013
	(!D * !RN * SE * SI)	-0.00004	-0.00003	-0.00003
	(!D * !RN * SE * SI)	0.00227	0.00234	0.00242
	(!D * !RN * SE * !SI)	0.00257	0.00261	0.00267
	(!D * !RN * SE * !SI)	-0.00001	-0.00001	-0.00000
	(!D * !RN * SE * !SI)	-0.00002	-0.00002	-0.00001
	(!D * !RN * SE * !SI)	0.00179	0.00184	0.00190
	(!D * !RN * !SE * SI)	0.00249	0.00253	0.00258
	(!D * !RN * !SE * SI)	-0.00001	-0.00001	-0.00000
	(!D * !RN * !SE * SI)	-0.00002	-0.00002	-0.00001
	(!D * !RN * !SE * SI)	0.00171	0.00176	0.00182
	(!D * !RN * !SE * !SI)	0.00248	0.00253	0.00259
	(!D * !RN * !SE * !SI)	-0.00001	-0.00001	-0.00000
	(!D * !RN * !SE * !SI)	-0.00002	-0.00002	-0.00001
	(!D * !RN * !SE * !SI)	0.00171	0.00176	0.00182

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFRX1H7H	**(CK * RN * SE * SI)**	-0.00012	-0.00011	-0.00009
	(CK * RN * SE * SI)	-0.00003	-0.00003	-0.00003
	(CK * RN * SE * SI)	0.00002	0.00002	0.00002
	(CK * RN * SE * SI)	0.00033	0.00033	0.00033
	(CK * RN * SE * !SI)	-0.00016	-0.00015	-0.00013
	(CK * RN * SE * !SI)	-0.00003	-0.00003	-0.00003
	(CK * RN * SE * !SI)	0.00002	0.00002	0.00002
	(CK * RN * SE * !SI)	0.00029	0.00029	0.00030
	(CK * RN * !SE * SI)	0.00037	0.00038	0.00040
	(CK * RN * !SE * SI)	0.00018	0.00018	0.00019
	(CK * RN * !SE * SI)	-0.00016	-0.00016	-0.00015
	(CK * RN * !SE * SI)	0.00158	0.00160	0.00163
	(CK * RN * !SE * !SI)	0.00037	0.00038	0.00040
	(CK * RN * !SE * !SI)	0.00018	0.00018	0.00019
	(CK * RN * !SE * !SI)	-0.00016	-0.00016	-0.00015
	(CK * RN * !SE * !SI)	0.00158	0.00160	0.00163
	(CK * !RN * SE * SI)	-0.00012	-0.00011	-0.00009
	(CK * !RN * SE * SI)	-0.00003	-0.00003	-0.00003
	(CK * !RN * SE * SI)	0.00002	0.00002	0.00002
	(CK * !RN * SE * SI)	0.00033	0.00033	0.00033
	(CK * !RN * SE * !SI)	-0.00016	-0.00015	-0.00013
	(CK * !RN * SE * !SI)	-0.00003	-0.00003	-0.00003
	(CK * !RN * SE * !SI)	0.00002	0.00002	0.00002
	(CK * !RN * SE * !SI)	0.00029	0.00029	0.00030
	(CK * !RN * !SE * SI)	0.00037	0.00038	0.00040
	(CK * !RN * !SE * SI)	0.00018	0.00018	0.00019
	(CK * !RN * !SE * SI)	-0.00016	-0.00016	-0.00015
	(CK * !RN * !SE * SI)	0.00158	0.00160	0.00163
	(CK * !RN * !SE * !SI)	0.00037	0.00038	0.00040
	(CK * !RN * !SE * !SI)	0.00017	0.00018	0.00019
	(CK * !RN * !SE * !SI)	-0.00016	-0.00015	-0.00015
	(CK * !RN * !SE * !SI)	0.00158	0.00160	0.00163
	(!CK * RN * SE * SI)	-0.00012	-0.00011	-0.00009
	(!CK * RN * SE * SI)	-0.00003	-0.00003	-0.00003
	(!CK * RN * SE * SI)	0.00001	0.00002	0.00002
	(!CK * RN * SE * SI)	0.00033	0.00033	0.00033
	(!CK * RN * SE * !SI)	-0.00016	-0.00015	-0.00013
	(!CK * RN * SE * !SI)	-0.00003	-0.00003	-0.00003
	(!CK * RN * SE * !SI)	0.00002	0.00002	0.00002
	(!CK * RN * SE * !SI)	0.00029	0.00029	0.00029
	(!CK * RN * !SE * SI)	0.00174	0.00176	0.00177
	(!CK * RN * !SE * SI)	0.00015	0.00016	0.00017
	(!CK * RN * !SE * SI)	-0.00015	-0.00014	-0.00014
	(!CK * RN * !SE * SI)	0.00291	0.00294	0.00296
	(!CK * RN * !SE * !SI)	0.00174	0.00176	0.00177
	(!CK * RN * !SE * !SI)	0.00015	0.00016	0.00017
	(!CK * RN * !SE * !SI)	-0.00015	-0.00014	-0.00014
	(!CK * RN * !SE * !SI)	0.00291	0.00294	0.00296
	(!CK * !RN * SE * SI)	-0.00012	-0.00011	-0.00009
	(!CK * !RN * SE * SI)	-0.00003	-0.00003	-0.00003
	(!CK * !RN * SE * SI)	0.00002	0.00002	0.00002
	(!CK * !RN * SE * SI)	0.00033	0.00033	0.00033
	(!CK * !RN * SE * !SI)	-0.00016	-0.00015	-0.00013
	(!CK * !RN * SE * !SI)	-0.00003	-0.00003	-0.00003
	(!CK * !RN * SE * !SI)	0.00002	0.00002	0.00002
	(!CK * !RN * SE * !SI)	0.00029	0.00029	0.00029
	(!CK * !RN * !SE * SI)	0.00072	0.00074	0.00076
	(!CK * !RN * !SE * SI)	0.00030	0.00030	0.00031
	(!CK * !RN * !SE * SI)	-0.00015	-0.00014	-0.00014
	(!CK * !RN * !SE * SI)	0.00214	0.00216	0.00219
	(!CK * !RN * !SE * !SI)	0.00072	0.00074	0.00076
	(!CK * !RN * !SE * !SI)	0.00030	0.00030	0.00030
	(!CK * !RN * !SE * !SI)	-0.00014	-0.00014	-0.00013
	(!CK * !RN * !SE * !SI)	0.00214	0.00216	0.00219

Passive power(pJ) for D falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFRX1H7H	**(CK * RN * SE * SI)**	0.00012	0.00012	0.00012
	(CK * RN * SE * SI)	0.00003	0.00003	0.00003
	(CK * RN * SE * SI)	-0.00002	-0.00002	-0.00002
	(CK * RN * SE * SI)	-0.00033	-0.00032	-0.00031
	(CK * RN * SE * !SI)	0.00016	0.00016	0.00017
	(CK * RN * SE * !SI)	0.00003	0.00003	0.00003
	(CK * RN * SE * !SI)	-0.00002	-0.00002	-0.00002
	(CK * RN * SE * !SI)	-0.00029	-0.00028	-0.00027
	(CK * RN * !SE * SI)	0.00133	0.00135	0.00137
	(CK * RN * !SE * SI)	-0.00018	-0.00018	-0.00018
	(CK * RN * !SE * SI)	0.00015	0.00016	0.00017
	(CK * RN * !SE * SI)	0.00011	0.00013	0.00015
	(CK * RN * !SE * !SI)	0.00133	0.00135	0.00139
	(CK * RN * !SE * !SI)	-0.00019	-0.00018	-0.00018
	(CK * RN * !SE * !SI)	0.00015	0.00016	0.00016
	(CK * RN * !SE * !SI)	0.00011	0.00013	0.00015
	(CK * !RN * SE * SI)	0.00012	0.00012	0.00012
	(CK * !RN * SE * SI)	0.00003	0.00003	0.00003
	(CK * !RN * SE * SI)	-0.00002	-0.00002	-0.00002
	(CK * !RN * SE * SI)	-0.00033	-0.00032	-0.00031
	(CK * !RN * SE * !SI)	0.00016	0.00016	0.00017
	(CK * !RN * SE * !SI)	0.00003	0.00003	0.00003
	(CK * !RN * SE * !SI)	-0.00002	-0.00002	-0.00002
	(CK * !RN * SE * !SI)	-0.00029	-0.00028	-0.00027
	(CK * !RN * !SE * SI)	0.00133	0.00135	0.00137
	(CK * !RN * !SE * SI)	-0.00018	-0.00018	-0.00017
	(CK * !RN * !SE * SI)	0.00015	0.00016	0.00017
	(CK * !RN * !SE * SI)	0.00011	0.00013	0.00015
	(CK * !RN * !SE * !SI)	0.00133	0.00135	0.00137
	(CK * !RN * !SE * !SI)	-0.00018	-0.00018	-0.00017
	(CK * !RN * !SE * !SI)	0.00015	0.00015	0.00016
	(CK * !RN * !SE * !SI)	0.00011	0.00013	0.00016
	(!CK * RN * SE * SI)	0.00012	0.00012	0.00012
	(!CK * RN * SE * SI)	0.00003	0.00003	0.00003
	(!CK * RN * SE * SI)	-0.00002	-0.00002	-0.00001
	(!CK * RN * SE * SI)	-0.00033	-0.00032	-0.00032
	(!CK * RN * SE * !SI)	0.00016	0.00016	0.00017
	(!CK * RN * SE * !SI)	0.00003	0.00003	0.00003
	(!CK * RN * SE * !SI)	-0.00002	-0.00002	-0.00002
	(!CK * RN * SE * !SI)	-0.00029	-0.00028	-0.00027
	(!CK * RN * !SE * SI)	0.00250	0.00252	0.00254
	(!CK * RN * !SE * SI)	-0.00016	-0.00016	-0.00015
	(!CK * RN * !SE * SI)	0.00014	0.00014	0.00016
	(!CK * RN * !SE * SI)	0.00132	0.00133	0.00135
	(!CK * RN * !SE * !SI)	0.00250	0.00252	0.00254
	(!CK * RN * !SE * !SI)	-0.00016	-0.00016	-0.00015
	(!CK * RN * !SE * !SI)	0.00014	0.00014	0.00016
	(!CK * RN * !SE * !SI)	0.00132	0.00133	0.00135
	(!CK * !RN * SE * SI)	0.00012	0.00012	0.00012
	(!CK * !RN * SE * SI)	0.00003	0.00003	0.00003
	(!CK * !RN * SE * SI)	-0.00002	-0.00002	-0.00002
	(!CK * !RN * SE * SI)	-0.00033	-0.00032	-0.00031
	(!CK * !RN * SE * !SI)	0.00016	0.00016	0.00017
	(!CK * !RN * SE * !SI)	0.00003	0.00003	0.00003
	(!CK * !RN * SE * !SI)	-0.00002	-0.00002	-0.00002
	(!CK * !RN * SE * !SI)	-0.00029	-0.00028	-0.00027
	(!CK * !RN * !SE * SI)	0.00266	0.00268	0.00270
	(!CK * !RN * !SE * SI)	-0.00020	-0.00020	-0.00019
	(!CK * !RN * !SE * SI)	0.00014	0.00014	0.00015
	(!CK * !RN * !SE * SI)	0.00145	0.00146	0.00148
	(!CK * !RN * !SE * !SI)	0.00266	0.00268	0.00271
	(!CK * !RN * !SE * !SI)	-0.00018	-0.00018	-0.00018
	(!CK * !RN * !SE * !SI)	0.00013	0.00014	0.00014
	(!CK * !RN * !SE * !SI)	0.00147	0.00149	0.00151

Passive power(pJ) for RN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFRX1H7H	**(CK * D * SE * SI)**	0.00005	0.00007	0.00010
	(CK * D * SE * SI)	0.00004	0.00005	0.00006
	(CK * D * SE * SI)	-0.00003	-0.00003	-0.00003
	(CK * D * SE * SI)	0.00082	0.00085	0.00087
	(CK * D * SE * !SI)	0.00005	0.00007	0.00010
	(CK * D * SE * !SI)	0.00004	0.00005	0.00006
	(CK * D * SE * !SI)	-0.00003	-0.00003	-0.00003
	(CK * D * SE * !SI)	0.00082	0.00085	0.00087
	(CK * D * !SE * SI)	0.00005	0.00007	0.00010
	(CK * D * !SE * SI)	0.00004	0.00005	0.00006
	(CK * D * !SE * SI)	-0.00003	-0.00003	-0.00003
	(CK * D * !SE * SI)	0.00082	0.00085	0.00087
	(CK * D * !SE * !SI)	0.00005	0.00007	0.00010
	(CK * D * !SE * !SI)	0.00004	0.00005	0.00006
	(CK * D * !SE * !SI)	-0.00003	-0.00003	-0.00003
	(CK * D * !SE * !SI)	0.00082	0.00085	0.00087
	(CK * !D * SE * SI)	0.00005	0.00007	0.00010
	(CK * !D * SE * SI)	0.00004	0.00005	0.00006
	(CK * !D * SE * SI)	-0.00003	-0.00003	-0.00003
	(CK * !D * SE * SI)	0.00082	0.00085	0.00087
	(CK * !D * SE * !SI)	0.00005	0.00007	0.00010
	(CK * !D * SE * !SI)	0.00004	0.00005	0.00006
	(CK * !D * SE * !SI)	-0.00003	-0.00003	-0.00003
	(CK * !D * SE * !SI)	0.00082	0.00085	0.00087
	(CK * !D * !SE * SI)	0.00005	0.00007	0.00010
	(CK * !D * !SE * SI)	0.00004	0.00005	0.00006
	(CK * !D * !SE * SI)	-0.00003	-0.00003	-0.00003
	(CK * !D * !SE * SI)	0.00082	0.00085	0.00087
	(CK * !D * !SE * !SI)	0.00005	0.00007	0.00010
	(CK * !D * !SE * !SI)	0.00004	0.00005	0.00006
	(CK * !D * !SE * !SI)	-0.00003	-0.00003	-0.00003
	(CK * !D * !SE * !SI)	0.00082	0.00085	0.00087
	(!CK * D * SE * SI)	0.00110	0.00113	0.00116
	(!CK * D * SE * SI)	0.00000	0.00000	0.00000
	(!CK * D * SE * SI)	0.00001	0.00001	0.00002
	(!CK * D * SE * SI)	0.00165	0.00168	0.00170
	(!CK * D * SE * !SI)	0.00005	0.00007	0.00009
	(!CK * D * SE * !SI)	0.00005	0.00005	0.00006
	(!CK * D * SE * !SI)	-0.00003	-0.00003	-0.00003
	(!CK * D * SE * !SI)	0.00083	0.00085	0.00087
	(!CK * D * !SE * SI)	0.00110	0.00113	0.00115
	(!CK * D * !SE * SI)	0.00000	0.00000	0.00000
	(!CK * D * !SE * SI)	0.00001	0.00001	0.00002
	(!CK * D * !SE * SI)	0.00166	0.00168	0.00170
	(!CK * D * !SE * !SI)	0.00110	0.00113	0.00115
	(!CK * D * !SE * !SI)	0.00000	0.00000	0.00000
	(!CK * D * !SE * !SI)	0.00001	0.00001	0.00002
	(!CK * D * !SE * !SI)	0.00166	0.00168	0.00170
	(!CK * !D * SE * SI)	0.00110	0.00113	0.00116
	(!CK * !D * SE * SI)	0.00000	0.00000	0.00000
	(!CK * !D * SE * SI)	0.00001	0.00001	0.00002
	(!CK * !D * SE * SI)	0.00165	0.00168	0.00170
	(!CK * !D * SE * !SI)	0.00005	0.00007	0.00009
	(!CK * !D * SE * !SI)	0.00005	0.00005	0.00006
	(!CK * !D * SE * !SI)	-0.00003	-0.00003	-0.00003
	(!CK * !D * SE * !SI)	0.00083	0.00085	0.00087
	(!CK * !D * !SE * SI)	0.00005	0.00007	0.00009
	(!CK * !D * !SE * SI)	0.00004	0.00005	0.00006
	(!CK * !D * !SE * SI)	-0.00003	-0.00003	-0.00003
	(!CK * !D * !SE * SI)	0.00083	0.00085	0.00087
	(!CK * !D * !SE * !SI)	0.00005	0.00007	0.00009
	(!CK * !D * !SE * !SI)	0.00004	0.00005	0.00006
	(!CK * !D * !SE * !SI)	-0.00003	-0.00003	-0.00003
	(!CK * !D * !SE * !SI)	0.00083	0.00085	0.00087

Passive power(pJ) for RN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFRX1H7H	**(CK * D * SE * SI)**	0.00089	0.00091	0.00095
	(CK * D * SE * SI)	-0.00006	-0.00005	-0.00004
	(CK * D * SE * SI)	0.00003	0.00003	0.00004
	(CK * D * SE * SI)	0.00011	0.00013	0.00016
	(CK * D * SE * !SI)	0.00089	0.00091	0.00095
	(CK * D * SE * !SI)	-0.00006	-0.00005	-0.00004
	(CK * D * SE * !SI)	0.00003	0.00003	0.00004
	(CK * D * SE * !SI)	0.00011	0.00013	0.00016
	(CK * D * !SE * SI)	0.00089	0.00091	0.00095
	(CK * D * !SE * SI)	-0.00006	-0.00005	-0.00004
	(CK * D * !SE * SI)	0.00003	0.00003	0.00004
	(CK * D * !SE * SI)	0.00011	0.00013	0.00016
	(CK * D * !SE * !SI)	0.00089	0.00091	0.00095
	(CK * D * !SE * !SI)	-0.00006	-0.00005	-0.00004
	(CK * D * !SE * !SI)	0.00003	0.00003	0.00004
	(CK * D * !SE * !SI)	0.00011	0.00013	0.00016
	(CK * !D * SE * SI)	0.00089	0.00091	0.00095
	(CK * !D * SE * SI)	-0.00006	-0.00005	-0.00004
	(CK * !D * SE * SI)	0.00003	0.00003	0.00004
	(CK * !D * SE * SI)	0.00011	0.00013	0.00016
	(CK * !D * SE * !SI)	0.00089	0.00091	0.00095
	(CK * !D * SE * !SI)	-0.00006	-0.00005	-0.00004
	(CK * !D * SE * !SI)	0.00003	0.00003	0.00004
	(CK * !D * SE * !SI)	0.00011	0.00013	0.00016
	(CK * !D * !SE * SI)	0.00089	0.00091	0.00095
	(CK * !D * !SE * SI)	-0.00006	-0.00005	-0.00004
	(CK * !D * !SE * SI)	0.00003	0.00003	0.00004
	(CK * !D * !SE * SI)	0.00011	0.00013	0.00016
	(CK * !D * !SE * !SI)	0.00089	0.00091	0.00095
	(CK * !D * !SE * !SI)	-0.00006	-0.00005	-0.00004
	(CK * !D * !SE * !SI)	0.00003	0.00003	0.00004
	(CK * !D * !SE * !SI)	0.00011	0.00013	0.00016
	(!CK * D * SE * SI)	0.00090	0.00092	0.00095
	(!CK * D * SE * SI)	0.00000	0.00000	0.00000
	(!CK * D * SE * SI)	0.00003	0.00003	0.00004
	(!CK * D * SE * SI)	0.00012	0.00014	0.00017
	(!CK * D * SE * !SI)	0.00088	0.00091	0.00094
	(!CK * D * SE * !SI)	-0.00006	-0.00005	-0.00005
	(!CK * D * SE * !SI)	0.00003	0.00003	0.00003
	(!CK * D * SE * !SI)	0.00010	0.00013	0.00015
	(!CK * D * !SE * SI)	0.00090	0.00092	0.00095
	(!CK * D * !SE * SI)	0.00000	0.00000	0.00000
	(!CK * D * !SE * SI)	0.00003	0.00003	0.00003
	(!CK * D * !SE * SI)	0.00012	0.00014	0.00018
	(!CK * D * !SE * !SI)	0.00090	0.00092	0.00095
	(!CK * D * !SE * !SI)	0.00000	0.00000	0.00000
	(!CK * D * !SE * !SI)	0.00003	0.00003	0.00003
	(!CK * D * !SE * !SI)	0.00012	0.00014	0.00018
	(!CK * !D * SE * SI)	0.00090	0.00092	0.00095
	(!CK * !D * SE * SI)	0.00000	0.00000	0.00000
	(!CK * !D * SE * SI)	0.00003	0.00003	0.00004
	(!CK * !D * SE * SI)	0.00012	0.00014	0.00017
	(!CK * !D * SE * !SI)	0.00088	0.00091	0.00094
	(!CK * !D * SE * !SI)	-0.00006	-0.00005	-0.00005
	(!CK * !D * SE * !SI)	0.00003	0.00003	0.00003
	(!CK * !D * SE * !SI)	0.00010	0.00013	0.00015
	(!CK * !D * !SE * SI)	0.00088	0.00091	0.00094
	(!CK * !D * !SE * SI)	-0.00006	-0.00005	-0.00004
	(!CK * !D * !SE * SI)	0.00003	0.00003	0.00003
	(!CK * !D * !SE * SI)	0.00010	0.00013	0.00015
	(!CK * !D * !SE * !SI)	0.00088	0.00091	0.00094
	(!CK * !D * !SE * !SI)	-0.00006	-0.00005	-0.00004
	(!CK * !D * !SE * !SI)	0.00003	0.00003	0.00003
	(!CK * !D * !SE * !SI)	0.00010	0.00013	0.00015

Passive power(pJ) for SE rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFRX1H7H	**(CK * D * RN * SI)**	-0.00018	-0.00015	-0.00011
	(CK * D * RN * SI)	0.00002	0.00003	0.00003
	(CK * D * RN * SI)	-0.00004	-0.00003	-0.00002
	(CK * D * RN * SI)	0.00121	0.00124	0.00129
	(CK * D * RN * !SI)	0.00125	0.00131	0.00138
	(CK * D * RN * !SI)	-0.00014	-0.00012	-0.00011
	(CK * D * RN * !SI)	0.00010	0.00011	0.00012
	(CK * D * RN * !SI)	0.00204	0.00211	0.00218
	(CK * D * !RN * SI)	-0.00018	-0.00015	-0.00011
	(CK * D * !RN * SI)	0.00003	0.00003	0.00003
	(CK * D * !RN * SI)	-0.00003	-0.00002	-0.00000
	(CK * D * !RN * SI)	0.00121	0.00124	0.00126
	(CK * D * !RN * !SI)	0.00125	0.00131	0.00139
	(CK * D * !RN * !SI)	-0.00013	-0.00012	-0.00012
	(CK * D * !RN * !SI)	0.00010	0.00011	0.00012
	(CK * D * !RN * !SI)	0.00204	0.00211	0.00218
	(CK * !D * RN * SI)	-0.00016	-0.00011	-0.00004
	(CK * !D * RN * SI)	0.00018	0.00019	0.00019
	(CK * !D * RN * SI)	-0.00017	-0.00016	-0.00016
	(CK * !D * RN * SI)	0.00183	0.00188	0.00195
	(CK * !D * RN * !SI)	-0.00010	-0.00007	-0.00004
	(CK * !D * RN * !SI)	0.00003	0.00003	0.00005
	(CK * !D * RN * !SI)	-0.00003	-0.00003	-0.00001
	(CK * !D * RN * !SI)	0.00128	0.00130	0.00133
	(CK * !D * !RN * SI)	-0.00016	-0.00011	-0.00004
	(CK * !D * !RN * SI)	0.00018	0.00019	0.00019
	(CK * !D * !RN * SI)	-0.00017	-0.00016	-0.00016
	(CK * !D * !RN * SI)	0.00183	0.00188	0.00196
	(CK * !D * !RN * !SI)	-0.00010	-0.00007	-0.00002
	(CK * !D * !RN * !SI)	0.00001	0.00003	0.00003
	(CK * !D * !RN * !SI)	-0.00003	-0.00003	-0.00002
	(CK * !D * !RN * !SI)	0.00128	0.00131	0.00134
	(!CK * D * RN * SI)	-0.00009	-0.00007	-0.00002
	(!CK * D * RN * SI)	0.00003	0.00003	0.00003
	(!CK * D * RN * SI)	-0.00003	-0.00002	-0.00001
	(!CK * D * RN * SI)	0.00130	0.00133	0.00137
	(!CK * D * RN * !SI)	0.00250	0.00255	0.00261
	(!CK * D * RN * !SI)	-0.00011	-0.00010	-0.00009
	(!CK * D * RN * !SI)	0.00006	0.00008	0.00009
	(!CK * D * RN * !SI)	0.00333	0.00338	0.00346
	(!CK * D * !RN * SI)	-0.00009	-0.00006	-0.00001
	(!CK * D * !RN * SI)	0.00001	0.00003	0.00003
	(!CK * D * !RN * SI)	-0.00004	-0.00003	-0.00001
	(!CK * D * !RN * SI)	0.00130	0.00132	0.00137
	(!CK * D * !RN * !SI)	0.00268	0.00274	0.00281
	(!CK * D * !RN * !SI)	-0.00015	-0.00014	-0.00012
	(!CK * D * !RN * !SI)	0.00011	0.00012	0.00014
	(!CK * D * !RN * !SI)	0.00338	0.00345	0.00352
	(!CK * !D * RN * SI)	0.00130	0.00135	0.00142
	(!CK * !D * RN * SI)	0.00016	0.00017	0.00017
	(!CK * !D * RN * SI)	-0.00016	-0.00015	-0.00012
	(!CK * !D * RN * SI)	0.00326	0.00331	0.00336
	(!CK * !D * RN * !SI)	-0.00002	0.00001	0.00005
	(!CK * !D * RN * !SI)	0.00003	0.00003	0.00003
	(!CK * !D * RN * !SI)	-0.00003	-0.00003	-0.00002
	(!CK * !D * RN * !SI)	0.00136	0.00139	0.00141
	(!CK * !D * !RN * SI)	0.00028	0.00034	0.00040
	(!CK * !D * !RN * SI)	0.00031	0.00031	0.00031
	(!CK * !D * !RN * SI)	-0.00020	-0.00019	-0.00018
	(!CK * !D * !RN * SI)	0.00248	0.00253	0.00260
	(!CK * !D * !RN * !SI)	-0.00002	0.00001	0.00006
	(!CK * !D * !RN * !SI)	0.00001	0.00003	0.00003
	(!CK * !D * !RN * !SI)	-0.00003	-0.00003	-0.00003
	(!CK * !D * !RN * !SI)	0.00136	0.00139	0.00141

Passive power(pJ) for SE falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFRX1H7H	**(CK * D * RN * SI)**	0.00128	0.00131	0.00133
	(CK * D * RN * SI)	-0.00003	-0.00002	-0.00001
	(CK * D * RN * SI)	0.00002	0.00003	0.00004
	(CK * D * RN * SI)	-0.00011	-0.00008	-0.00005
	(CK * D * RN * !SI)	0.00184	0.00187	0.00192
	(CK * D * RN * !SI)	0.00011	0.00013	0.00014
	(CK * D * RN * !SI)	-0.00011	-0.00010	-0.00010
	(CK * D * RN * !SI)	0.00104	0.00108	0.00111
	(CK * D * !RN * SI)	0.00128	0.00131	0.00135
	(CK * D * !RN * SI)	-0.00003	-0.00003	-0.00003
	(CK * D * !RN * SI)	0.00002	0.00003	0.00004
	(CK * D * !RN * SI)	-0.00011	-0.00008	-0.00005
	(CK * D * !RN * !SI)	0.00183	0.00186	0.00191
	(CK * D * !RN * !SI)	0.00012	0.00012	0.00014
	(CK * D * !RN * !SI)	-0.00011	-0.00010	-0.00009
	(CK * D * !RN * !SI)	0.00104	0.00107	0.00111
	(CK * !D * RN * SI)	0.00201	0.00206	0.00212
	(CK * !D * RN * SI)	-0.00019	-0.00018	-0.00017
	(CK * !D * RN * SI)	0.00016	0.00017	0.00017
	(CK * !D * RN * SI)	0.00002	0.00007	0.00015
	(CK * !D * RN * !SI)	0.00119	0.00122	0.00127
	(CK * !D * RN * !SI)	-0.00005	-0.00003	-0.00002
	(CK * !D * RN * !SI)	0.00003	0.00003	0.00003
	(CK * !D * RN * !SI)	-0.00019	-0.00017	-0.00013
	(CK * !D * !RN * SI)	0.00201	0.00206	0.00212
	(CK * !D * !RN * SI)	-0.00019	-0.00018	-0.00018
	(CK * !D * !RN * SI)	0.00016	0.00016	0.00017
	(CK * !D * !RN * SI)	0.00002	0.00007	0.00015
	(CK * !D * !RN * !SI)	0.00119	0.00122	0.00127
	(CK * !D * !RN * !SI)	-0.00003	-0.00003	-0.00001
	(CK * !D * !RN * !SI)	0.00003	0.00003	0.00003
	(CK * !D * !RN * !SI)	-0.00019	-0.00017	-0.00013
	(!CK * D * RN * SI)	0.00120	0.00123	0.00127
	(!CK * D * RN * SI)	-0.00003	-0.00003	-0.00002
	(!CK * D * RN * SI)	0.00001	0.00003	0.00003
	(!CK * D * RN * SI)	-0.00019	-0.00016	-0.00011
	(!CK * D * RN * !SI)	0.00311	0.00313	0.00318
	(!CK * D * RN * !SI)	0.00009	0.00010	0.00011
	(!CK * D * RN * !SI)	-0.00009	-0.00008	-0.00006
	(!CK * D * RN * !SI)	0.00228	0.00231	0.00234
	(!CK * D * !RN * SI)	0.00120	0.00122	0.00126
	(!CK * D * !RN * SI)	-0.00003	-0.00003	-0.00001
	(!CK * D * !RN * SI)	0.00002	0.00003	0.00004
	(!CK * D * !RN * SI)	-0.00019	-0.00016	-0.00012
	(!CK * D * !RN * !SI)	0.00209	0.00211	0.00215
	(!CK * D * !RN * !SI)	0.00024	0.00025	0.00026
	(!CK * D * !RN * !SI)	-0.00014	-0.00012	-0.00011
	(!CK * D * !RN * !SI)	0.00151	0.00153	0.00157
	(!CK * !D * RN * SI)	0.00311	0.00316	0.00323
	(!CK * !D * RN * SI)	-0.00017	-0.00016	-0.00016
	(!CK * !D * RN * SI)	0.00014	0.00015	0.00016
	(!CK * !D * RN * SI)	0.00115	0.00120	0.00129
	(!CK * !D * RN * !SI)	0.00111	0.00113	0.00117
	(!CK * !D * RN * !SI)	-0.00003	-0.00003	-0.00001
	(!CK * !D * RN * !SI)	0.00003	0.00003	0.00004
	(!CK * !D * RN * !SI)	-0.00028	-0.00025	-0.00020
	(!CK * !D * !RN * SI)	0.00333	0.00339	0.00345
	(!CK * !D * !RN * SI)	-0.00021	-0.00020	-0.00019
	(!CK * !D * !RN * SI)	0.00018	0.00019	0.00020
	(!CK * !D * !RN * SI)	0.00128	0.00133	0.00140
	(!CK * !D * !RN * !SI)	0.00111	0.00114	0.00117
	(!CK * !D * !RN * !SI)	-0.00003	-0.00003	-0.00001
	(!CK * !D * !RN * !SI)	0.00003	0.00003	0.00004
	(!CK * !D * !RN * !SI)	-0.00028	-0.00025	-0.00020

Passive power(pJ) for SI rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFRX1H7H	**(CK * D * RN * SE)**	0.00006	0.00007	0.00008
	(CK * D * RN * SE)	0.00017	0.00017	0.00018
	(CK * D * RN * SE)	-0.00015	-0.00015	-0.00014
	(CK * D * RN * SE)	0.00121	0.00122	0.00123
	(CK * D * RN * !SE)	-0.00018	-0.00017	-0.00015
	(CK * D * RN * !SE)	-0.00002	-0.00002	-0.00002
	(CK * D * RN * !SE)	0.00002	0.00002	0.00002
	(CK * D * RN * !SE)	0.00022	0.00022	0.00022
	(CK * D * !RN * SE)	0.00006	0.00007	0.00008
	(CK * D * !RN * SE)	0.00017	0.00018	0.00018
	(CK * D * !RN * SE)	-0.00015	-0.00015	-0.00014
	(CK * D * !RN * SE)	0.00121	0.00122	0.00123
	(CK * D * !RN * !SE)	-0.00018	-0.00017	-0.00015
	(CK * D * !RN * !SE)	-0.00002	-0.00002	-0.00002
	(CK * D * !RN * !SE)	0.00002	0.00002	0.00002
	(CK * D * !RN * !SE)	0.00022	0.00022	0.00022
	(CK * !D * RN * SE)	0.00006	0.00007	0.00008
	(CK * !D * RN * SE)	0.00017	0.00017	0.00018
	(CK * !D * RN * SE)	-0.00015	-0.00015	-0.00014
	(CK * !D * RN * SE)	0.00122	0.00122	0.00123
	(CK * !D * RN * !SE)	-0.00018	-0.00017	-0.00016
	(CK * !D * RN * !SE)	-0.00003	-0.00003	-0.00002
	(CK * !D * RN * !SE)	0.00001	0.00002	0.00002
	(CK * !D * RN * !SE)	0.00022	0.00022	0.00022
	(CK * !D * !RN * SE)	0.00006	0.00007	0.00008
	(CK * !D * !RN * SE)	0.00017	0.00017	0.00018
	(CK * !D * !RN * SE)	-0.00015	-0.00015	-0.00014
	(CK * !D * !RN * SE)	0.00121	0.00122	0.00123
	(CK * !D * !RN * !SE)	-0.00018	-0.00017	-0.00016
	(CK * !D * !RN * !SE)	-0.00003	-0.00003	-0.00002
	(CK * !D * !RN * !SE)	0.00001	0.00002	0.00002
	(CK * !D * !RN * !SE)	0.00022	0.00022	0.00022
	(!CK * D * RN * SE)	0.00143	0.00144	0.00145
	(!CK * D * RN * SE)	0.00015	0.00015	0.00017
	(!CK * D * RN * SE)	-0.00014	-0.00013	-0.00013
	(!CK * D * RN * SE)	0.00255	0.00256	0.00257
	(!CK * D * RN * !SE)	-0.00018	-0.00017	-0.00015
	(!CK * D * RN * !SE)	-0.00002	-0.00002	-0.00002
	(!CK * D * RN * !SE)	0.00001	0.00002	0.00002
	(!CK * D * RN * !SE)	0.00022	0.00022	0.00023
	(!CK * D * !RN * SE)	0.00041	0.00042	0.00044
	(!CK * D * !RN * SE)	0.00028	0.00029	0.00030
	(!CK * D * !RN * SE)	-0.00014	-0.00013	-0.00013
	(!CK * D * !RN * SE)	0.00177	0.00179	0.00180
	(!CK * D * !RN * !SE)	-0.00018	-0.00017	-0.00016
	(!CK * D * !RN * !SE)	-0.00002	-0.00002	-0.00002
	(!CK * D * !RN * !SE)	0.00001	0.00002	0.00002
	(!CK * D * !RN * !SE)	0.00022	0.00022	0.00023
	(!CK * !D * RN * SE)	0.00143	0.00144	0.00145
	(!CK * !D * RN * SE)	0.00015	0.00015	0.00017
	(!CK * !D * RN * SE)	-0.00014	-0.00013	-0.00013
	(!CK * !D * RN * SE)	0.00255	0.00257	0.00258
	(!CK * !D * RN * !SE)	-0.00018	-0.00017	-0.00016
	(!CK * !D * RN * !SE)	-0.00003	-0.00002	-0.00002
	(!CK * !D * RN * !SE)	0.00001	0.00002	0.00002
	(!CK * !D * RN * !SE)	0.00022	0.00022	0.00023
	(!CK * !D * !RN * SE)	0.00041	0.00042	0.00043
	(!CK * !D * !RN * SE)	0.00029	0.00030	0.00030
	(!CK * !D * !RN * SE)	-0.00014	-0.00013	-0.00012
	(!CK * !D * !RN * SE)	0.00177	0.00179	0.00180
	(!CK * !D * !RN * !SE)	-0.00018	-0.00017	-0.00016
	(!CK * !D * !RN * !SE)	-0.00003	-0.00002	-0.00002
	(!CK * !D * !RN * !SE)	0.00001	0.00002	0.00002
	(!CK * !D * !RN * !SE)	0.00022	0.00022	0.00023

Passive power(pJ) for SI falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFRX1H7H	**(CK * D * RN * SE)**	0.00160	0.00162	0.00163
	(CK * D * RN * SE)	-0.00018	-0.00017	-0.00017
	(CK * D * RN * SE)	0.00015	0.00015	0.00015
	(CK * D * RN * SE)	0.00045	0.00047	0.00048
	(CK * D * RN * !SE)	0.00017	0.00017	0.00018
	(CK * D * RN * !SE)	0.00002	0.00002	0.00002
	(CK * D * RN * !SE)	-0.00002	-0.00002	-0.00002
	(CK * D * RN * !SE)	-0.00022	-0.00021	-0.00020
	(CK * D * !RN * SE)	0.00160	0.00162	0.00165
	(CK * D * !RN * SE)	-0.00018	-0.00018	-0.00017
	(CK * D * !RN * SE)	0.00015	0.00015	0.00015
	(CK * D * !RN * SE)	0.00045	0.00046	0.00048
	(CK * D * !RN * !SE)	0.00017	0.00017	0.00018
	(CK * D * !RN * !SE)	0.00002	0.00002	0.00002
	(CK * D * !RN * !SE)	-0.00002	-0.00002	-0.00002
	(CK * D * !RN * !SE)	-0.00022	-0.00021	-0.00020
	(CK * !D * RN * SE)	0.00160	0.00161	0.00163
	(CK * !D * RN * SE)	-0.00018	-0.00017	-0.00017
	(CK * !D * RN * SE)	0.00015	0.00015	0.00015
	(CK * !D * RN * SE)	0.00045	0.00046	0.00048
	(CK * !D * RN * !SE)	0.00018	0.00018	0.00018
	(CK * !D * RN * !SE)	0.00002	0.00003	0.00003
	(CK * !D * RN * !SE)	-0.00002	-0.00002	-0.00001
	(CK * !D * RN * !SE)	-0.00022	-0.00021	-0.00020
	(CK * !D * !RN * SE)	0.00160	0.00162	0.00165
	(CK * !D * !RN * SE)	-0.00018	-0.00017	-0.00017
	(CK * !D * !RN * SE)	0.00015	0.00015	0.00015
	(CK * !D * !RN * SE)	0.00045	0.00046	0.00048
	(CK * !D * !RN * !SE)	0.00018	0.00018	0.00018
	(CK * !D * !RN * !SE)	0.00002	0.00003	0.00003
	(CK * !D * !RN * !SE)	-0.00002	-0.00002	-0.00001
	(CK * !D * !RN * !SE)	-0.00022	-0.00021	-0.00020
	(!CK * D * RN * SE)	0.00276	0.00279	0.00280
	(!CK * D * RN * SE)	-0.00015	-0.00015	-0.00015
	(!CK * D * RN * SE)	0.00013	0.00013	0.00015
	(!CK * D * RN * SE)	0.00166	0.00167	0.00169
	(!CK * D * RN * !SE)	0.00017	0.00017	0.00018
	(!CK * D * RN * !SE)	0.00002	0.00002	0.00002
	(!CK * D * RN * !SE)	-0.00002	-0.00002	-0.00001
	(!CK * D * RN * !SE)	-0.00022	-0.00021	-0.00020
	(!CK * D * !RN * SE)	0.00293	0.00295	0.00297
	(!CK * D * !RN * SE)	-0.00020	-0.00019	-0.00019
	(!CK * D * !RN * SE)	0.00013	0.00013	0.00014
	(!CK * D * !RN * SE)	0.00179	0.00180	0.00181
	(!CK * D * !RN * !SE)	0.00017	0.00017	0.00018
	(!CK * D * !RN * !SE)	0.00002	0.00002	0.00002
	(!CK * D * !RN * !SE)	-0.00002	-0.00002	-0.00001
	(!CK * D * !RN * !SE)	-0.00022	-0.00021	-0.00020
	(!CK * !D * RN * SE)	0.00276	0.00278	0.00280
	(!CK * !D * RN * SE)	-0.00015	-0.00015	-0.00015
	(!CK * !D * RN * SE)	0.00013	0.00014	0.00015
	(!CK * !D * RN * SE)	0.00165	0.00167	0.00168
	(!CK * !D * RN * !SE)	0.00018	0.00018	0.00018
	(!CK * !D * RN * !SE)	0.00002	0.00002	0.00003
	(!CK * !D * RN * !SE)	-0.00002	-0.00002	-0.00001
	(!CK * !D * RN * !SE)	-0.00022	-0.00021	-0.00020
	(!CK * !D * !RN * SE)	0.00293	0.00295	0.00296
	(!CK * !D * !RN * SE)	-0.00018	-0.00017	-0.00017
	(!CK * !D * !RN * SE)	0.00012	0.00013	0.00014
	(!CK * !D * !RN * SE)	0.00181	0.00182	0.00184
	(!CK * !D * !RN * !SE)	0.00018	0.00018	0.00018
	(!CK * !D * !RN * !SE)	0.00002	0.00002	0.00003
	(!CK * !D * !RN * !SE)	-0.00002	-0.00002	-0.00001
	(!CK * !D * !RN * !SE)	-0.00022	-0.00021	-0.00020

SDFFRX2H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Negative Edge Trigger Scan D Flip-Flop with Async Clear
Q = !RN ?0 : falling (CKN) ?(SE&SI|!SE&D) : prev_Q
QN = !Q

Truth Table

INPUT					OUTPUT	
CK	D	RN	SE	SI	Q	QN
R	0	1	0	x	0	1
R	x	1	1	0	0	1
R	x	1	1	1	1	0
R	1	1	0	x	1	0
x	x	0	x	x	0	1
x	x	1	x	x	IQ	IQN

Footprint

Cell Name	Area
SDFFRX2H7H	10.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)	
	CK	D	RN	SE	SI	Q	QN
SDFFRX2H7H	0.00119	0.00089	0.00237	0.00232	0.00084	0.05630	0.05724

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
SDFFRX2H7H	0.00000	0.10813	0.12403

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFRX2H7H	CK->Q (RR)	-	0.16989	0.36400	0.80863

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFRX2H7H	CK->Q (RF)	-	0.12641	0.28241	0.62659
	RN->Q (FF)	(CK * D * SE * SI)	0.06906	0.21393	0.55683
	RN->Q (FF)	(CK * D * SE * !SI)	0.06906	0.21393	0.55684
	RN->Q (FF)	(CK * D * !SE * SI)	0.06906	0.21393	0.55683
	RN->Q (FF)	(CK * D * !SE * !SI)	0.06906	0.21393	0.55683
	RN->Q (FF)	(CK * !D * SE * SI)	0.06906	0.21393	0.55684
	RN->Q (FF)	(CK * !D * SE * !SI)	0.06906	0.21392	0.55684
	RN->Q (FF)	(CK * !D * !SE * SI)	0.06906	0.21393	0.55684
	RN->Q (FF)	(CK * !D * !SE * !SI)	0.06906	0.21393	0.55684
	RN->Q (FF)	(!CK * D * SE * SI)	0.09296	0.25382	0.63330
	RN->Q (FF)	(!CK * D * SE * !SI)	0.09283	0.25351	0.63281
	RN->Q (FF)	(!CK * D * !SE * SI)	0.09296	0.25381	0.63330
	RN->Q (FF)	(!CK * D * !SE * !SI)	0.09296	0.25381	0.63330
	RN->Q (FF)	(!CK * !D * SE * SI)	0.09296	0.25382	0.63330
	RN->Q (FF)	(!CK * !D * SE * !SI)	0.09282	0.25352	0.63269
	RN->Q (FF)	(!CK * !D * !SE * SI)	0.09282	0.25352	0.63278
	RN->Q (FF)	(!CK * !D * !SE * !SI)	0.09282	0.25352	0.63319

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFRX2H7H	CK->QN (RR)	-	0.19073	0.36669	0.80568
	RN->QN (FR)	(CK * D * SE * SI)	0.11727	0.29727	0.74014
	RN->QN (FR)	(CK * D * SE * !SI)	0.11727	0.29727	0.74015
	RN->QN (FR)	(CK * D * !SE * SI)	0.11727	0.29727	0.74014
	RN->QN (FR)	(CK * D * !SE * !SI)	0.11727	0.29727	0.74014
	RN->QN (FR)	(CK * !D * SE * SI)	0.11727	0.29727	0.74014
	RN->QN (FR)	(CK * !D * SE * !SI)	0.11728	0.29727	0.74015
	RN->QN (FR)	(CK * !D * !SE * SI)	0.11727	0.29727	0.74015
	RN->QN (FR)	(CK * !D * !SE * !SI)	0.11727	0.29727	0.74015
	RN->QN (FR)	(!CK * D * SE * SI)	0.15466	0.34057	0.81259
	RN->QN (FR)	(!CK * D * SE * !SI)	0.15458	0.34029	0.81208
	RN->QN (FR)	(!CK * D * !SE * SI)	0.15466	0.34057	0.81259
	RN->QN (FR)	(!CK * D * !SE * !SI)	0.15466	0.34057	0.81259
	RN->QN (FR)	(!CK * !D * SE * SI)	0.15466	0.34057	0.81259
	RN->QN (FR)	(!CK * !D * SE * !SI)	0.15458	0.34030	0.81208
	RN->QN (FR)	(!CK * !D * !SE * SI)	0.15458	0.34029	0.81208
	RN->QN (FR)	(!CK * !D * !SE * !SI)	0.15458	0.34029	0.81208

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFRX2H7H	CK->QN (RF)	-	0.23320	0.37386	0.70587

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
SDFFRX2H7H	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRX2H7H	**hold**	**CK (R)**	-0.20373	-0.02788	0.13542
	setup	**CK (R)**	-0.08965	0.10207	0.29813

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRX2H7H	**hold**	**CK (R)**	-0.31178	-0.13462	-0.01434
	setup	**CK (R)**	0.04558	0.17448	0.35931

Min Pulse Width (ns) for RN:

Cell Name	High	Low
SDFFRX2H7H	-	0.9851

Constraints(ns) for RN rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRX2H7H	**hold**	**CK (R)**	0.00115	0.10557	0.27641
	setup	**CK (R)**	-0.23740	-0.01201	0.31778

Constraints(ns) for SE rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRX2H7H	hold	CK (R)	-0.15449	-0.01159	0.13853
	setup	CK (R)	0.07633	0.18601	0.31606

Constraints(ns) for SE falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRX2H7H	hold	CK (R)	-0.21377	-0.04710	0.12022
	setup	CK (R)	0.01452	0.14389	0.30129

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRX2H7H	hold	CK (R)	-0.21513	-0.03299	0.13336
	setup	CK (R)	-0.08584	0.10761	0.30982

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRX2H7H	hold	CK (R)	-0.31940	-0.14234	-0.01998
	setup	CK (R)	0.05132	0.18285	0.36986

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFRX2H7H	CK	-	0.00254	0.00262	0.00269
	CK	-	0.00001	0.00003	0.00005
	CK	-	-0.00003	-0.00001	0.00000
	CK	-	0.00309	0.00317	0.00324

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

SDFFRX2H7H	CK	-	0.00254	0.00265	0.00275
	CK	-	-0.00005	-0.00003	-0.00001
	CK	-	0.00000	0.00001	0.00003
	CK	-	0.00283	0.00294	0.00303
	RN	(CK * D * SE * SI)	0.00275	0.00288	0.00300
	RN	(CK * D * SE * SI)	-0.00005	-0.00005	-0.00004
	RN	(CK * D * SE * SI)	-0.00005	-0.00003	-0.00000
	RN	(CK * D * SE * SI)	0.00191	0.00205	0.00216
	RN	(CK * D * SE * !SI)	0.00275	0.00288	0.00300
	RN	(CK * D * SE * !SI)	-0.00006	-0.00005	-0.00005
	RN	(CK * D * SE * !SI)	-0.00005	-0.00003	-0.00002
	RN	(CK * D * SE * !SI)	0.00191	0.00205	0.00216
	RN	(CK * D * !SE * SI)	0.00275	0.00288	0.00300
	RN	(CK * D * !SE * SI)	-0.00006	-0.00005	-0.00004
	RN	(CK * D * !SE * SI)	-0.00005	-0.00003	-0.00003
	RN	(CK * D * !SE * SI)	0.00191	0.00205	0.00216
	RN	(CK * D * !SE * !SI)	0.00275	0.00288	0.00300
	RN	(CK * D * !SE * !SI)	-0.00006	-0.00005	-0.00004
	RN	(CK * D * !SE * !SI)	-0.00005	-0.00003	-0.00002
	RN	(CK * D * !SE * !SI)	0.00191	0.00205	0.00216
	RN	(CK * !D * SE * SI)	0.00275	0.00288	0.00300
	RN	(CK * !D * SE * SI)	-0.00005	-0.00005	-0.00004
	RN	(CK * !D * SE * SI)	-0.00005	-0.00003	-0.00000
	RN	(CK * !D * SE * SI)	0.00191	0.00205	0.00216
	RN	(CK * !D * SE * !SI)	0.00275	0.00288	0.00300
	RN	(CK * !D * SE * !SI)	-0.00006	-0.00005	-0.00005
	RN	(CK * !D * SE * !SI)	-0.00005	-0.00003	-0.00003
	RN	(CK * !D * SE * !SI)	0.00191	0.00205	0.00216
	RN	(CK * !D * !SE * SI)	0.00275	0.00288	0.00299
	RN	(CK * !D * !SE * SI)	-0.00006	-0.00004	0.00000
	RN	(CK * !D * !SE * SI)	-0.00005	-0.00003	-0.00003
	RN	(CK * !D * !SE * SI)	0.00191	0.00205	0.00217
	RN	(CK * !D * !SE * !SI)	0.00275	0.00288	0.00299
	RN	(CK * !D * !SE * !SI)	-0.00006	-0.00004	0.00000
	RN	(CK * !D * !SE * !SI)	-0.00005	-0.00003	-0.00003
	RN	(CK * !D * !SE * !SI)	0.00191	0.00205	0.00217
	RN	(!CK * D * SE * SI)	0.00250	0.00261	0.00272
	RN	(!CK * D * SE * SI)	-0.00015	-0.00013	-0.00012
	RN	(!CK * D * SE * SI)	0.00004	0.00007	0.00010
	RN	(!CK * D * SE * SI)	0.00146	0.00156	0.00167
	RN	(!CK * D * SE * !SI)	0.00205	0.00215	0.00224
	RN	(!CK * D * SE * !SI)	-0.00006	-0.00004	-0.00001
	RN	(!CK * D * SE * !SI)	-0.00001	0.00001	0.00003
	RN	(!CK * D * SE * !SI)	0.00131	0.00141	0.00149
	RN	(!CK * D * !SE * SI)	0.00249	0.00261	0.00272
	RN	(!CK * D * !SE * SI)	-0.00015	-0.00013	-0.00011
	RN	(!CK * D * !SE * SI)	0.00005	0.00007	0.00009
	RN	(!CK * D * !SE * SI)	0.00145	0.00156	0.00168
	RN	(!CK * D * !SE * !SI)	0.00249	0.00261	0.00272
	RN	(!CK * D * !SE * !SI)	-0.00015	-0.00013	-0.00011
	RN	(!CK * D * !SE * !SI)	0.00005	0.00007	0.00009
	RN	(!CK * D * !SE * !SI)	0.00145	0.00156	0.00168
	RN	(!CK * !D * SE * SI)	0.00250	0.00261	0.00272
	RN	(!CK * !D * SE * SI)	-0.00015	-0.00013	-0.00012
	RN	(!CK * !D * SE * SI)	0.00005	0.00007	0.00010
	RN	(!CK * !D * SE * SI)	0.00146	0.00156	0.00167
	RN	(!CK * !D * SE * !SI)	0.00205	0.00215	0.00224
	RN	(!CK * !D * SE * !SI)	-0.00006	-0.00004	-0.00003
	RN	(!CK * !D * SE * !SI)	-0.00002	0.00001	0.00003
	RN	(!CK * !D * SE * !SI)	0.00131	0.00141	0.00150
	RN	(!CK * !D * !SE * SI)	0.00205	0.00215	0.00224
	RN	(!CK * !D * !SE * SI)	-0.00007	-0.00004	-0.00003
	RN	(!CK * !D * !SE * SI)	-0.00000	0.00001	0.00003
	RN	(!CK * !D * !SE * SI)	0.00131	0.00141	0.00149
	RN	(!CK * !D * !SE * !SI)	0.00205	0.00215	0.00224
	RN	(!CK * !D * !SE * !SI)	-0.00007	-0.00005	-0.00003
	RN	(!CK * !D * !SE * !SI)	-0.00001	0.00001	0.00003
	RN	(!CK * !D * !SE * !SI)	0.00131	0.00141	0.00149

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

SDFFRX2H7H	CK	-	0.00254	0.00265	0.00275
	CK	-	-0.00003	-0.00003	-0.00001
	CK	-	0.00001	0.00001	0.00002
	CK	-	0.00283	0.00294	0.00303
	RN	(CK * D * SE * SI)	0.00275	0.00288	0.00300
	RN	(CK * D * SE * SI)	-0.00005	-0.00005	-0.00005
	RN	(CK * D * SE * SI)	-0.00006	-0.00003	-0.00003
	RN	(CK * D * SE * SI)	0.00191	0.00205	0.00217
	RN	(CK * D * SE * !SI)	0.00275	0.00288	0.00300
	RN	(CK * D * SE * !SI)	-0.00005	-0.00005	-0.00005
	RN	(CK * D * SE * !SI)	-0.00004	-0.00003	-0.00003
	RN	(CK * D * SE * !SI)	0.00191	0.00205	0.00217
	RN	(CK * D * !SE * SI)	0.00275	0.00288	0.00300
	RN	(CK * D * !SE * SI)	-0.00005	-0.00005	-0.00005
	RN	(CK * D * !SE * SI)	-0.00004	-0.00003	-0.00001
	RN	(CK * D * !SE * SI)	0.00191	0.00205	0.00217
	RN	(CK * D * !SE * !SI)	0.00275	0.00288	0.00300
	RN	(CK * D * !SE * !SI)	-0.00005	-0.00005	-0.00005
	RN	(CK * D * !SE * !SI)	-0.00004	-0.00003	-0.00003
	RN	(CK * D * !SE * !SI)	0.00191	0.00205	0.00217
	RN	(CK * !D * SE * SI)	0.00275	0.00288	0.00300
	RN	(CK * !D * SE * SI)	-0.00005	-0.00005	-0.00005
	RN	(CK * !D * SE * SI)	-0.00004	-0.00003	-0.00003
	RN	(CK * !D * SE * SI)	0.00191	0.00205	0.00217
	RN	(CK * !D * SE * !SI)	0.00275	0.00288	0.00300
	RN	(CK * !D * SE * !SI)	-0.00005	-0.00005	-0.00005
	RN	(CK * !D * SE * !SI)	-0.00004	-0.00003	-0.00003
	RN	(CK * !D * SE * !SI)	0.00191	0.00205	0.00217
	RN	(CK * !D * !SE * SI)	0.00275	0.00288	0.00300
	RN	(CK * !D * !SE * SI)	-0.00005	-0.00005	-0.00004
	RN	(CK * !D * !SE * SI)	-0.00004	-0.00003	-0.00003
	RN	(CK * !D * !SE * SI)	0.00191	0.00205	0.00217
	RN	(CK * !D * !SE * !SI)	0.00275	0.00288	0.00300
	RN	(CK * !D * !SE * !SI)	-0.00005	-0.00005	-0.00004
	RN	(CK * !D * !SE * !SI)	-0.00004	-0.00003	-0.00003
	RN	(CK * !D * !SE * !SI)	0.00191	0.00205	0.00217
	RN	(!CK * D * SE * SI)	0.00250	0.00261	0.00272
	RN	(!CK * D * SE * SI)	-0.00018	-0.00013	-0.00013
	RN	(!CK * D * SE * SI)	0.00007	0.00007	0.00009
	RN	(!CK * D * SE * SI)	0.00146	0.00156	0.00168
	RN	(!CK * D * SE * !SI)	0.00205	0.00215	0.00224
	RN	(!CK * D * SE * !SI)	-0.00006	-0.00004	-0.00003
	RN	(!CK * D * SE * !SI)	-0.00003	0.00001	0.00003
	RN	(!CK * D * SE * !SI)	0.00131	0.00141	0.00150
	RN	(!CK * D * !SE * SI)	0.00250	0.00261	0.00272
	RN	(!CK * D * !SE * SI)	-0.00018	-0.00013	-0.00013
	RN	(!CK * D * !SE * SI)	0.00005	0.00007	0.00008
	RN	(!CK * D * !SE * SI)	0.00146	0.00156	0.00167
	RN	(!CK * D * !SE * !SI)	0.00250	0.00261	0.00272
	RN	(!CK * D * !SE * !SI)	-0.00018	-0.00013	-0.00013
	RN	(!CK * D * !SE * !SI)	0.00007	0.00007	0.00009
	RN	(!CK * D * !SE * !SI)	0.00146	0.00156	0.00167
	RN	(!CK * !D * SE * SI)	0.00250	0.00261	0.00272
	RN	(!CK * !D * SE * SI)	-0.00018	-0.00013	-0.00013
	RN	(!CK * !D * SE * SI)	0.00005	0.00007	0.00009
	RN	(!CK * !D * SE * SI)	0.00146	0.00156	0.00168
	RN	(!CK * !D * SE * !SI)	0.00205	0.00215	0.00224
	RN	(!CK * !D * SE * !SI)	-0.00004	-0.00004	-0.00003
	RN	(!CK * !D * SE * !SI)	-0.00000	0.00001	0.00003
	RN	(!CK * !D * SE * !SI)	0.00131	0.00141	0.00149
	RN	(!CK * !D * !SE * SI)	0.00205	0.00215	0.00224
	RN	(!CK * !D * !SE * SI)	-0.00004	-0.00004	-0.00003
	RN	(!CK * !D * !SE * SI)	-0.00000	0.00001	0.00005
	RN	(!CK * !D * !SE * SI)	0.00131	0.00141	0.00150
	RN	(!CK * !D * !SE * !SI)	0.00205	0.00215	0.00224
	RN	(!CK * !D * !SE * !SI)	-0.00004	-0.00004	-0.00003
	RN	(!CK * !D * !SE * !SI)	0.00000	0.00001	0.00005
	RN	(!CK * !D * !SE * !SI)	0.00131	0.00141	0.00150

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFRX2H7H	CK	-	0.00254	0.00262	0.00269
	CK	-	0.00001	0.00003	0.00003
	CK	-	-0.00002	-0.00001	-0.00001
	CK	-	0.00310	0.00317	0.00324

Passive power(pJ) for CK rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFRX2H7H	**(D * RN * SE * SI)**	0.00187	0.00193	0.00200
	(D * RN * SE * SI)	-0.00002	-0.00001	-0.00000
	(D * RN * SE * SI)	-0.00000	-0.00000	0.00000
	(D * RN * SE * SI)	0.00271	0.00276	0.00282
	(D * RN * SE * !SI)	0.00193	0.00199	0.00206
	(D * RN * SE * !SI)	-0.00001	-0.00001	-0.00001
	(D * RN * SE * !SI)	-0.00002	-0.00001	-0.00000
	(D * RN * SE * !SI)	0.00277	0.00283	0.00290
	(D * RN * !SE * SI)	0.00195	0.00201	0.00208
	(D * RN * !SE * SI)	-0.00002	-0.00001	-0.00000
	(D * RN * !SE * SI)	-0.00000	-0.00000	0.00000
	(D * RN * !SE * SI)	0.00279	0.00285	0.00292
	(D * RN * !SE * !SI)	0.00196	0.00201	0.00208
	(D * RN * !SE * !SI)	-0.00002	-0.00001	-0.00000
	(D * RN * !SE * !SI)	-0.00000	-0.00000	0.00000
	(D * RN * !SE * !SI)	0.00279	0.00285	0.00292
	(D * !RN * SE * SI)	0.00252	0.00260	0.00268
	(D * !RN * SE * SI)	0.00010	0.00011	0.00012
	(D * !RN * SE * SI)	-0.00012	-0.00012	-0.00012
	(D * !RN * SE * SI)	0.00364	0.00371	0.00379
	(D * !RN * SE * !SI)	0.00193	0.00199	0.00206
	(D * !RN * SE * !SI)	-0.00002	-0.00001	-0.00001
	(D * !RN * SE * !SI)	-0.00001	-0.00001	-0.00001
	(D * !RN * SE * !SI)	0.00277	0.00283	0.00290
	(D * !RN * !SE * SI)	0.00261	0.00268	0.00276
	(D * !RN * !SE * SI)	0.00010	0.00011	0.00012
	(D * !RN * !SE * SI)	-0.00012	-0.00012	-0.00011
	(D * !RN * !SE * SI)	0.00372	0.00380	0.00388
	(D * !RN * !SE * !SI)	0.00261	0.00268	0.00276
	(D * !RN * !SE * !SI)	0.00010	0.00011	0.00012
	(D * !RN * !SE * !SI)	-0.00012	-0.00012	-0.00012
	(D * !RN * !SE * !SI)	0.00372	0.00380	0.00388
	(!D * RN * SE * SI)	0.00187	0.00193	0.00200
	(!D * RN * SE * SI)	-0.00002	-0.00001	-0.00000
	(!D * RN * SE * SI)	-0.00000	-0.00000	0.00000
	(!D * RN * SE * SI)	0.00271	0.00276	0.00282
	(!D * RN * SE * !SI)	0.00193	0.00199	0.00206
	(!D * RN * SE * !SI)	-0.00002	-0.00001	-0.00001
	(!D * RN * SE * !SI)	-0.00002	-0.00001	-0.00000
	(!D * RN * SE * !SI)	0.00277	0.00283	0.00290
	(!D * RN * !SE * SI)	0.00202	0.00208	0.00214
	(!D * RN * !SE * SI)	-0.00002	-0.00001	-0.00001
	(!D * RN * !SE * SI)	-0.00002	-0.00001	-0.00000
	(!D * RN * !SE * SI)	0.00285	0.00291	0.00298
	(!D * RN * !SE * !SI)	0.00202	0.00207	0.00214
	(!D * RN * !SE * !SI)	-0.00002	-0.00001	-0.00001
	(!D * RN * !SE * !SI)	-0.00002	-0.00001	-0.00000
	(!D * RN * !SE * !SI)	0.00285	0.00291	0.00298
	(!D * !RN * SE * SI)	0.00252	0.00260	0.00268
	(!D * !RN * SE * SI)	0.00010	0.00011	0.00012
	(!D * !RN * SE * SI)	-0.00013	-0.00012	-0.00012
	(!D * !RN * SE * SI)	0.00364	0.00371	0.00379
	(!D * !RN * SE * !SI)	0.00193	0.00199	0.00206
	(!D * !RN * SE * !SI)	-0.00002	-0.00001	-0.00001
	(!D * !RN * SE * !SI)	-0.00001	-0.00001	-0.00001
	(!D * !RN * SE * !SI)	0.00277	0.00283	0.00290
	(!D * !RN * !SE * SI)	0.00202	0.00208	0.00214
	(!D * !RN * !SE * SI)	-0.00002	-0.00001	-0.00001
	(!D * !RN * !SE * SI)	-0.00001	-0.00001	-0.00001
	(!D * !RN * !SE * SI)	0.00286	0.00291	0.00298
	(!D * !RN * !SE * !SI)	0.00202	0.00208	0.00215
	(!D * !RN * !SE * !SI)	-0.00002	-0.00001	-0.00001
	(!D * !RN * !SE * !SI)	-0.00001	-0.00001	-0.00001
	(!D * !RN * !SE * !SI)	0.00286	0.00291	0.00298

Passive power(pJ) for CK falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFRX2H7H	**(D * RN * SE * SI)**	0.00451	0.00459	0.00468
	(D * RN * SE * SI)	0.00002	0.00003	0.00004
	(D * RN * SE * SI)	-0.00000	0.00000	0.00000
	(D * RN * SE * SI)	0.00404	0.00411	0.00418
	(D * RN * SE * !SI)	0.00460	0.00470	0.00479
	(D * RN * SE * !SI)	0.00001	0.00002	0.00002
	(D * RN * SE * !SI)	0.00001	0.00002	0.00002
	(D * RN * SE * !SI)	0.00345	0.00355	0.00364
	(D * RN * !SE * SI)	0.00443	0.00450	0.00459
	(D * RN * !SE * SI)	0.00002	0.00003	0.00004
	(D * RN * !SE * SI)	0.00000	0.00000	0.00000
	(D * RN * !SE * SI)	0.00395	0.00402	0.00410
	(D * RN * !SE * !SI)	0.00443	0.00450	0.00459
	(D * RN * !SE * !SI)	0.00002	0.00003	0.00004
	(D * RN * !SE * !SI)	0.00000	0.00000	0.00000
	(D * RN * !SE * !SI)	0.00395	0.00402	0.00410
	(D * !RN * SE * SI)	0.00389	0.00395	0.00403
	(D * !RN * SE * SI)	-0.00011	-0.00011	-0.00010
	(D * !RN * SE * SI)	0.00012	0.00012	0.00012
	(D * !RN * SE * SI)	0.00279	0.00284	0.00292
	(D * !RN * SE * !SI)	0.00282	0.00287	0.00294
	(D * !RN * SE * !SI)	0.00001	0.00002	0.00002
	(D * !RN * SE * !SI)	0.00001	0.00001	0.00002
	(D * !RN * SE * !SI)	0.00198	0.00204	0.00211
	(D * !RN * !SE * SI)	0.00380	0.00387	0.00394
	(D * !RN * !SE * SI)	-0.00011	-0.00010	-0.00010
	(D * !RN * !SE * SI)	0.00011	0.00012	0.00012
	(D * !RN * !SE * SI)	0.00270	0.00276	0.00285
	(D * !RN * !SE * !SI)	0.00380	0.00387	0.00394
	(D * !RN * !SE * !SI)	-0.00011	-0.00010	-0.00010
	(D * !RN * !SE * !SI)	0.00012	0.00012	0.00012
	(D * !RN * !SE * !SI)	0.00270	0.00276	0.00284
	(!D * RN * SE * SI)	0.00451	0.00459	0.00468
	(!D * RN * SE * SI)	0.00002	0.00003	0.00004
	(!D * RN * SE * SI)	-0.00000	0.00000	0.00000
	(!D * RN * SE * SI)	0.00404	0.00411	0.00418
	(!D * RN * SE * !SI)	0.00460	0.00469	0.00479
	(!D * RN * SE * !SI)	0.00001	0.00002	0.00003
	(!D * RN * SE * !SI)	0.00002	0.00002	0.00003
	(!D * RN * SE * !SI)	0.00345	0.00354	0.00364
	(!D * RN * !SE * SI)	0.00451	0.00461	0.00469
	(!D * RN * !SE * SI)	0.00001	0.00002	0.00004
	(!D * RN * !SE * SI)	0.00001	0.00002	0.00003
	(!D * RN * !SE * SI)	0.00336	0.00346	0.00356
	(!D * RN * !SE * !SI)	0.00451	0.00461	0.00470
	(!D * RN * !SE * !SI)	0.00001	0.00002	0.00003
	(!D * RN * !SE * !SI)	0.00001	0.00002	0.00003
	(!D * RN * !SE * !SI)	0.00336	0.00346	0.00356
	(!D * !RN * SE * SI)	0.00389	0.00395	0.00403
	(!D * !RN * SE * SI)	-0.00011	-0.00011	-0.00010
	(!D * !RN * SE * SI)	0.00012	0.00012	0.00013
	(!D * !RN * SE * SI)	0.00278	0.00284	0.00292
	(!D * !RN * SE * !SI)	0.00282	0.00287	0.00294
	(!D * !RN * SE * !SI)	0.00001	0.00002	0.00002
	(!D * !RN * SE * !SI)	0.00001	0.00001	0.00002
	(!D * !RN * SE * !SI)	0.00198	0.00204	0.00211
	(!D * !RN * !SE * SI)	0.00274	0.00279	0.00285
	(!D * !RN * !SE * SI)	0.00001	0.00002	0.00002
	(!D * !RN * !SE * SI)	0.00001	0.00001	0.00002
	(!D * !RN * !SE * SI)	0.00190	0.00196	0.00203
	(!D * !RN * !SE * !SI)	0.00274	0.00279	0.00285
	(!D * !RN * !SE * !SI)	0.00001	0.00002	0.00002
	(!D * !RN * !SE * !SI)	0.00001	0.00001	0.00002
	(!D * !RN * !SE * !SI)	0.00190	0.00196	0.00203

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFRX2H7H	**(CK * RN * SE * SI)**	-0.00012	-0.00011	-0.00009
	(CK * RN * SE * SI)	-0.00003	-0.00003	-0.00003
	(CK * RN * SE * SI)	0.00002	0.00002	0.00002
	(CK * RN * SE * SI)	0.00033	0.00033	0.00033
	(CK * RN * SE * !SI)	-0.00016	-0.00015	-0.00013
	(CK * RN * SE * !SI)	-0.00003	-0.00003	-0.00003
	(CK * RN * SE * !SI)	0.00001	0.00002	0.00002
	(CK * RN * SE * !SI)	0.00029	0.00029	0.00030
	(CK * RN * !SE * SI)	0.00040	0.00042	0.00043
	(CK * RN * !SE * SI)	0.00017	0.00017	0.00018
	(CK * RN * !SE * SI)	-0.00014	-0.00014	-0.00013
	(CK * RN * !SE * SI)	0.00158	0.00161	0.00164
	(CK * RN * !SE * !SI)	0.00040	0.00042	0.00043
	(CK * RN * !SE * !SI)	0.00016	0.00017	0.00018
	(CK * RN * !SE * !SI)	-0.00014	-0.00014	-0.00013
	(CK * RN * !SE * !SI)	0.00158	0.00161	0.00164
	(CK * !RN * SE * SI)	-0.00012	-0.00011	-0.00009
	(CK * !RN * SE * SI)	-0.00003	-0.00003	-0.00003
	(CK * !RN * SE * SI)	0.00002	0.00002	0.00002
	(CK * !RN * SE * SI)	0.00033	0.00033	0.00033
	(CK * !RN * SE * !SI)	-0.00016	-0.00015	-0.00013
	(CK * !RN * SE * !SI)	-0.00003	-0.00003	-0.00003
	(CK * !RN * SE * !SI)	0.00001	0.00002	0.00002
	(CK * !RN * SE * !SI)	0.00029	0.00029	0.00030
	(CK * !RN * !SE * SI)	0.00040	0.00042	0.00043
	(CK * !RN * !SE * SI)	0.00016	0.00017	0.00018
	(CK * !RN * !SE * SI)	-0.00015	-0.00014	-0.00013
	(CK * !RN * !SE * SI)	0.00158	0.00161	0.00163
	(CK * !RN * !SE * !SI)	0.00040	0.00042	0.00043
	(CK * !RN * !SE * !SI)	0.00016	0.00017	0.00018
	(CK * !RN * !SE * !SI)	-0.00015	-0.00014	-0.00013
	(CK * !RN * !SE * !SI)	0.00158	0.00161	0.00163
	(!CK * RN * SE * SI)	-0.00012	-0.00011	-0.00009
	(!CK * RN * SE * SI)	-0.00003	-0.00003	-0.00003
	(!CK * RN * SE * SI)	0.00002	0.00002	0.00002
	(!CK * RN * SE * SI)	0.00033	0.00033	0.00033
	(!CK * RN * SE * !SI)	-0.00016	-0.00015	-0.00013
	(!CK * RN * SE * !SI)	-0.00003	-0.00003	-0.00003
	(!CK * RN * SE * !SI)	0.00001	0.00002	0.00002
	(!CK * RN * SE * !SI)	0.00029	0.00029	0.00030
	(!CK * RN * !SE * SI)	0.00214	0.00217	0.00221
	(!CK * RN * !SE * SI)	0.00014	0.00015	0.00016
	(!CK * RN * !SE * SI)	-0.00015	-0.00014	-0.00014
	(!CK * RN * !SE * SI)	0.00363	0.00367	0.00370
	(!CK * RN * !SE * !SI)	0.00214	0.00217	0.00221
	(!CK * RN * !SE * !SI)	0.00014	0.00015	0.00016
	(!CK * RN * !SE * !SI)	-0.00015	-0.00014	-0.00014
	(!CK * RN * !SE * !SI)	0.00363	0.00367	0.00370
	(!CK * !RN * SE * SI)	-0.00012	-0.00011	-0.00009
	(!CK * !RN * SE * SI)	-0.00003	-0.00003	-0.00003
	(!CK * !RN * SE * SI)	0.00002	0.00002	0.00002
	(!CK * !RN * SE * SI)	0.00033	0.00033	0.00033
	(!CK * !RN * SE * !SI)	-0.00016	-0.00015	-0.00013
	(!CK * !RN * SE * !SI)	-0.00003	-0.00003	-0.00003
	(!CK * !RN * SE * !SI)	0.00001	0.00002	0.00002
	(!CK * !RN * SE * !SI)	0.00029	0.00029	0.00030
	(!CK * !RN * !SE * SI)	0.00157	0.00159	0.00162
	(!CK * !RN * !SE * SI)	-0.00002	-0.00001	-0.00001
	(!CK * !RN * !SE * SI)	0.00000	0.00001	0.00002
	(!CK * !RN * !SE * SI)	0.00237	0.00240	0.00242
	(!CK * !RN * !SE * !SI)	0.00157	0.00160	0.00162
	(!CK * !RN * !SE * !SI)	-0.00002	-0.00002	-0.00001
	(!CK * !RN * !SE * !SI)	0.00000	0.00001	0.00002
	(!CK * !RN * !SE * !SI)	0.00237	0.00240	0.00242

Passive power(pJ) for D falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFRX2H7H	**(CK * RN * SE * SI)**	0.00012	0.00012	0.00012
	(CK * RN * SE * SI)	0.00003	0.00003	0.00003
	(CK * RN * SE * SI)	-0.00002	-0.00002	-0.00002
	(CK * RN * SE * SI)	-0.00033	-0.00032	-0.00031
	(CK * RN * SE * !SI)	0.00016	0.00016	0.00017
	(CK * RN * SE * !SI)	0.00003	0.00003	0.00003
	(CK * RN * SE * !SI)	-0.00002	-0.00002	-0.00001
	(CK * RN * SE * !SI)	-0.00029	-0.00028	-0.00027
	(CK * RN * !SE * SI)	0.00148	0.00150	0.00153
	(CK * RN * !SE * SI)	-0.00018	-0.00017	-0.00017
	(CK * RN * !SE * SI)	0.00013	0.00014	0.00014
	(CK * RN * !SE * SI)	0.00029	0.00031	0.00033
	(CK * RN * !SE * !SI)	0.00148	0.00150	0.00153
	(CK * RN * !SE * !SI)	-0.00018	-0.00017	-0.00016
	(CK * RN * !SE * !SI)	0.00013	0.00014	0.00014
	(CK * RN * !SE * !SI)	0.00029	0.00031	0.00033
	(CK * !RN * SE * SI)	0.00012	0.00012	0.00012
	(CK * !RN * SE * SI)	0.00003	0.00003	0.00003
	(CK * !RN * SE * SI)	-0.00002	-0.00002	-0.00002
	(CK * !RN * SE * SI)	-0.00033	-0.00032	-0.00031
	(CK * !RN * SE * !SI)	0.00016	0.00016	0.00017
	(CK * !RN * SE * !SI)	0.00003	0.00003	0.00003
	(CK * !RN * SE * !SI)	-0.00002	-0.00002	-0.00001
	(CK * !RN * SE * !SI)	-0.00029	-0.00028	-0.00027
	(CK * !RN * !SE * SI)	0.00147	0.00150	0.00153
	(CK * !RN * !SE * SI)	-0.00018	-0.00017	-0.00016
	(CK * !RN * !SE * SI)	0.00013	0.00014	0.00015
	(CK * !RN * !SE * SI)	0.00028	0.00030	0.00033
	(CK * !RN * !SE * !SI)	0.00147	0.00150	0.00152
	(CK * !RN * !SE * !SI)	-0.00018	-0.00017	-0.00016
	(CK * !RN * !SE * !SI)	0.00013	0.00014	0.00015
	(CK * !RN * !SE * !SI)	0.00028	0.00030	0.00033
	(!CK * RN * SE * SI)	0.00012	0.00012	0.00012
	(!CK * RN * SE * SI)	0.00003	0.00003	0.00003
	(!CK * RN * SE * SI)	-0.00002	-0.00002	-0.00002
	(!CK * RN * SE * SI)	-0.00033	-0.00032	-0.00031
	(!CK * RN * SE * !SI)	0.00016	0.00016	0.00017
	(!CK * RN * SE * !SI)	0.00003	0.00003	0.00003
	(!CK * RN * SE * !SI)	-0.00002	-0.00002	-0.00001
	(!CK * RN * SE * !SI)	-0.00029	-0.00028	-0.00027
	(!CK * RN * !SE * SI)	0.00335	0.00339	0.00342
	(!CK * RN * !SE * SI)	-0.00016	-0.00015	-0.00014
	(!CK * RN * !SE * SI)	0.00014	0.00014	0.00015
	(!CK * RN * !SE * SI)	0.00186	0.00190	0.00194
	(!CK * RN * !SE * !SI)	0.00335	0.00339	0.00343
	(!CK * RN * !SE * !SI)	-0.00016	-0.00015	-0.00014
	(!CK * RN * !SE * !SI)	0.00014	0.00014	0.00015
	(!CK * RN * !SE * !SI)	0.00186	0.00189	0.00192
	(!CK * !RN * SE * SI)	0.00012	0.00012	0.00012
	(!CK * !RN * SE * SI)	0.00003	0.00003	0.00003
	(!CK * !RN * SE * SI)	-0.00002	-0.00002	-0.00002
	(!CK * !RN * SE * SI)	-0.00033	-0.00032	-0.00031
	(!CK * !RN * SE * !SI)	0.00016	0.00016	0.00017
	(!CK * !RN * SE * !SI)	0.00003	0.00003	0.00003
	(!CK * !RN * SE * !SI)	-0.00002	-0.00002	-0.00001
	(!CK * !RN * SE * !SI)	-0.00029	-0.00028	-0.00027
	(!CK * !RN * !SE * SI)	0.00208	0.00211	0.00213
	(!CK * !RN * !SE * SI)	0.00001	0.00001	0.00003
	(!CK * !RN * !SE * SI)	-0.00001	-0.00001	-0.00000
	(!CK * !RN * !SE * SI)	0.00128	0.00131	0.00134
	(!CK * !RN * !SE * !SI)	0.00208	0.00211	0.00213
	(!CK * !RN * !SE * !SI)	0.00001	0.00002	0.00002
	(!CK * !RN * !SE * !SI)	-0.00001	-0.00001	-0.00000
	(!CK * !RN * !SE * !SI)	0.00128	0.00131	0.00134

Passive power(pJ) for RN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFRX2H7H	**(CK * D * SE * SI)**	-0.00068	-0.00068	-0.00067
	(CK * D * SE * SI)	-0.00003	-0.00002	-0.00002
	(CK * D * SE * SI)	0.00003	0.00005	0.00007
	(CK * D * SE * SI)	0.00047	0.00048	0.00050
	(CK * D * SE * !SI)	-0.00068	-0.00068	-0.00067
	(CK * D * SE * !SI)	-0.00004	-0.00003	-0.00002
	(CK * D * SE * !SI)	0.00003	0.00005	0.00007
	(CK * D * SE * !SI)	0.00046	0.00048	0.00050
	(CK * D * !SE * SI)	-0.00068	-0.00068	-0.00067
	(CK * D * !SE * SI)	-0.00003	-0.00002	-0.00002
	(CK * D * !SE * SI)	0.00003	0.00005	0.00007
	(CK * D * !SE * SI)	0.00047	0.00048	0.00050
	(CK * D * !SE * !SI)	-0.00068	-0.00068	-0.00067
	(CK * D * !SE * !SI)	-0.00003	-0.00002	-0.00002
	(CK * D * !SE * !SI)	0.00003	0.00005	0.00007
	(CK * D * !SE * !SI)	0.00047	0.00048	0.00050
	(CK * !D * SE * SI)	-0.00068	-0.00068	-0.00067
	(CK * !D * SE * SI)	-0.00003	-0.00002	-0.00002
	(CK * !D * SE * SI)	0.00003	0.00005	0.00007
	(CK * !D * SE * SI)	0.00047	0.00048	0.00050
	(CK * !D * SE * !SI)	-0.00068	-0.00068	-0.00067
	(CK * !D * SE * !SI)	-0.00004	-0.00003	-0.00002
	(CK * !D * SE * !SI)	0.00003	0.00005	0.00007
	(CK * !D * SE * !SI)	0.00046	0.00048	0.00050
	(CK * !D * !SE * SI)	-0.00068	-0.00068	-0.00067
	(CK * !D * !SE * SI)	-0.00002	-0.00002	-0.00002
	(CK * !D * !SE * SI)	0.00003	0.00005	0.00007
	(CK * !D * !SE * SI)	0.00047	0.00048	0.00050
	(CK * !D * !SE * !SI)	-0.00068	-0.00068	-0.00067
	(CK * !D * !SE * !SI)	-0.00002	-0.00002	-0.00002
	(CK * !D * !SE * !SI)	0.00003	0.00005	0.00007
	(CK * !D * !SE * !SI)	0.00047	0.00048	0.00050
	(!CK * D * SE * SI)	-0.00011	-0.00008	-0.00003
	(!CK * D * SE * SI)	0.00015	0.00015	0.00015
	(!CK * D * SE * SI)	-0.00007	-0.00006	-0.00005
	(!CK * D * SE * SI)	0.00166	0.00168	0.00172
	(!CK * D * SE * !SI)	-0.00067	-0.00066	-0.00066
	(!CK * D * SE * !SI)	-0.00003	-0.00002	-0.00002
	(!CK * D * SE * !SI)	0.00005	0.00006	0.00008
	(!CK * D * SE * !SI)	0.00048	0.00049	0.00050
	(!CK * D * !SE * SI)	-0.00011	-0.00008	-0.00003
	(!CK * D * !SE * SI)	0.00015	0.00015	0.00015
	(!CK * D * !SE * SI)	-0.00007	-0.00006	-0.00004
	(!CK * D * !SE * SI)	0.00166	0.00168	0.00172
	(!CK * D * !SE * !SI)	-0.00011	-0.00008	-0.00003
	(!CK * D * !SE * !SI)	0.00015	0.00015	0.00015
	(!CK * D * !SE * !SI)	-0.00007	-0.00006	-0.00004
	(!CK * D * !SE * !SI)	0.00166	0.00168	0.00172
	(!CK * !D * SE * SI)	-0.00011	-0.00008	-0.00003
	(!CK * !D * SE * SI)	0.00015	0.00015	0.00015
	(!CK * !D * SE * SI)	-0.00007	-0.00006	-0.00005
	(!CK * !D * SE * SI)	0.00166	0.00168	0.00172
	(!CK * !D * SE * !SI)	-0.00067	-0.00066	-0.00066
	(!CK * !D * SE * !SI)	-0.00003	-0.00002	-0.00002
	(!CK * !D * SE * !SI)	0.00005	0.00006	0.00008
	(!CK * !D * SE * !SI)	0.00048	0.00049	0.00050
	(!CK * !D * !SE * SI)	-0.00067	-0.00066	-0.00065
	(!CK * !D * !SE * SI)	-0.00003	-0.00002	-0.00002
	(!CK * !D * !SE * SI)	0.00005	0.00006	0.00008
	(!CK * !D * !SE * SI)	0.00047	0.00049	0.00050
	(!CK * !D * !SE * !SI)	-0.00067	-0.00066	-0.00066
	(!CK * !D * !SE * !SI)	-0.00002	-0.00002	-0.00000
	(!CK * !D * !SE * !SI)	0.00005	0.00006	0.00008
	(!CK * !D * !SE * !SI)	0.00048	0.00049	0.00050

Passive power(pJ) for RN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFRX2H7H	**(CK * D * SE * SI)**	0.00067	0.00068	0.00068
	(CK * D * SE * SI)	0.00002	0.00003	0.00003
	(CK * D * SE * SI)	-0.00005	-0.00005	-0.00003
	(CK * D * SE * SI)	-0.00048	-0.00048	-0.00047
	(CK * D * SE * !SI)	0.00067	0.00068	0.00068
	(CK * D * SE * !SI)	0.00002	0.00003	0.00004
	(CK * D * SE * !SI)	-0.00006	-0.00005	-0.00003
	(CK * D * SE * !SI)	-0.00048	-0.00048	-0.00046
	(CK * D * !SE * SI)	0.00067	0.00068	0.00068
	(CK * D * !SE * SI)	0.00002	0.00003	0.00003
	(CK * D * !SE * SI)	-0.00006	-0.00005	-0.00003
	(CK * D * !SE * SI)	-0.00048	-0.00048	-0.00047
	(CK * D * !SE * !SI)	0.00067	0.00068	0.00068
	(CK * D * !SE * !SI)	0.00002	0.00003	0.00003
	(CK * D * !SE * !SI)	-0.00006	-0.00005	-0.00003
	(CK * D * !SE * !SI)	-0.00048	-0.00048	-0.00047
	(CK * !D * SE * SI)	0.00067	0.00068	0.00068
	(CK * !D * SE * SI)	0.00002	0.00003	0.00003
	(CK * !D * SE * SI)	-0.00005	-0.00005	-0.00003
	(CK * !D * SE * SI)	-0.00048	-0.00048	-0.00047
	(CK * !D * SE * !SI)	0.00067	0.00068	0.00068
	(CK * !D * SE * !SI)	0.00002	0.00003	0.00004
	(CK * !D * SE * !SI)	-0.00006	-0.00005	-0.00003
	(CK * !D * SE * !SI)	-0.00048	-0.00048	-0.00046
	(CK * !D * !SE * SI)	0.00067	0.00068	0.00068
	(CK * !D * !SE * SI)	0.00002	0.00003	0.00003
	(CK * !D * !SE * SI)	-0.00006	-0.00005	-0.00003
	(CK * !D * !SE * SI)	-0.00048	-0.00048	-0.00047
	(CK * !D * !SE * !SI)	0.00067	0.00068	0.00068
	(CK * !D * !SE * !SI)	0.00002	0.00003	0.00003
	(CK * !D * !SE * !SI)	-0.00006	-0.00005	-0.00003
	(CK * !D * !SE * !SI)	-0.00048	-0.00048	-0.00047
	(!CK * D * SE * SI)	0.00153	0.00156	0.00161
	(!CK * D * SE * SI)	-0.00015	-0.00015	-0.00015
	(!CK * D * SE * SI)	0.00005	0.00006	0.00007
	(!CK * D * SE * SI)	-0.00024	-0.00020	-0.00014
	(!CK * D * SE * !SI)	0.00066	0.00067	0.00067
	(!CK * D * SE * !SI)	0.00002	0.00003	0.00004
	(!CK * D * SE * !SI)	-0.00005	-0.00005	-0.00005
	(!CK * D * SE * !SI)	-0.00050	-0.00049	-0.00048
	(!CK * D * !SE * SI)	0.00153	0.00156	0.00161
	(!CK * D * !SE * SI)	-0.00015	-0.00015	-0.00015
	(!CK * D * !SE * SI)	0.00004	0.00006	0.00007
	(!CK * D * !SE * SI)	-0.00024	-0.00020	-0.00013
	(!CK * D * !SE * !SI)	0.00153	0.00156	0.00161
	(!CK * D * !SE * !SI)	-0.00015	-0.00015	-0.00015
	(!CK * D * !SE * !SI)	0.00004	0.00006	0.00007
	(!CK * D * !SE * !SI)	-0.00024	-0.00020	-0.00013
	(!CK * !D * SE * SI)	0.00153	0.00156	0.00161
	(!CK * !D * SE * SI)	-0.00015	-0.00015	-0.00015
	(!CK * !D * SE * SI)	0.00005	0.00006	0.00007
	(!CK * !D * SE * SI)	-0.00024	-0.00020	-0.00014
	(!CK * !D * SE * !SI)	0.00066	0.00067	0.00067
	(!CK * !D * SE * !SI)	0.00002	0.00003	0.00003
	(!CK * !D * SE * !SI)	-0.00007	-0.00005	-0.00005
	(!CK * !D * SE * !SI)	-0.00050	-0.00049	-0.00047
	(!CK * !D * !SE * SI)	0.00066	0.00067	0.00067
	(!CK * !D * !SE * SI)	0.00002	0.00003	0.00003
	(!CK * !D * !SE * SI)	-0.00007	-0.00005	-0.00005
	(!CK * !D * !SE * SI)	-0.00050	-0.00049	-0.00047
	(!CK * !D * !SE * !SI)	0.00066	0.00067	0.00067
	(!CK * !D * !SE * !SI)	0.00002	0.00003	0.00003
	(!CK * !D * !SE * !SI)	-0.00007	-0.00005	-0.00005
	(!CK * !D * !SE * !SI)	-0.00050	-0.00049	-0.00047

Passive power(pJ) for SE rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFRX2H7H	**(CK * D * RN * SI)**	-0.00021	-0.00018	-0.00013
	(CK * D * RN * SI)	0.00003	0.00004	0.00004
	(CK * D * RN * SI)	-0.00003	-0.00003	-0.00003
	(CK * D * RN * SI)	0.00128	0.00131	0.00136
	(CK * D * RN * !SI)	0.00138	0.00144	0.00151
	(CK * D * RN * !SI)	-0.00011	-0.00011	-0.00009
	(CK * D * RN * !SI)	0.00008	0.00009	0.00010
	(CK * D * RN * !SI)	0.00229	0.00234	0.00241
	(CK * D * !RN * SI)	-0.00021	-0.00018	-0.00013
	(CK * D * !RN * SI)	0.00004	0.00004	0.00005
	(CK * D * !RN * SI)	-0.00003	-0.00003	-0.00003
	(CK * D * !RN * SI)	0.00128	0.00131	0.00135
	(CK * D * !RN * !SI)	0.00138	0.00143	0.00150
	(CK * D * !RN * !SI)	-0.00012	-0.00011	-0.00009
	(CK * D * !RN * !SI)	0.00008	0.00009	0.00010
	(CK * D * !RN * !SI)	0.00228	0.00234	0.00241
	(CK * !D * RN * SI)	-0.00016	-0.00010	-0.00003
	(CK * !D * RN * SI)	0.00018	0.00018	0.00020
	(CK * !D * RN * SI)	-0.00015	-0.00015	-0.00014
	(CK * !D * RN * SI)	0.00190	0.00196	0.00204
	(CK * !D * RN * !SI)	-0.00012	-0.00009	-0.00004
	(CK * !D * RN * !SI)	0.00002	0.00003	0.00004
	(CK * !D * RN * !SI)	-0.00003	-0.00003	-0.00003
	(CK * !D * RN * !SI)	0.00135	0.00138	0.00142
	(CK * !D * !RN * SI)	-0.00016	-0.00010	-0.00002
	(CK * !D * !RN * SI)	0.00017	0.00018	0.00019
	(CK * !D * !RN * SI)	-0.00016	-0.00015	-0.00015
	(CK * !D * !RN * SI)	0.00190	0.00195	0.00204
	(CK * !D * !RN * !SI)	-0.00012	-0.00009	-0.00004
	(CK * !D * !RN * !SI)	0.00002	0.00003	0.00004
	(CK * !D * !RN * !SI)	-0.00004	-0.00003	-0.00003
	(CK * !D * !RN * !SI)	0.00135	0.00138	0.00142
	(!CK * D * RN * SI)	-0.00012	-0.00009	-0.00004
	(!CK * D * RN * SI)	0.00004	0.00004	0.00004
	(!CK * D * RN * SI)	-0.00003	-0.00003	-0.00002
	(!CK * D * RN * SI)	0.00136	0.00139	0.00142
	(!CK * D * RN * !SI)	0.00335	0.00342	0.00349
	(!CK * D * RN * !SI)	-0.00009	-0.00009	-0.00008
	(!CK * D * RN * !SI)	0.00006	0.00008	0.00009
	(!CK * D * RN * !SI)	0.00396	0.00403	0.00412
	(!CK * D * !RN * SI)	-0.00012	-0.00009	-0.00005
	(!CK * D * !RN * SI)	0.00004	0.00004	0.00004
	(!CK * D * !RN * SI)	-0.00003	-0.00003	-0.00002
	(!CK * D * !RN * SI)	0.00136	0.00139	0.00145
	(!CK * D * !RN * !SI)	0.00208	0.00214	0.00221
	(!CK * D * !RN * !SI)	0.00008	0.00008	0.00009
	(!CK * D * !RN * !SI)	-0.00007	-0.00007	-0.00006
	(!CK * D * !RN * !SI)	0.00338	0.00344	0.00353
	(!CK * !D * RN * SI)	0.00168	0.00173	0.00181
	(!CK * !D * RN * SI)	0.00015	0.00017	0.00019
	(!CK * !D * RN * SI)	-0.00016	-0.00015	-0.00015
	(!CK * !D * RN * SI)	0.00404	0.00410	0.00420
	(!CK * !D * RN * !SI)	-0.00004	-0.00001	0.00004
	(!CK * !D * RN * !SI)	0.00003	0.00004	0.00005
	(!CK * !D * RN * !SI)	-0.00004	-0.00003	-0.00003
	(!CK * !D * RN * !SI)	0.00143	0.00146	0.00150
	(!CK * !D * !RN * SI)	0.00110	0.00115	0.00122
	(!CK * !D * !RN * SI)	-0.00001	-0.00000	0.00002
	(!CK * !D * !RN * SI)	0.00000	0.00000	0.00001
	(!CK * !D * !RN * SI)	0.00277	0.00283	0.00291
	(!CK * !D * !RN * !SI)	-0.00004	-0.00001	0.00004
	(!CK * !D * !RN * !SI)	0.00002	0.00003	0.00004
	(!CK * !D * !RN * !SI)	-0.00004	-0.00003	-0.00003
	(!CK * !D * !RN * !SI)	0.00143	0.00146	0.00151

Passive power(pJ) for SE falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFRX2H7H	**(CK * D * RN * SI)**	0.00136	0.00139	0.00145
	(CK * D * RN * SI)	-0.00004	-0.00003	-0.00003
	(CK * D * RN * SI)	0.00003	0.00003	0.00004
	(CK * D * RN * SI)	-0.00012	-0.00010	-0.00005
	(CK * D * RN * !SI)	0.00194	0.00196	0.00199
	(CK * D * RN * !SI)	0.00010	0.00011	0.00012
	(CK * D * RN * !SI)	-0.00010	-0.00009	-0.00008
	(CK * D * RN * !SI)	0.00103	0.00106	0.00111
	(CK * D * !RN * SI)	0.00135	0.00139	0.00144
	(CK * D * !RN * SI)	-0.00005	-0.00004	-0.00003
	(CK * D * !RN * SI)	0.00003	0.00003	0.00004
	(CK * D * !RN * SI)	-0.00012	-0.00010	-0.00006
	(CK * D * !RN * !SI)	0.00194	0.00197	0.00202
	(CK * D * !RN * !SI)	0.00010	0.00011	0.00012
	(CK * D * !RN * !SI)	-0.00009	-0.00008	-0.00007
	(CK * D * !RN * !SI)	0.00103	0.00106	0.00109
	(CK * !D * RN * SI)	0.00223	0.00229	0.00237
	(CK * !D * RN * SI)	-0.00020	-0.00018	-0.00018
	(CK * !D * RN * SI)	0.00014	0.00015	0.00016
	(CK * !D * RN * SI)	0.00018	0.00023	0.00031
	(CK * !D * RN * !SI)	0.00126	0.00129	0.00133
	(CK * !D * RN * !SI)	-0.00004	-0.00003	-0.00002
	(CK * !D * RN * !SI)	0.00004	0.00004	0.00004
	(CK * !D * RN * !SI)	-0.00021	-0.00018	-0.00014
	(CK * !D * !RN * SI)	0.00223	0.00228	0.00234
	(CK * !D * !RN * SI)	-0.00018	-0.00018	-0.00017
	(CK * !D * !RN * SI)	0.00015	0.00015	0.00016
	(CK * !D * !RN * SI)	0.00017	0.00023	0.00031
	(CK * !D * !RN * !SI)	0.00126	0.00129	0.00131
	(CK * !D * !RN * !SI)	-0.00004	-0.00003	-0.00001
	(CK * !D * !RN * !SI)	0.00004	0.00004	0.00004
	(CK * !D * !RN * !SI)	-0.00021	-0.00018	-0.00014
	(!CK * D * RN * SI)	0.00127	0.00130	0.00134
	(!CK * D * RN * SI)	-0.00004	-0.00003	-0.00003
	(!CK * D * RN * SI)	0.00002	0.00003	0.00004
	(!CK * D * RN * SI)	-0.00021	-0.00018	-0.00013
	(!CK * D * RN * !SI)	0.00361	0.00364	0.00368
	(!CK * D * RN * !SI)	0.00008	0.00009	0.00009
	(!CK * D * RN * !SI)	-0.00009	-0.00008	-0.00006
	(!CK * D * RN * !SI)	0.00301	0.00304	0.00309
	(!CK * D * !RN * SI)	0.00127	0.00130	0.00136
	(!CK * D * !RN * SI)	-0.00004	-0.00004	-0.00003
	(!CK * D * !RN * SI)	0.00002	0.00003	0.00004
	(!CK * D * !RN * SI)	-0.00021	-0.00018	-0.00013
	(!CK * D * !RN * !SI)	0.00303	0.00306	0.00313
	(!CK * D * !RN * !SI)	-0.00009	-0.00008	-0.00008
	(!CK * D * !RN * !SI)	0.00006	0.00007	0.00007
	(!CK * D * !RN * !SI)	0.00174	0.00177	0.00181
	(!CK * !D * RN * SI)	0.00404	0.00409	0.00415
	(!CK * !D * RN * SI)	-0.00017	-0.00016	-0.00015
	(!CK * !D * RN * SI)	0.00015	0.00015	0.00016
	(!CK * !D * RN * SI)	0.00169	0.00174	0.00183
	(!CK * !D * RN * !SI)	0.00118	0.00121	0.00123
	(!CK * !D * RN * !SI)	-0.00004	-0.00003	-0.00002
	(!CK * !D * RN * !SI)	0.00004	0.00004	0.00004
	(!CK * !D * RN * !SI)	-0.00030	-0.00027	-0.00022
	(!CK * !D * !RN * SI)	0.00276	0.00281	0.00290
	(!CK * !D * !RN * SI)	0.00000	0.00001	0.00001
	(!CK * !D * !RN * SI)	-0.00001	-0.00000	0.00000
	(!CK * !D * !RN * SI)	0.00110	0.00115	0.00123
	(!CK * !D * !RN * !SI)	0.00118	0.00121	0.00124
	(!CK * !D * !RN * !SI)	-0.00004	-0.00003	-0.00001
	(!CK * !D * !RN * !SI)	0.00004	0.00004	0.00004
	(!CK * !D * !RN * !SI)	-0.00030	-0.00027	-0.00022

Passive power(pJ) for SI rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFRX2H7H	**(CK * D * RN * SE)**	0.00009	0.00010	0.00011
	(CK * D * RN * SE)	0.00016	0.00016	0.00017
	(CK * D * RN * SE)	-0.00013	-0.00013	-0.00013
	(CK * D * RN * SE)	0.00122	0.00123	0.00125
	(CK * D * RN * !SE)	-0.00017	-0.00016	-0.00015
	(CK * D * RN * !SE)	-0.00003	-0.00003	-0.00002
	(CK * D * RN * !SE)	0.00002	0.00002	0.00002
	(CK * D * RN * !SE)	0.00023	0.00023	0.00023
	(CK * D * !RN * SE)	0.00009	0.00010	0.00010
	(CK * D * !RN * SE)	0.00016	0.00016	0.00017
	(CK * D * !RN * SE)	-0.00014	-0.00013	-0.00012
	(CK * D * !RN * SE)	0.00122	0.00123	0.00126
	(CK * D * !RN * !SE)	-0.00017	-0.00016	-0.00015
	(CK * D * !RN * !SE)	-0.00003	-0.00003	-0.00002
	(CK * D * !RN * !SE)	0.00002	0.00002	0.00002
	(CK * D * !RN * !SE)	0.00022	0.00023	0.00023
	(CK * !D * RN * SE)	0.00009	0.00010	0.00012
	(CK * !D * RN * SE)	0.00015	0.00016	0.00016
	(CK * !D * RN * SE)	-0.00014	-0.00013	-0.00013
	(CK * !D * RN * SE)	0.00122	0.00124	0.00125
	(CK * !D * RN * !SE)	-0.00017	-0.00017	-0.00016
	(CK * !D * RN * !SE)	-0.00003	-0.00003	-0.00002
	(CK * !D * RN * !SE)	0.00001	0.00002	0.00002
	(CK * !D * RN * !SE)	0.00023	0.00023	0.00023
	(CK * !D * !RN * SE)	0.00009	0.00010	0.00011
	(CK * !D * !RN * SE)	0.00016	0.00016	0.00016
	(CK * !D * !RN * SE)	-0.00014	-0.00013	-0.00013
	(CK * !D * !RN * SE)	0.00122	0.00124	0.00126
	(CK * !D * !RN * !SE)	-0.00017	-0.00017	-0.00016
	(CK * !D * !RN * !SE)	-0.00003	-0.00003	-0.00002
	(CK * !D * !RN * !SE)	0.00001	0.00002	0.00002
	(CK * !D * !RN * !SE)	0.00023	0.00023	0.00023
	(!CK * D * RN * SE)	0.00183	0.00185	0.00187
	(!CK * D * RN * SE)	0.00014	0.00014	0.00015
	(!CK * D * RN * SE)	-0.00014	-0.00013	-0.00013
	(!CK * D * RN * SE)	0.00327	0.00330	0.00331
	(!CK * D * RN * !SE)	-0.00017	-0.00016	-0.00015
	(!CK * D * RN * !SE)	-0.00002	-0.00002	-0.00002
	(!CK * D * RN * !SE)	0.00002	0.00002	0.00002
	(!CK * D * RN * !SE)	0.00022	0.00023	0.00023
	(!CK * D * !RN * SE)	0.00126	0.00128	0.00130
	(!CK * D * !RN * SE)	-0.00003	-0.00002	-0.00002
	(!CK * D * !RN * SE)	0.00001	0.00002	0.00002
	(!CK * D * !RN * SE)	0.00200	0.00202	0.00204
	(!CK * D * !RN * !SE)	-0.00017	-0.00016	-0.00015
	(!CK * D * !RN * !SE)	-0.00002	-0.00002	-0.00002
	(!CK * D * !RN * !SE)	0.00002	0.00002	0.00002
	(!CK * D * !RN * !SE)	0.00022	0.00023	0.00023
	(!CK * !D * RN * SE)	0.00184	0.00186	0.00188
	(!CK * !D * RN * SE)	0.00014	0.00014	0.00016
	(!CK * !D * RN * SE)	-0.00014	-0.00014	-0.00013
	(!CK * !D * RN * SE)	0.00327	0.00330	0.00332
	(!CK * !D * RN * !SE)	-0.00017	-0.00017	-0.00016
	(!CK * !D * RN * !SE)	-0.00003	-0.00003	-0.00002
	(!CK * !D * RN * !SE)	0.00001	0.00002	0.00002
	(!CK * !D * RN * !SE)	0.00023	0.00023	0.00023
	(!CK * !D * !RN * SE)	0.00126	0.00128	0.00129
	(!CK * !D * !RN * SE)	-0.00003	-0.00002	-0.00002
	(!CK * !D * !RN * SE)	0.00001	0.00002	0.00002
	(!CK * !D * !RN * SE)	0.00201	0.00202	0.00204
	(!CK * !D * !RN * !SE)	-0.00017	-0.00017	-0.00016
	(!CK * !D * !RN * !SE)	-0.00003	-0.00003	-0.00002
	(!CK * !D * !RN * !SE)	0.00001	0.00002	0.00002
	(!CK * !D * !RN * !SE)	0.00023	0.00023	0.00023

Passive power(pJ) for SI falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFRX2H7H	**(CK * D * RN * SE)**	0.00175	0.00177	0.00178
	(CK * D * RN * SE)	-0.00016	-0.00016	-0.00016
	(CK * D * RN * SE)	0.00013	0.00013	0.00014
	(CK * D * RN * SE)	0.00063	0.00064	0.00065
	(CK * D * RN * !SE)	0.00017	0.00017	0.00017
	(CK * D * RN * !SE)	0.00002	0.00003	0.00003
	(CK * D * RN * !SE)	-0.00002	-0.00002	-0.00002
	(CK * D * RN * !SE)	-0.00023	-0.00022	-0.00020
	(CK * D * !RN * SE)	0.00175	0.00177	0.00179
	(CK * D * !RN * SE)	-0.00017	-0.00016	-0.00016
	(CK * D * !RN * SE)	0.00012	0.00013	0.00014
	(CK * D * !RN * SE)	0.00063	0.00064	0.00066
	(CK * D * !RN * !SE)	0.00016	0.00017	0.00017
	(CK * D * !RN * !SE)	0.00002	0.00003	0.00003
	(CK * D * !RN * !SE)	-0.00002	-0.00002	-0.00002
	(CK * D * !RN * !SE)	-0.00023	-0.00022	-0.00020
	(CK * !D * RN * SE)	0.00175	0.00177	0.00178
	(CK * !D * RN * SE)	-0.00016	-0.00016	-0.00015
	(CK * !D * RN * SE)	0.00013	0.00013	0.00014
	(CK * !D * RN * SE)	0.00063	0.00064	0.00065
	(CK * !D * RN * !SE)	0.00017	0.00017	0.00018
	(CK * !D * RN * !SE)	0.00002	0.00003	0.00003
	(CK * !D * RN * !SE)	-0.00002	-0.00002	-0.00001
	(CK * !D * RN * !SE)	-0.00023	-0.00022	-0.00020
	(CK * !D * !RN * SE)	0.00175	0.00177	0.00179
	(CK * !D * !RN * SE)	-0.00016	-0.00016	-0.00016
	(CK * !D * !RN * SE)	0.00013	0.00013	0.00014
	(CK * !D * !RN * SE)	0.00062	0.00064	0.00066
	(CK * !D * !RN * !SE)	0.00017	0.00017	0.00018
	(CK * !D * !RN * !SE)	0.00002	0.00003	0.00003
	(CK * !D * !RN * !SE)	-0.00002	-0.00002	-0.00001
	(CK * !D * !RN * !SE)	-0.00023	-0.00022	-0.00020
	(!CK * D * RN * SE)	0.00362	0.00366	0.00369
	(!CK * D * RN * SE)	-0.00015	-0.00014	-0.00014
	(!CK * D * RN * SE)	0.00013	0.00013	0.00014
	(!CK * D * RN * SE)	0.00220	0.00223	0.00225
	(!CK * D * RN * !SE)	0.00017	0.00017	0.00017
	(!CK * D * RN * !SE)	0.00002	0.00002	0.00002
	(!CK * D * RN * !SE)	-0.00002	-0.00002	-0.00002
	(!CK * D * RN * !SE)	-0.00023	-0.00022	-0.00020
	(!CK * D * !RN * SE)	0.00236	0.00238	0.00240
	(!CK * D * !RN * SE)	0.00002	0.00002	0.00003
	(!CK * D * !RN * SE)	-0.00002	-0.00002	-0.00001
	(!CK * D * !RN * SE)	0.00162	0.00164	0.00166
	(!CK * D * !RN * !SE)	0.00017	0.00017	0.00017
	(!CK * D * !RN * !SE)	0.00002	0.00002	0.00002
	(!CK * D * !RN * !SE)	-0.00002	-0.00002	-0.00002
	(!CK * D * !RN * !SE)	-0.00022	-0.00022	-0.00020
	(!CK * !D * RN * SE)	0.00362	0.00366	0.00369
	(!CK * !D * RN * SE)	-0.00016	-0.00014	-0.00014
	(!CK * !D * RN * SE)	0.00013	0.00014	0.00014
	(!CK * !D * RN * SE)	0.00220	0.00223	0.00225
	(!CK * !D * RN * !SE)	0.00017	0.00017	0.00018
	(!CK * !D * RN * !SE)	0.00002	0.00003	0.00003
	(!CK * !D * RN * !SE)	-0.00002	-0.00002	-0.00001
	(!CK * !D * RN * !SE)	-0.00023	-0.00022	-0.00020
	(!CK * !D * !RN * SE)	0.00235	0.00238	0.00239
	(!CK * !D * !RN * SE)	0.00002	0.00002	0.00004
	(!CK * !D * !RN * SE)	-0.00002	-0.00002	-0.00001
	(!CK * !D * !RN * SE)	0.00162	0.00164	0.00166
	(!CK * !D * !RN * !SE)	0.00017	0.00017	0.00018
	(!CK * !D * !RN * !SE)	0.00002	0.00003	0.00003
	(!CK * !D * !RN * !SE)	-0.00002	-0.00002	-0.00001
	(!CK * !D * !RN * !SE)	-0.00023	-0.00022	-0.00020

SDFFRX3H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Negative Edge Trigger Scan D Flip-Flop with Async Clear
Q = !RN ?0 : falling (CKN) ?(SE&SI|!SE&D) : pre_Q
QN = !Q

Truth Table

INPUT					OUTPUT	
CK	D	RN	SE	SI	Q	QN
R	0	1	0	x	0	1
R	x	1	1	0	0	1
R	x	1	1	1	1	0
R	1	1	0	x	1	0
x	x	0	x	x	0	1
x	x	1	x	x	IQ	IQN

Footprint

Cell Name	Area
SDFFRX3H7H	11.76000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)	
	CK	D	RN	SE	SI	Q	QN
SDFFRX3H7H	0.00120	0.00086	0.00240	0.00226	0.00083	0.08758	0.08917

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
SDFFRX3H7H	0.00000	0.12424	0.14238

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFRX3H7H	CK->Q (RR)	-	0.17391	0.37264	0.82149

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFRX3H7H	CK->Q (RF)	-	0.13318	0.29628	0.65141
	RN->Q (FF)	(CK * D * SE * SI)	0.07307	0.22456	0.58168
	RN->Q (FF)	(CK * D * SE * !SI)	0.07307	0.22456	0.58171
	RN->Q (FF)	(CK * D * !SE * SI)	0.07307	0.22456	0.58164
	RN->Q (FF)	(CK * D * !SE * !SI)	0.07307	0.22456	0.58165
	RN->Q (FF)	(CK * !D * SE * SI)	0.07307	0.22456	0.58168
	RN->Q (FF)	(CK * !D * SE * !SI)	0.07307	0.22456	0.58171
	RN->Q (FF)	(CK * !D * !SE * SI)	0.07307	0.22456	0.58167
	RN->Q (FF)	(CK * !D * !SE * !SI)	0.07307	0.22456	0.58167
	RN->Q (FF)	(!CK * D * SE * SI)	0.10165	0.27179	0.67027
	RN->Q (FF)	(!CK * D * SE * !SI)	0.10153	0.27141	0.66958
	RN->Q (FF)	(!CK * D * !SE * SI)	0.10166	0.27178	0.67021
	RN->Q (FF)	(!CK * D * !SE * !SI)	0.10166	0.27179	0.67021
	RN->Q (FF)	(!CK * !D * SE * SI)	0.10167	0.27179	0.67022
	RN->Q (FF)	(!CK * !D * SE * !SI)	0.10153	0.27141	0.66958
	RN->Q (FF)	(!CK * !D * !SE * SI)	0.10153	0.27141	0.66958
	RN->Q (FF)	(!CK * !D * !SE * !SI)	0.10153	0.27141	0.66958

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFRX3H7H	CK->QN (RR)	-	0.21150	0.38587	0.82425
	RN->QN (FR)	(CK * D * SE * SI)	0.12993	0.31169	0.76111
	RN->QN (FR)	(CK * D * SE * !SI)	0.12993	0.31169	0.76110
	RN->QN (FR)	(CK * D * !SE * SI)	0.12993	0.31169	0.76111
	RN->QN (FR)	(CK * D * !SE * !SI)	0.12993	0.31169	0.76111
	RN->QN (FR)	(CK * !D * SE * SI)	0.12993	0.31169	0.76111
	RN->QN (FR)	(CK * !D * SE * !SI)	0.12993	0.31169	0.76110
	RN->QN (FR)	(CK * !D * !SE * SI)	0.12993	0.31169	0.76110
	RN->QN (FR)	(CK * !D * !SE * !SI)	0.12993	0.31169	0.76110
	RN->QN (FR)	(!CK * D * SE * SI)	0.17717	0.36394	0.84445
	RN->QN (FR)	(!CK * D * SE * !SI)	0.17710	0.36359	0.84380
	RN->QN (FR)	(!CK * D * !SE * SI)	0.17719	0.36394	0.84445
	RN->QN (FR)	(!CK * D * !SE * !SI)	0.17719	0.36394	0.84445
	RN->QN (FR)	(!CK * !D * SE * SI)	0.17719	0.36394	0.84445
	RN->QN (FR)	(!CK * !D * SE * !SI)	0.17710	0.36359	0.84380
	RN->QN (FR)	(!CK * !D * !SE * SI)	0.17710	0.36360	0.84380
	RN->QN (FR)	(!CK * !D * !SE * !SI)	0.17710	0.36360	0.84380

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFRX3H7H	CK->QN (RF)	-	0.24844	0.38937	0.72769

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
SDFFRX3H7H	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRX3H7H	**hold**	**CK (R)**	-0.20592	-0.02967	0.13702
	setup	**CK (R)**	-0.08599	0.10346	0.30070

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRX3H7H	**hold**	**CK (R)**	-0.30105	-0.12527	-0.00383
	setup	**CK (R)**	0.03432	0.16595	0.35113

Min Pulse Width (ns) for RN:

Cell Name	High	Low
SDFFRX3H7H	-	0.9851

Constraints(ns) for RN rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRX3H7H	**hold**	**CK (R)**	-0.00128	0.10504	0.27924
	setup	**CK (R)**	-0.23878	-0.01147	0.32625

Constraints(ns) for SE rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRX3H7H	hold	CK (R)	-0.15404	-0.01177	0.13769
	setup	CK (R)	0.07668	0.18550	0.31525

Constraints(ns) for SE falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRX3H7H	hold	CK (R)	-0.21263	-0.04790	0.11837
	setup	CK (R)	0.00453	0.13957	0.29903

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRX3H7H	hold	CK (R)	-0.21572	-0.03374	0.13284
	setup	CK (R)	-0.08581	0.10804	0.30856

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRX3H7H	hold	CK (R)	-0.32088	-0.14218	-0.01886
	setup	CK (R)	0.04965	0.18273	0.37454

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFRX3H7H	CK	-	0.00301	0.00311	0.00321
	CK	-	0.00000	0.00003	0.00005
	CK	-	-0.00003	-0.00001	0.00000
	CK	-	0.00355	0.00366	0.00377

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

SDFFRX3H7H	**CK**	**-**	0.00296	0.00310	0.00322
	CK	**-**	-0.00005	-0.00003	-0.00000
	CK	**-**	0.00000	0.00001	0.00003
	CK	**-**	0.00325	0.00340	0.00352
	RN	**(CK * D * SE * SI)**	0.00319	0.00336	0.00350
	RN	**(CK * D * SE * SI)**	-0.00005	-0.00005	-0.00004
	RN	**(CK * D * SE * SI)**	-0.00006	-0.00003	0.00000
	RN	**(CK * D * SE * SI)**	0.00234	0.00251	0.00266
	RN	**(CK * D * SE * !SI)**	0.00319	0.00336	0.00350
	RN	**(CK * D * SE * !SI)**	-0.00005	-0.00005	-0.00003
	RN	**(CK * D * SE * !SI)**	-0.00006	-0.00003	-0.00000
	RN	**(CK * D * SE * !SI)**	0.00234	0.00251	0.00266
	RN	**(CK * D * !SE * SI)**	0.00320	0.00336	0.00350
	RN	**(CK * D * !SE * SI)**	-0.00005	-0.00005	-0.00004
	RN	**(CK * D * !SE * SI)**	-0.00006	-0.00003	0.00000
	RN	**(CK * D * !SE * SI)**	0.00234	0.00251	0.00266
	RN	**(CK * D * !SE * !SI)**	0.00320	0.00336	0.00350
	RN	**(CK * D * !SE * !SI)**	-0.00005	-0.00005	-0.00004
	RN	**(CK * D * !SE * !SI)**	-0.00006	-0.00003	0.00000
	RN	**(CK * D * !SE * !SI)**	0.00234	0.00251	0.00266
	RN	**(CK * !D * SE * SI)**	0.00319	0.00336	0.00350
	RN	**(CK * !D * SE * SI)**	-0.00005	-0.00005	-0.00004
	RN	**(CK * !D * SE * SI)**	-0.00006	-0.00003	0.00000
	RN	**(CK * !D * SE * SI)**	0.00234	0.00251	0.00266
	RN	**(CK * !D * SE * !SI)**	0.00319	0.00336	0.00350
	RN	**(CK * !D * SE * !SI)**	-0.00005	-0.00005	-0.00003
	RN	**(CK * !D * SE * !SI)**	-0.00006	-0.00003	-0.00000
	RN	**(CK * !D * SE * !SI)**	0.00234	0.00251	0.00266
	RN	**(CK * !D * !SE * SI)**	0.00319	0.00336	0.00350
	RN	**(CK * !D * !SE * SI)**	-0.00005	-0.00005	-0.00004
	RN	**(CK * !D * !SE * SI)**	-0.00006	-0.00003	0.00000
	RN	**(CK * !D * !SE * SI)**	0.00234	0.00251	0.00266
	RN	**(CK * !D * !SE * !SI)**	0.00319	0.00336	0.00350
	RN	**(CK * !D * !SE * !SI)**	-0.00005	-0.00005	-0.00004
	RN	**(CK * !D * !SE * !SI)**	-0.00006	-0.00003	0.00000
	RN	**(CK * !D * !SE * !SI)**	0.00234	0.00251	0.00266
	RN	**(!CK * D * SE * SI)**	0.00296	0.00310	0.00324
	RN	**(!CK * D * SE * SI)**	-0.00016	-0.00013	-0.00013
	RN	**(!CK * D * SE * SI)**	0.00004	0.00007	0.00011
	RN	**(!CK * D * SE * SI)**	0.00190	0.00203	0.00217
	RN	**(!CK * D * SE * !SI)**	0.00250	0.00262	0.00273
	RN	**(!CK * D * SE * !SI)**	-0.00005	-0.00004	-0.00002
	RN	**(!CK * D * SE * !SI)**	-0.00000	0.00002	0.00005
	RN	**(!CK * D * SE * !SI)**	0.00175	0.00187	0.00199
	RN	**(!CK * D * !SE * SI)**	0.00296	0.00310	0.00323
	RN	**(!CK * D * !SE * SI)**	-0.00014	-0.00013	-0.00012
	RN	**(!CK * D * !SE * SI)**	0.00006	0.00007	0.00011
	RN	**(!CK * D * !SE * SI)**	0.00190	0.00203	0.00217
	RN	**(!CK * D * !SE * !SI)**	0.00296	0.00310	0.00323
	RN	**(!CK * D * !SE * !SI)**	-0.00014	-0.00013	-0.00012
	RN	**(!CK * D * !SE * !SI)**	0.00006	0.00007	0.00011
	RN	**(!CK * D * !SE * !SI)**	0.00190	0.00203	0.00217
	RN	**(!CK * !D * SE * SI)**	0.00296	0.00310	0.00324
	RN	**(!CK * !D * SE * SI)**	-0.00014	-0.00013	-0.00012
	RN	**(!CK * !D * SE * SI)**	0.00005	0.00007	0.00011
	RN	**(!CK * !D * SE * SI)**	0.00190	0.00203	0.00217
	RN	**(!CK * !D * SE * !SI)**	0.00250	0.00262	0.00273
	RN	**(!CK * !D * SE * !SI)**	-0.00005	-0.00004	-0.00002
	RN	**(!CK * !D * SE * !SI)**	-0.00000	0.00002	0.00005
	RN	**(!CK * !D * SE * !SI)**	0.00175	0.00187	0.00199
	RN	**(!CK * !D * !SE * SI)**	0.00250	0.00262	0.00273
	RN	**(!CK * !D * !SE * SI)**	-0.00005	-0.00004	-0.00002
	RN	**(!CK * !D * !SE * SI)**	-0.00000	0.00002	0.00005
	RN	**(!CK * !D * !SE * SI)**	0.00175	0.00187	0.00199
	RN	**(!CK * !D * !SE * !SI)**	0.00250	0.00262	0.00273
	RN	**(!CK * !D * !SE * !SI)**	-0.00005	-0.00004	-0.00002
	RN	**(!CK * !D * !SE * !SI)**	-0.00000	0.00002	0.00005
	RN	**(!CK * !D * !SE * !SI)**	0.00175	0.00187	0.00199

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

SDFFRX3H7H	CK	-	0.00296	0.00310	0.00322
	CK	-	-0.00005	-0.00003	-0.00002
	CK	-	0.00000	0.00001	0.00009
	CK	-	0.00326	0.00340	0.00352
	RN	(CK * D * SE * SI)	0.00320	0.00336	0.00350
	RN	(CK * D * SE * SI)	-0.00006	-0.00005	-0.00004
	RN	(CK * D * SE * SI)	-0.00006	-0.00003	0.00001
	RN	(CK * D * SE * SI)	0.00234	0.00251	0.00266
	RN	(CK * D * SE * !SI)	0.00320	0.00336	0.00350
	RN	(CK * D * SE * !SI)	-0.00006	-0.00005	-0.00004
	RN	(CK * D * SE * !SI)	-0.00006	-0.00003	0.00001
	RN	(CK * D * SE * !SI)	0.00234	0.00251	0.00266
	RN	(CK * D * !SE * SI)	0.00320	0.00336	0.00350
	RN	(CK * D * !SE * SI)	-0.00005	-0.00005	-0.00004
	RN	(CK * D * !SE * SI)	-0.00005	-0.00003	-0.00001
	RN	(CK * D * !SE * SI)	0.00234	0.00251	0.00266
	RN	(CK * D * !SE * !SI)	0.00320	0.00336	0.00350
	RN	(CK * D * !SE * !SI)	-0.00005	-0.00005	-0.00003
	RN	(CK * D * !SE * !SI)	-0.00008	-0.00003	-0.00001
	RN	(CK * D * !SE * !SI)	0.00234	0.00251	0.00266
	RN	(CK * !D * SE * SI)	0.00320	0.00336	0.00350
	RN	(CK * !D * SE * SI)	-0.00006	-0.00005	-0.00004
	RN	(CK * !D * SE * SI)	-0.00006	-0.00003	0.00001
	RN	(CK * !D * SE * SI)	0.00234	0.00251	0.00266
	RN	(CK * !D * SE * !SI)	0.00320	0.00336	0.00350
	RN	(CK * !D * SE * !SI)	-0.00006	-0.00005	-0.00004
	RN	(CK * !D * SE * !SI)	-0.00006	-0.00003	0.00001
	RN	(CK * !D * SE * !SI)	0.00234	0.00251	0.00266
	RN	(CK * !D * !SE * SI)	0.00320	0.00336	0.00350
	RN	(CK * !D * !SE * SI)	-0.00009	-0.00005	-0.00004
	RN	(CK * !D * !SE * SI)	-0.00006	-0.00003	-0.00001
	RN	(CK * !D * !SE * SI)	0.00234	0.00251	0.00266
	RN	(CK * !D * !SE * !SI)	0.00320	0.00336	0.00350
	RN	(CK * !D * !SE * !SI)	-0.00005	-0.00005	-0.00004
	RN	(CK * !D * !SE * !SI)	-0.00006	-0.00003	-0.00001
	RN	(CK * !D * !SE * !SI)	0.00234	0.00251	0.00266
	RN	(!CK * D * SE * SI)	0.00296	0.00310	0.00324
	RN	(!CK * D * SE * SI)	-0.00015	-0.00013	-0.00011
	RN	(!CK * D * SE * SI)	0.00005	0.00007	0.00010
	RN	(!CK * D * SE * SI)	0.00190	0.00203	0.00217
	RN	(!CK * D * SE * !SI)	0.00250	0.00262	0.00274
	RN	(!CK * D * SE * !SI)	-0.00005	-0.00004	-0.00003
	RN	(!CK * D * SE * !SI)	-0.00000	0.00001	0.00001
	RN	(!CK * D * SE * !SI)	0.00175	0.00187	0.00199
	RN	(!CK * D * !SE * SI)	0.00296	0.00310	0.00324
	RN	(!CK * D * !SE * SI)	-0.00015	-0.00013	-0.00011
	RN	(!CK * D * !SE * SI)	0.00005	0.00007	0.00010
	RN	(!CK * D * !SE * SI)	0.00190	0.00203	0.00217
	RN	(!CK * D * !SE * !SI)	0.00296	0.00310	0.00324
	RN	(!CK * D * !SE * !SI)	-0.00015	-0.00013	-0.00011
	RN	(!CK * D * !SE * !SI)	0.00005	0.00007	0.00010
	RN	(!CK * D * !SE * !SI)	0.00190	0.00203	0.00217
	RN	(!CK * !D * SE * SI)	0.00296	0.00310	0.00324
	RN	(!CK * !D * SE * SI)	-0.00015	-0.00013	-0.00011
	RN	(!CK * !D * SE * SI)	0.00005	0.00007	0.00010
	RN	(!CK * !D * SE * SI)	0.00190	0.00203	0.00217
	RN	(!CK * !D * SE * !SI)	0.00250	0.00262	0.00274
	RN	(!CK * !D * SE * !SI)	-0.00005	-0.00004	-0.00003
	RN	(!CK * !D * SE * !SI)	-0.00000	0.00001	0.00001
	RN	(!CK * !D * SE * !SI)	0.00175	0.00187	0.00199
	RN	(!CK * !D * !SE * SI)	0.00250	0.00262	0.00274
	RN	(!CK * !D * !SE * SI)	-0.00004	-0.00004	-0.00003
	RN	(!CK * !D * !SE * SI)	-0.00000	0.00001	0.00001
	RN	(!CK * !D * !SE * SI)	0.00175	0.00187	0.00199
	RN	(!CK * !D * !SE * !SI)	0.00250	0.00262	0.00274
	RN	(!CK * !D * !SE * !SI)	-0.00004	-0.00004	-0.00003
	RN	(!CK * !D * !SE * !SI)	-0.00000	0.00001	0.00001
	RN	(!CK * !D * !SE * !SI)	0.00175	0.00187	0.00199

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFRX3H7H	CK	-	0.00300	0.00310	0.00321
	CK	-	0.00002	0.00003	0.00005
	CK	-	-0.00003	-0.00001	0.00000
	CK	-	0.00355	0.00366	0.00376

Passive power(pJ) for CK rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFRX3H7H	**(D * RN * SE * SI)**	0.00190	0.00196	0.00202
	(D * RN * SE * SI)	-0.00002	-0.00001	-0.00000
	(D * RN * SE * SI)	0.00000	0.00000	0.00000
	(D * RN * SE * SI)	0.00275	0.00281	0.00288
	(D * RN * SE * !SI)	0.00193	0.00199	0.00206
	(D * RN * SE * !SI)	-0.00003	-0.00002	-0.00001
	(D * RN * SE * !SI)	-0.00001	-0.00001	-0.00001
	(D * RN * SE * !SI)	0.00278	0.00284	0.00292
	(D * RN * !SE * SI)	0.00198	0.00204	0.00211
	(D * RN * !SE * SI)	-0.00002	-0.00001	-0.00000
	(D * RN * !SE * SI)	0.00000	0.00000	0.00000
	(D * RN * !SE * SI)	0.00284	0.00289	0.00296
	(D * RN * !SE * !SI)	0.00198	0.00204	0.00211
	(D * RN * !SE * !SI)	-0.00002	-0.00001	-0.00000
	(D * RN * !SE * !SI)	0.00000	0.00000	0.00000
	(D * RN * !SE * !SI)	0.00284	0.00289	0.00296
	(D * !RN * SE * SI)	0.00252	0.00260	0.00268
	(D * !RN * SE * SI)	0.00011	0.00011	0.00012
	(D * !RN * SE * SI)	-0.00013	-0.00013	-0.00012
	(D * !RN * SE * SI)	0.00366	0.00374	0.00382
	(D * !RN * SE * !SI)	0.00194	0.00199	0.00206
	(D * !RN * SE * !SI)	-0.00002	-0.00001	-0.00001
	(D * !RN * SE * !SI)	-0.00001	-0.00001	-0.00001
	(D * !RN * SE * !SI)	0.00279	0.00284	0.00291
	(D * !RN * !SE * SI)	0.00260	0.00268	0.00275
	(D * !RN * !SE * SI)	0.00010	0.00011	0.00012
	(D * !RN * !SE * SI)	-0.00013	-0.00012	-0.00012
	(D * !RN * !SE * SI)	0.00374	0.00382	0.00391
	(D * !RN * !SE * !SI)	0.00260	0.00268	0.00275
	(D * !RN * !SE * !SI)	0.00010	0.00011	0.00012
	(D * !RN * !SE * !SI)	-0.00013	-0.00013	-0.00012
	(D * !RN * !SE * !SI)	0.00374	0.00382	0.00391
	(!D * RN * SE * SI)	0.00190	0.00196	0.00202
	(!D * RN * SE * SI)	-0.00002	-0.00001	-0.00000
	(!D * RN * SE * SI)	0.00000	0.00000	0.00000
	(!D * RN * SE * SI)	0.00275	0.00281	0.00288
	(!D * RN * SE * !SI)	0.00193	0.00199	0.00206
	(!D * RN * SE * !SI)	-0.00003	-0.00002	-0.00001
	(!D * RN * SE * !SI)	-0.00001	-0.00001	-0.00001
	(!D * RN * SE * !SI)	0.00278	0.00284	0.00292
	(!D * RN * !SE * SI)	0.00201	0.00208	0.00214
	(!D * RN * !SE * SI)	-0.00002	-0.00001	-0.00000
	(!D * RN * !SE * SI)	-0.00001	-0.00001	-0.00000
	(!D * RN * !SE * SI)	0.00286	0.00293	0.00300
	(!D * RN * !SE * !SI)	0.00201	0.00208	0.00214
	(!D * RN * !SE * !SI)	-0.00002	-0.00001	-0.00000
	(!D * RN * !SE * !SI)	-0.00001	-0.00001	-0.00000
	(!D * RN * !SE * !SI)	0.00286	0.00293	0.00300
	(!D * !RN * SE * SI)	0.00252	0.00260	0.00268
	(!D * !RN * SE * SI)	0.00011	0.00011	0.00012
	(!D * !RN * SE * SI)	-0.00013	-0.00013	-0.00012
	(!D * !RN * SE * SI)	0.00366	0.00374	0.00382
	(!D * !RN * SE * !SI)	0.00194	0.00199	0.00206
	(!D * !RN * SE * !SI)	-0.00002	-0.00001	-0.00001
	(!D * !RN * SE * !SI)	-0.00001	-0.00001	-0.00001
	(!D * !RN * SE * !SI)	0.00279	0.00284	0.00291
	(!D * !RN * !SE * SI)	0.00202	0.00208	0.00215
	(!D * !RN * !SE * SI)	-0.00002	-0.00002	-0.00001
	(!D * !RN * !SE * SI)	-0.00001	-0.00001	-0.00001
	(!D * !RN * !SE * SI)	0.00287	0.00293	0.00299
	(!D * !RN * !SE * !SI)	0.00202	0.00208	0.00214
	(!D * !RN * !SE * !SI)	-0.00002	-0.00002	-0.00001
	(!D * !RN * !SE * !SI)	-0.00001	-0.00001	-0.00001
	(!D * !RN * !SE * !SI)	0.00287	0.00293	0.00299

Passive power(pJ) for CK falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFRX3H7H	**(D * RN * SE * SI)**	0.00460	0.00468	0.00475
	(D * RN * SE * SI)	0.00003	0.00004	0.00005
	(D * RN * SE * SI)	0.00000	0.00000	0.00000
	(D * RN * SE * SI)	0.00414	0.00422	0.00431
	(D * RN * SE * !SI)	0.00469	0.00479	0.00489
	(D * RN * SE * !SI)	0.00001	0.00002	0.00003
	(D * RN * SE * !SI)	0.00002	0.00003	0.00004
	(D * RN * SE * !SI)	0.00350	0.00360	0.00370
	(D * RN * !SE * SI)	0.00452	0.00460	0.00467
	(D * RN * !SE * SI)	0.00003	0.00004	0.00005
	(D * RN * !SE * SI)	-0.00000	-0.00000	0.00000
	(D * RN * !SE * SI)	0.00406	0.00413	0.00422
	(D * RN * !SE * !SI)	0.00452	0.00459	0.00467
	(D * RN * !SE * !SI)	0.00003	0.00004	0.00005
	(D * RN * !SE * !SI)	-0.00000	-0.00000	0.00000
	(D * RN * !SE * !SI)	0.00406	0.00413	0.00422
	(D * !RN * SE * SI)	0.00396	0.00402	0.00410
	(D * !RN * SE * SI)	-0.00011	-0.00011	-0.00010
	(D * !RN * SE * SI)	0.00012	0.00013	0.00014
	(D * !RN * SE * SI)	0.00283	0.00288	0.00295
	(D * !RN * SE * !SI)	0.00286	0.00291	0.00299
	(D * !RN * SE * !SI)	0.00001	0.00002	0.00003
	(D * !RN * SE * !SI)	0.00001	0.00001	0.00002
	(D * !RN * SE * !SI)	0.00201	0.00206	0.00213
	(D * !RN * !SE * SI)	0.00387	0.00393	0.00400
	(D * !RN * !SE * SI)	-0.00012	-0.00011	-0.00009
	(D * !RN * !SE * SI)	0.00012	0.00012	0.00013
	(D * !RN * !SE * SI)	0.00274	0.00281	0.00289
	(D * !RN * !SE * !SI)	0.00387	0.00393	0.00400
	(D * !RN * !SE * !SI)	-0.00012	-0.00011	-0.00009
	(D * !RN * !SE * !SI)	0.00012	0.00013	0.00013
	(D * !RN * !SE * !SI)	0.00274	0.00281	0.00288
	(!D * RN * SE * SI)	0.00460	0.00468	0.00477
	(!D * RN * SE * SI)	0.00003	0.00004	0.00005
	(!D * RN * SE * SI)	0.00000	0.00000	0.00000
	(!D * RN * SE * SI)	0.00414	0.00421	0.00429
	(!D * RN * SE * !SI)	0.00469	0.00479	0.00489
	(!D * RN * SE * !SI)	0.00001	0.00002	0.00003
	(!D * RN * SE * !SI)	0.00002	0.00003	0.00004
	(!D * RN * SE * !SI)	0.00350	0.00360	0.00370
	(!D * RN * !SE * SI)	0.00461	0.00471	0.00480
	(!D * RN * !SE * SI)	0.00001	0.00001	0.00002
	(!D * RN * !SE * SI)	0.00002	0.00003	0.00003
	(!D * RN * !SE * SI)	0.00342	0.00352	0.00361
	(!D * RN * !SE * !SI)	0.00461	0.00470	0.00480
	(!D * RN * !SE * !SI)	0.00001	0.00002	0.00003
	(!D * RN * !SE * !SI)	0.00002	0.00003	0.00004
	(!D * RN * !SE * !SI)	0.00342	0.00351	0.00361
	(!D * !RN * SE * SI)	0.00396	0.00402	0.00410
	(!D * !RN * SE * SI)	-0.00011	-0.00011	-0.00010
	(!D * !RN * SE * SI)	0.00012	0.00013	0.00014
	(!D * !RN * SE * SI)	0.00283	0.00288	0.00295
	(!D * !RN * SE * !SI)	0.00286	0.00291	0.00299
	(!D * !RN * SE * !SI)	0.00001	0.00002	0.00002
	(!D * !RN * SE * !SI)	0.00001	0.00001	0.00002
	(!D * !RN * SE * !SI)	0.00201	0.00206	0.00213
	(!D * !RN * !SE * SI)	0.00277	0.00283	0.00288
	(!D * !RN * !SE * SI)	0.00001	0.00002	0.00003
	(!D * !RN * !SE * SI)	0.00001	0.00001	0.00002
	(!D * !RN * !SE * SI)	0.00192	0.00198	0.00205
	(!D * !RN * !SE * !SI)	0.00277	0.00282	0.00288
	(!D * !RN * !SE * !SI)	0.00001	0.00002	0.00003
	(!D * !RN * !SE * !SI)	0.00001	0.00001	0.00002
	(!D * !RN * !SE * !SI)	0.00192	0.00198	0.00205

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFRX3H7H	**(CK * RN * SE * SI)**	-0.00014	-0.00013	-0.00011
	(CK * RN * SE * SI)	-0.00003	-0.00003	-0.00003
	(CK * RN * SE * SI)	0.00002	0.00002	0.00002
	(CK * RN * SE * SI)	0.00031	0.00031	0.00032
	(CK * RN * SE * !SI)	-0.00016	-0.00015	-0.00013
	(CK * RN * SE * !SI)	-0.00003	-0.00003	-0.00003
	(CK * RN * SE * !SI)	0.00002	0.00002	0.00002
	(CK * RN * SE * !SI)	0.00028	0.00029	0.00029
	(CK * RN * !SE * SI)	0.00043	0.00044	0.00047
	(CK * RN * !SE * SI)	0.00018	0.00019	0.00020
	(CK * RN * !SE * SI)	-0.00015	-0.00014	-0.00014
	(CK * RN * !SE * SI)	0.00163	0.00166	0.00168
	(CK * RN * !SE * !SI)	0.00043	0.00044	0.00047
	(CK * RN * !SE * !SI)	0.00018	0.00018	0.00020
	(CK * RN * !SE * !SI)	-0.00015	-0.00014	-0.00014
	(CK * RN * !SE * !SI)	0.00163	0.00166	0.00168
	(CK * !RN * SE * SI)	-0.00014	-0.00013	-0.00011
	(CK * !RN * SE * SI)	-0.00003	-0.00003	-0.00003
	(CK * !RN * SE * SI)	0.00002	0.00002	0.00002
	(CK * !RN * SE * SI)	0.00031	0.00031	0.00032
	(CK * !RN * SE * !SI)	-0.00016	-0.00015	-0.00013
	(CK * !RN * SE * !SI)	-0.00003	-0.00003	-0.00003
	(CK * !RN * SE * !SI)	0.00002	0.00002	0.00002
	(CK * !RN * SE * !SI)	0.00028	0.00029	0.00029
	(CK * !RN * !SE * SI)	0.00043	0.00044	0.00046
	(CK * !RN * !SE * SI)	0.00018	0.00018	0.00019
	(CK * !RN * !SE * SI)	-0.00015	-0.00014	-0.00014
	(CK * !RN * !SE * SI)	0.00163	0.00166	0.00168
	(CK * !RN * !SE * !SI)	0.00043	0.00044	0.00046
	(CK * !RN * !SE * !SI)	0.00018	0.00018	0.00019
	(CK * !RN * !SE * !SI)	-0.00015	-0.00014	-0.00014
	(CK * !RN * !SE * !SI)	0.00163	0.00166	0.00168
	(!CK * RN * SE * SI)	-0.00014	-0.00013	-0.00011
	(!CK * RN * SE * SI)	-0.00003	-0.00003	-0.00003
	(!CK * RN * SE * SI)	0.00002	0.00002	0.00002
	(!CK * RN * SE * SI)	0.00031	0.00031	0.00032
	(!CK * RN * SE * !SI)	-0.00016	-0.00015	-0.00013
	(!CK * RN * SE * !SI)	-0.00003	-0.00003	-0.00003
	(!CK * RN * SE * !SI)	0.00002	0.00002	0.00002
	(!CK * RN * SE * !SI)	0.00028	0.00029	0.00029
	(!CK * RN * !SE * SI)	0.00225	0.00228	0.00230
	(!CK * RN * !SE * SI)	0.00016	0.00016	0.00017
	(!CK * RN * !SE * SI)	-0.00015	-0.00014	-0.00014
	(!CK * RN * !SE * SI)	0.00378	0.00381	0.00384
	(!CK * RN * !SE * !SI)	0.00225	0.00228	0.00230
	(!CK * RN * !SE * !SI)	0.00016	0.00016	0.00017
	(!CK * RN * !SE * !SI)	-0.00016	-0.00015	-0.00014
	(!CK * RN * !SE * !SI)	0.00378	0.00381	0.00384
	(!CK * !RN * SE * SI)	-0.00014	-0.00013	-0.00011
	(!CK * !RN * SE * SI)	-0.00003	-0.00003	-0.00003
	(!CK * !RN * SE * SI)	0.00002	0.00002	0.00002
	(!CK * !RN * SE * SI)	0.00031	0.00031	0.00032
	(!CK * !RN * SE * !SI)	-0.00016	-0.00015	-0.00013
	(!CK * !RN * SE * !SI)	-0.00003	-0.00003	-0.00003
	(!CK * !RN * SE * !SI)	0.00002	0.00002	0.00002
	(!CK * !RN * SE * !SI)	0.00028	0.00029	0.00029
	(!CK * !RN * !SE * SI)	0.00165	0.00167	0.00169
	(!CK * !RN * !SE * SI)	-0.00001	-0.00001	-0.00000
	(!CK * !RN * !SE * SI)	0.00001	0.00002	0.00002
	(!CK * !RN * !SE * SI)	0.00244	0.00248	0.00250
	(!CK * !RN * !SE * !SI)	0.00165	0.00167	0.00169
	(!CK * !RN * !SE * !SI)	-0.00001	-0.00001	0.00000
	(!CK * !RN * !SE * !SI)	0.00001	0.00002	0.00002
	(!CK * !RN * !SE * !SI)	0.00244	0.00248	0.00250

Passive power(pJ) for D falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFRX3H7H	**(CK * RN * SE * SI)**	0.00013	0.00014	0.00014
	(CK * RN * SE * SI)	0.00003	0.00003	0.00003
	(CK * RN * SE * SI)	-0.00002	-0.00002	-0.00002
	(CK * RN * SE * SI)	-0.00031	-0.00030	-0.00029
	(CK * RN * SE * !SI)	0.00016	0.00016	0.00017
	(CK * RN * SE * !SI)	0.00003	0.00003	0.00003
	(CK * RN * SE * !SI)	-0.00002	-0.00002	-0.00002
	(CK * RN * SE * !SI)	-0.00029	-0.00028	-0.00026
	(CK * RN * !SE * SI)	0.00152	0.00154	0.00155
	(CK * RN * !SE * SI)	-0.00019	-0.00018	-0.00018
	(CK * RN * !SE * SI)	0.00014	0.00014	0.00015
	(CK * RN * !SE * SI)	0.00031	0.00032	0.00034
	(CK * RN * !SE * !SI)	0.00152	0.00153	0.00155
	(CK * RN * !SE * !SI)	-0.00019	-0.00018	-0.00018
	(CK * RN * !SE * !SI)	0.00014	0.00014	0.00015
	(CK * RN * !SE * !SI)	0.00031	0.00032	0.00034
	(CK * !RN * SE * SI)	0.00013	0.00014	0.00014
	(CK * !RN * SE * SI)	0.00003	0.00003	0.00003
	(CK * !RN * SE * SI)	-0.00002	-0.00002	-0.00002
	(CK * !RN * SE * SI)	-0.00031	-0.00030	-0.00029
	(CK * !RN * SE * !SI)	0.00016	0.00016	0.00017
	(CK * !RN * SE * !SI)	0.00003	0.00003	0.00003
	(CK * !RN * SE * !SI)	-0.00002	-0.00002	-0.00002
	(CK * !RN * SE * !SI)	-0.00029	-0.00028	-0.00027
	(CK * !RN * !SE * SI)	0.00152	0.00154	0.00157
	(CK * !RN * !SE * SI)	-0.00019	-0.00018	-0.00018
	(CK * !RN * !SE * SI)	0.00014	0.00014	0.00015
	(CK * !RN * !SE * SI)	0.00030	0.00032	0.00034
	(CK * !RN * !SE * !SI)	0.00152	0.00153	0.00155
	(CK * !RN * !SE * !SI)	-0.00019	-0.00018	-0.00018
	(CK * !RN * !SE * !SI)	0.00014	0.00014	0.00015
	(CK * !RN * !SE * !SI)	0.00030	0.00032	0.00034
	(!CK * RN * SE * SI)	0.00013	0.00014	0.00014
	(!CK * RN * SE * SI)	0.00003	0.00003	0.00003
	(!CK * RN * SE * SI)	-0.00002	-0.00002	-0.00002
	(!CK * RN * SE * SI)	-0.00031	-0.00030	-0.00029
	(!CK * RN * SE * !SI)	0.00016	0.00016	0.00017
	(!CK * RN * SE * !SI)	0.00003	0.00003	0.00003
	(!CK * RN * SE * !SI)	-0.00002	-0.00002	-0.00002
	(!CK * RN * SE * !SI)	-0.00029	-0.00028	-0.00027
	(!CK * RN * !SE * SI)	0.00347	0.00351	0.00355
	(!CK * RN * !SE * SI)	-0.00017	-0.00016	-0.00016
	(!CK * RN * !SE * SI)	0.00014	0.00014	0.00015
	(!CK * RN * !SE * SI)	0.00194	0.00198	0.00200
	(!CK * RN * !SE * !SI)	0.00347	0.00351	0.00354
	(!CK * RN * !SE * !SI)	-0.00017	-0.00016	-0.00016
	(!CK * RN * !SE * !SI)	0.00014	0.00015	0.00016
	(!CK * RN * !SE * !SI)	0.00194	0.00197	0.00200
	(!CK * !RN * SE * SI)	0.00013	0.00014	0.00014
	(!CK * !RN * SE * SI)	0.00003	0.00003	0.00003
	(!CK * !RN * SE * SI)	-0.00002	-0.00002	-0.00002
	(!CK * !RN * SE * SI)	-0.00031	-0.00030	-0.00029
	(!CK * !RN * SE * !SI)	0.00016	0.00016	0.00017
	(!CK * !RN * SE * !SI)	0.00003	0.00003	0.00003
	(!CK * !RN * SE * !SI)	-0.00002	-0.00002	-0.00002
	(!CK * !RN * SE * !SI)	-0.00029	-0.00028	-0.00027
	(!CK * !RN * !SE * SI)	0.00214	0.00217	0.00219
	(!CK * !RN * !SE * SI)	0.00000	0.00001	0.00001
	(!CK * !RN * !SE * SI)	-0.00002	-0.00002	-0.00001
	(!CK * !RN * !SE * SI)	0.00134	0.00136	0.00139
	(!CK * !RN * !SE * !SI)	0.00214	0.00217	0.00221
	(!CK * !RN * !SE * !SI)	0.00000	0.00001	0.00001
	(!CK * !RN * !SE * !SI)	-0.00002	-0.00002	-0.00001
	(!CK * !RN * !SE * !SI)	0.00134	0.00136	0.00139

Passive power(pJ) for RN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFRX3H7H	**(CK * D * SE * SI)**	-0.00069	-0.00068	-0.00066
	(CK * D * SE * SI)	-0.00003	-0.00002	-0.00001
	(CK * D * SE * SI)	0.00003	0.00005	0.00006
	(CK * D * SE * SI)	0.00049	0.00050	0.00052
	(CK * D * SE * !SI)	-0.00069	-0.00068	-0.00067
	(CK * D * SE * !SI)	-0.00003	-0.00002	-0.00001
	(CK * D * SE * !SI)	0.00005	0.00005	0.00006
	(CK * D * SE * !SI)	0.00048	0.00049	0.00050
	(CK * D * !SE * SI)	-0.00068	-0.00068	-0.00066
	(CK * D * !SE * SI)	-0.00003	-0.00002	-0.00001
	(CK * D * !SE * SI)	0.00003	0.00005	0.00006
	(CK * D * !SE * SI)	0.00049	0.00050	0.00052
	(CK * D * !SE * !SI)	-0.00068	-0.00068	-0.00066
	(CK * D * !SE * !SI)	-0.00003	-0.00002	-0.00001
	(CK * D * !SE * !SI)	0.00003	0.00005	0.00006
	(CK * D * !SE * !SI)	0.00049	0.00050	0.00052
	(CK * !D * SE * SI)	-0.00069	-0.00068	-0.00068
	(CK * !D * SE * SI)	-0.00003	-0.00002	-0.00001
	(CK * !D * SE * SI)	0.00003	0.00005	0.00006
	(CK * !D * SE * SI)	0.00049	0.00050	0.00052
	(CK * !D * SE * !SI)	-0.00069	-0.00068	-0.00066
	(CK * !D * SE * !SI)	-0.00003	-0.00002	-0.00001
	(CK * !D * SE * !SI)	0.00005	0.00005	0.00006
	(CK * !D * SE * !SI)	0.00048	0.00049	0.00050
	(CK * !D * !SE * SI)	-0.00068	-0.00068	-0.00066
	(CK * !D * !SE * SI)	-0.00003	-0.00002	-0.00001
	(CK * !D * !SE * SI)	0.00003	0.00005	0.00006
	(CK * !D * !SE * SI)	0.00048	0.00050	0.00052
	(CK * !D * !SE * !SI)	-0.00068	-0.00068	-0.00066
	(CK * !D * !SE * !SI)	-0.00003	-0.00002	-0.00001
	(CK * !D * !SE * !SI)	0.00003	0.00005	0.00006
	(CK * !D * !SE * !SI)	0.00048	0.00050	0.00052
	(!CK * D * SE * SI)	-0.00010	-0.00007	-0.00002
	(!CK * D * SE * SI)	0.00013	0.00016	0.00016
	(!CK * D * SE * SI)	-0.00009	-0.00007	-0.00007
	(!CK * D * SE * SI)	0.00171	0.00175	0.00180
	(!CK * D * SE * !SI)	-0.00068	-0.00067	-0.00065
	(!CK * D * SE * !SI)	-0.00003	-0.00002	-0.00002
	(!CK * D * SE * !SI)	0.00003	0.00005	0.00005
	(!CK * D * SE * !SI)	0.00050	0.00051	0.00053
	(!CK * D * !SE * SI)	-0.00010	-0.00007	-0.00002
	(!CK * D * !SE * SI)	0.00013	0.00016	0.00016
	(!CK * D * !SE * SI)	-0.00008	-0.00007	-0.00005
	(!CK * D * !SE * SI)	0.00171	0.00175	0.00180
	(!CK * D * !SE * !SI)	-0.00010	-0.00007	-0.00002
	(!CK * D * !SE * !SI)	0.00013	0.00016	0.00016
	(!CK * D * !SE * !SI)	-0.00008	-0.00007	-0.00005
	(!CK * D * !SE * !SI)	0.00171	0.00175	0.00180
	(!CK * !D * SE * SI)	-0.00010	-0.00007	-0.00002
	(!CK * !D * SE * SI)	0.00013	0.00016	0.00016
	(!CK * !D * SE * SI)	-0.00008	-0.00007	-0.00005
	(!CK * !D * SE * SI)	0.00171	0.00175	0.00180
	(!CK * !D * SE * !SI)	-0.00068	-0.00067	-0.00065
	(!CK * !D * SE * !SI)	-0.00003	-0.00002	-0.00002
	(!CK * !D * SE * !SI)	0.00003	0.00005	0.00005
	(!CK * !D * SE * !SI)	0.00050	0.00051	0.00053
	(!CK * !D * !SE * SI)	-0.00069	-0.00068	-0.00067
	(!CK * !D * !SE * SI)	-0.00003	-0.00002	0.00000
	(!CK * !D * !SE * SI)	0.00004	0.00005	0.00005
	(!CK * !D * !SE * SI)	0.00050	0.00050	0.00051
	(!CK * !D * !SE * !SI)	-0.00068	-0.00067	-0.00065
	(!CK * !D * !SE * !SI)	-0.00003	-0.00002	-0.00001
	(!CK * !D * !SE * !SI)	0.00004	0.00005	0.00005
	(!CK * !D * !SE * !SI)	0.00050	0.00050	0.00051

Passive power(pJ) for RN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFRX3H7H	**(CK * D * SE * SI)**	0.00066	0.00068	0.00069
	(CK * D * SE * SI)	0.00002	0.00003	0.00005
	(CK * D * SE * SI)	-0.00005	-0.00005	-0.00003
	(CK * D * SE * SI)	-0.00049	-0.00049	-0.00049
	(CK * D * SE * !SI)	0.00067	0.00068	0.00069
	(CK * D * SE * !SI)	0.00002	0.00003	0.00003
	(CK * D * SE * !SI)	-0.00006	-0.00005	-0.00004
	(CK * D * SE * !SI)	-0.00050	-0.00049	-0.00048
	(CK * D * !SE * SI)	0.00066	0.00068	0.00069
	(CK * D * !SE * SI)	0.00002	0.00003	0.00005
	(CK * D * !SE * SI)	-0.00005	-0.00005	-0.00003
	(CK * D * !SE * SI)	-0.00049	-0.00049	-0.00049
	(CK * D * !SE * !SI)	0.00066	0.00068	0.00069
	(CK * D * !SE * !SI)	0.00002	0.00003	0.00005
	(CK * D * !SE * !SI)	-0.00005	-0.00005	-0.00003
	(CK * D * !SE * !SI)	-0.00049	-0.00049	-0.00049
	(CK * !D * SE * SI)	0.00068	0.00068	0.00069
	(CK * !D * SE * SI)	0.00002	0.00003	0.00003
	(CK * !D * SE * SI)	-0.00005	-0.00005	-0.00003
	(CK * !D * SE * SI)	-0.00049	-0.00049	-0.00047
	(CK * !D * SE * !SI)	0.00066	0.00068	0.00069
	(CK * !D * SE * !SI)	0.00002	0.00003	0.00005
	(CK * !D * SE * !SI)	-0.00006	-0.00005	-0.00005
	(CK * !D * SE * !SI)	-0.00049	-0.00049	-0.00048
	(CK * !D * !SE * SI)	0.00066	0.00068	0.00069
	(CK * !D * !SE * SI)	0.00002	0.00003	0.00005
	(CK * !D * !SE * SI)	-0.00006	-0.00005	-0.00003
	(CK * !D * !SE * SI)	-0.00049	-0.00049	-0.00048
	(CK * !D * !SE * !SI)	0.00066	0.00068	0.00069
	(CK * !D * !SE * !SI)	0.00002	0.00003	0.00005
	(CK * !D * !SE * !SI)	-0.00006	-0.00005	-0.00003
	(CK * !D * !SE * !SI)	-0.00049	-0.00049	-0.00048
	(!CK * D * SE * SI)	0.00159	0.00162	0.00168
	(!CK * D * SE * SI)	-0.00016	-0.00016	-0.00013
	(!CK * D * SE * SI)	0.00007	0.00007	0.00009
	(!CK * D * SE * SI)	-0.00023	-0.00020	-0.00015
	(!CK * D * SE * !SI)	0.00065	0.00068	0.00068
	(!CK * D * SE * !SI)	0.00002	0.00003	0.00005
	(!CK * D * SE * !SI)	-0.00005	-0.00005	-0.00003
	(!CK * D * SE * !SI)	-0.00050	-0.00049	-0.00049
	(!CK * D * !SE * SI)	0.00159	0.00162	0.00167
	(!CK * D * !SE * SI)	-0.00016	-0.00016	-0.00013
	(!CK * D * !SE * SI)	0.00005	0.00007	0.00008
	(!CK * D * !SE * SI)	-0.00023	-0.00019	-0.00013
	(!CK * D * !SE * !SI)	0.00159	0.00162	0.00167
	(!CK * D * !SE * !SI)	-0.00016	-0.00016	-0.00013
	(!CK * D * !SE * !SI)	0.00005	0.00007	0.00008
	(!CK * D * !SE * !SI)	-0.00023	-0.00019	-0.00013
	(!CK * !D * SE * SI)	0.00159	0.00162	0.00167
	(!CK * !D * SE * SI)	-0.00016	-0.00016	-0.00013
	(!CK * !D * SE * SI)	0.00005	0.00007	0.00008
	(!CK * !D * SE * SI)	-0.00023	-0.00019	-0.00013
	(!CK * !D * SE * !SI)	0.00065	0.00068	0.00068
	(!CK * !D * SE * !SI)	0.00002	0.00003	0.00005
	(!CK * !D * SE * !SI)	-0.00005	-0.00005	-0.00003
	(!CK * !D * SE * !SI)	-0.00050	-0.00049	-0.00049
	(!CK * !D * !SE * SI)	0.00067	0.00068	0.00069
	(!CK * !D * !SE * SI)	0.00001	0.00002	0.00003
	(!CK * !D * !SE * SI)	-0.00005	-0.00005	-0.00004
	(!CK * !D * !SE * SI)	-0.00050	-0.00049	-0.00048
	(!CK * !D * !SE * !SI)	0.00067	0.00068	0.00069
	(!CK * !D * !SE * !SI)	0.00001	0.00002	0.00003
	(!CK * !D * !SE * !SI)	-0.00005	-0.00005	-0.00004
	(!CK * !D * !SE * !SI)	-0.00050	-0.00049	-0.00048

Passive power(pJ) for SE rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFRX3H7H	**(CK * D * RN * SI)**	-0.00020	-0.00017	-0.00013
	(CK * D * RN * SI)	0.00003	0.00003	0.00004
	(CK * D * RN * SI)	-0.00003	-0.00003	-0.00002
	(CK * D * RN * SI)	0.00123	0.00126	0.00129
	(CK * D * RN * !SI)	0.00143	0.00149	0.00154
	(CK * D * RN * !SI)	-0.00012	-0.00012	-0.00010
	(CK * D * RN * !SI)	0.00006	0.00008	0.00009
	(CK * D * RN * !SI)	0.00230	0.00236	0.00245
	(CK * D * !RN * SI)	-0.00020	-0.00017	-0.00013
	(CK * D * !RN * SI)	0.00003	0.00003	0.00004
	(CK * D * !RN * SI)	-0.00003	-0.00003	-0.00002
	(CK * D * !RN * SI)	0.00123	0.00126	0.00129
	(CK * D * !RN * !SI)	0.00143	0.00149	0.00155
	(CK * D * !RN * !SI)	-0.00012	-0.00012	-0.00011
	(CK * D * !RN * !SI)	0.00007	0.00008	0.00010
	(CK * D * !RN * !SI)	0.00229	0.00235	0.00240
	(CK * !D * RN * SI)	-0.00015	-0.00010	-0.00003
	(CK * !D * RN * SI)	0.00018	0.00019	0.00020
	(CK * !D * RN * SI)	-0.00016	-0.00015	-0.00015
	(CK * !D * RN * SI)	0.00186	0.00191	0.00199
	(CK * !D * RN * !SI)	-0.00011	-0.00008	-0.00002
	(CK * !D * RN * !SI)	0.00002	0.00003	0.00004
	(CK * !D * RN * !SI)	-0.00004	-0.00003	-0.00003
	(CK * !D * RN * !SI)	0.00132	0.00135	0.00139
	(CK * !D * !RN * SI)	-0.00015	-0.00010	-0.00002
	(CK * !D * !RN * SI)	0.00018	0.00019	0.00019
	(CK * !D * !RN * SI)	-0.00017	-0.00016	-0.00015
	(CK * !D * !RN * SI)	0.00186	0.00191	0.00198
	(CK * !D * !RN * !SI)	-0.00011	-0.00008	-0.00004
	(CK * !D * !RN * !SI)	0.00003	0.00004	0.00004
	(CK * !D * !RN * !SI)	-0.00003	-0.00003	-0.00003
	(CK * !D * !RN * !SI)	0.00132	0.00135	0.00140
	(!CK * D * RN * SI)	-0.00011	-0.00008	-0.00004
	(!CK * D * RN * SI)	0.00003	0.00003	0.00004
	(!CK * D * RN * SI)	-0.00003	-0.00003	-0.00002
	(!CK * D * RN * SI)	0.00132	0.00134	0.00138
	(!CK * D * RN * !SI)	0.00348	0.00354	0.00364
	(!CK * D * RN * !SI)	-0.00011	-0.00010	-0.00009
	(!CK * D * RN * !SI)	0.00007	0.00008	0.00010
	(!CK * D * RN * !SI)	0.00403	0.00409	0.00416
	(!CK * D * !RN * SI)	-0.00011	-0.00009	-0.00004
	(!CK * D * !RN * SI)	0.00003	0.00003	0.00004
	(!CK * D * !RN * SI)	-0.00004	-0.00003	-0.00002
	(!CK * D * !RN * SI)	0.00132	0.00134	0.00138
	(!CK * D * !RN * !SI)	0.00215	0.00221	0.00229
	(!CK * D * !RN * !SI)	0.00005	0.00007	0.00008
	(!CK * D * !RN * !SI)	-0.00008	-0.00007	-0.00007
	(!CK * D * !RN * !SI)	0.00342	0.00348	0.00355
	(!CK * !D * RN * SI)	0.00176	0.00182	0.00192
	(!CK * !D * RN * SI)	0.00014	0.00017	0.00018
	(!CK * !D * RN * SI)	-0.00017	-0.00016	-0.00016
	(!CK * !D * RN * SI)	0.00409	0.00415	0.00423
	(!CK * !D * RN * !SI)	-0.00002	0.00001	0.00006
	(!CK * !D * RN * !SI)	0.00001	0.00003	0.00004
	(!CK * !D * RN * !SI)	-0.00004	-0.00003	-0.00003
	(!CK * !D * RN * !SI)	0.00141	0.00144	0.00147
	(!CK * !D * !RN * SI)	0.00116	0.00121	0.00129
	(!CK * !D * !RN * SI)	-0.00001	-0.00000	0.00000
	(!CK * !D * !RN * SI)	0.00000	0.00000	0.00001
	(!CK * !D * !RN * SI)	0.00276	0.00282	0.00289
	(!CK * !D * !RN * !SI)	-0.00002	0.00001	0.00006
	(!CK * !D * !RN * !SI)	0.00001	0.00003	0.00004
	(!CK * !D * !RN * !SI)	-0.00004	-0.00003	-0.00003
	(!CK * !D * !RN * !SI)	0.00141	0.00144	0.00147

Passive power(pJ) for SE falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFRX3H7H	**(CK * D * RN * SI)**	0.00132	0.00135	0.00138
	(CK * D * RN * SI)	-0.00003	-0.00003	-0.00002
	(CK * D * RN * SI)	0.00003	0.00003	0.00005
	(CK * D * RN * SI)	-0.00010	-0.00008	-0.00005
	(CK * D * RN * !SI)	0.00193	0.00195	0.00198
	(CK * D * RN * !SI)	0.00011	0.00012	0.00015
	(CK * D * RN * !SI)	-0.00009	-0.00008	-0.00006
	(CK * D * RN * !SI)	0.00107	0.00109	0.00112
	(CK * D * !RN * SI)	0.00132	0.00135	0.00141
	(CK * D * !RN * SI)	-0.00003	-0.00003	-0.00003
	(CK * D * !RN * SI)	0.00003	0.00003	0.00004
	(CK * D * !RN * SI)	-0.00010	-0.00008	-0.00005
	(CK * D * !RN * !SI)	0.00193	0.00196	0.00198
	(CK * D * !RN * !SI)	0.00011	0.00012	0.00013
	(CK * D * !RN * !SI)	-0.00009	-0.00008	-0.00007
	(CK * D * !RN * !SI)	0.00107	0.00109	0.00113
	(CK * !D * RN * SI)	0.00221	0.00226	0.00231
	(CK * !D * RN * SI)	-0.00019	-0.00019	-0.00017
	(CK * !D * RN * SI)	0.00015	0.00015	0.00016
	(CK * !D * RN * SI)	0.00020	0.00025	0.00033
	(CK * !D * RN * !SI)	0.00122	0.00125	0.00128
	(CK * !D * RN * !SI)	-0.00004	-0.00003	-0.00001
	(CK * !D * RN * !SI)	0.00004	0.00004	0.00004
	(CK * !D * RN * !SI)	-0.00021	-0.00018	-0.00014
	(CK * !D * !RN * SI)	0.00221	0.00226	0.00231
	(CK * !D * !RN * SI)	-0.00019	-0.00018	-0.00017
	(CK * !D * !RN * SI)	0.00016	0.00016	0.00017
	(CK * !D * !RN * SI)	0.00020	0.00025	0.00032
	(CK * !D * !RN * !SI)	0.00123	0.00125	0.00128
	(CK * !D * !RN * !SI)	-0.00004	-0.00003	-0.00002
	(CK * !D * !RN * !SI)	0.00004	0.00004	0.00004
	(CK * !D * !RN * !SI)	-0.00021	-0.00018	-0.00015
	(!CK * D * RN * SI)	0.00124	0.00127	0.00129
	(!CK * D * RN * SI)	-0.00003	-0.00003	-0.00001
	(!CK * D * RN * SI)	0.00003	0.00003	0.00004
	(!CK * D * RN * SI)	-0.00019	-0.00016	-0.00012
	(!CK * D * RN * !SI)	0.00369	0.00371	0.00374
	(!CK * D * RN * !SI)	0.00009	0.00010	0.00011
	(!CK * D * RN * !SI)	-0.00010	-0.00008	-0.00007
	(!CK * D * RN * !SI)	0.00315	0.00317	0.00321
	(!CK * D * !RN * SI)	0.00124	0.00127	0.00133
	(!CK * D * !RN * SI)	-0.00003	-0.00003	-0.00003
	(!CK * D * !RN * SI)	0.00003	0.00003	0.00004
	(!CK * D * !RN * SI)	-0.00019	-0.00016	-0.00012
	(!CK * D * !RN * !SI)	0.00308	0.00311	0.00314
	(!CK * D * !RN * !SI)	-0.00008	-0.00007	-0.00005
	(!CK * D * !RN * !SI)	0.00007	0.00007	0.00008
	(!CK * D * !RN * !SI)	0.00181	0.00184	0.00187
	(!CK * !D * RN * SI)	0.00409	0.00415	0.00420
	(!CK * !D * RN * SI)	-0.00018	-0.00017	-0.00014
	(!CK * !D * RN * SI)	0.00016	0.00016	0.00017
	(!CK * !D * RN * SI)	0.00176	0.00182	0.00190
	(!CK * !D * RN * !SI)	0.00114	0.00117	0.00120
	(!CK * !D * RN * !SI)	-0.00004	-0.00003	-0.00001
	(!CK * !D * RN * !SI)	0.00004	0.00004	0.00004
	(!CK * !D * RN * !SI)	-0.00030	-0.00027	-0.00022
	(!CK * !D * !RN * SI)	0.00275	0.00281	0.00291
	(!CK * !D * !RN * SI)	0.00000	0.00001	0.00002
	(!CK * !D * !RN * SI)	-0.00001	-0.00000	0.00000
	(!CK * !D * !RN * SI)	0.00115	0.00121	0.00128
	(!CK * !D * !RN * !SI)	0.00114	0.00117	0.00120
	(!CK * !D * !RN * !SI)	-0.00004	-0.00003	-0.00001
	(!CK * !D * !RN * !SI)	0.00003	0.00004	0.00004
	(!CK * !D * !RN * !SI)	-0.00030	-0.00027	-0.00022

Passive power(pJ) for SI rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFRX3H7H	**(CK * D * RN * SE)**	0.00009	0.00011	0.00012
	(CK * D * RN * SE)	0.00017	0.00017	0.00017
	(CK * D * RN * SE)	-0.00014	-0.00013	-0.00013
	(CK * D * RN * SE)	0.00122	0.00124	0.00126
	(CK * D * RN * !SE)	-0.00017	-0.00016	-0.00015
	(CK * D * RN * !SE)	-0.00002	-0.00002	-0.00002
	(CK * D * RN * !SE)	0.00002	0.00002	0.00002
	(CK * D * RN * !SE)	0.00022	0.00023	0.00023
	(CK * D * !RN * SE)	0.00009	0.00011	0.00012
	(CK * D * !RN * SE)	0.00017	0.00017	0.00017
	(CK * D * !RN * SE)	-0.00014	-0.00013	-0.00013
	(CK * D * !RN * SE)	0.00122	0.00123	0.00126
	(CK * D * !RN * !SE)	-0.00017	-0.00016	-0.00015
	(CK * D * !RN * !SE)	-0.00002	-0.00002	-0.00002
	(CK * D * !RN * !SE)	0.00002	0.00002	0.00002
	(CK * D * !RN * !SE)	0.00022	0.00023	0.00023
	(CK * !D * RN * SE)	0.00010	0.00011	0.00012
	(CK * !D * RN * SE)	0.00017	0.00017	0.00018
	(CK * !D * RN * SE)	-0.00014	-0.00013	-0.00012
	(CK * !D * RN * SE)	0.00122	0.00124	0.00125
	(CK * !D * RN * !SE)	-0.00017	-0.00016	-0.00015
	(CK * !D * RN * !SE)	-0.00003	-0.00003	-0.00002
	(CK * !D * RN * !SE)	0.00001	0.00002	0.00002
	(CK * !D * RN * !SE)	0.00023	0.00023	0.00023
	(CK * !D * !RN * SE)	0.00010	0.00011	0.00012
	(CK * !D * !RN * SE)	0.00016	0.00017	0.00017
	(CK * !D * !RN * SE)	-0.00014	-0.00014	-0.00013
	(CK * !D * !RN * SE)	0.00122	0.00123	0.00124
	(CK * !D * !RN * !SE)	-0.00017	-0.00016	-0.00015
	(CK * !D * !RN * !SE)	-0.00003	-0.00003	-0.00002
	(CK * !D * !RN * !SE)	0.00001	0.00002	0.00002
	(CK * !D * !RN * !SE)	0.00023	0.00023	0.00023
	(!CK * D * RN * SE)	0.00192	0.00194	0.00196
	(!CK * D * RN * SE)	0.00015	0.00016	0.00017
	(!CK * D * RN * SE)	-0.00015	-0.00014	-0.00012
	(!CK * D * RN * SE)	0.00337	0.00340	0.00342
	(!CK * D * RN * !SE)	-0.00017	-0.00016	-0.00015
	(!CK * D * RN * !SE)	-0.00002	-0.00002	-0.00002
	(!CK * D * RN * !SE)	0.00002	0.00002	0.00002
	(!CK * D * RN * !SE)	0.00022	0.00023	0.00023
	(!CK * D * !RN * SE)	0.00131	0.00133	0.00135
	(!CK * D * !RN * SE)	-0.00003	-0.00002	-0.00002
	(!CK * D * !RN * SE)	0.00001	0.00002	0.00003
	(!CK * D * !RN * SE)	0.00204	0.00206	0.00208
	(!CK * D * !RN * !SE)	-0.00017	-0.00016	-0.00015
	(!CK * D * !RN * !SE)	-0.00002	-0.00002	-0.00002
	(!CK * D * !RN * !SE)	0.00002	0.00002	0.00002
	(!CK * D * !RN * !SE)	0.00022	0.00023	0.00023
	(!CK * !D * RN * SE)	0.00192	0.00194	0.00196
	(!CK * !D * RN * SE)	0.00015	0.00015	0.00015
	(!CK * !D * RN * SE)	-0.00015	-0.00014	-0.00013
	(!CK * !D * RN * SE)	0.00337	0.00340	0.00342
	(!CK * !D * RN * !SE)	-0.00017	-0.00016	-0.00015
	(!CK * !D * RN * !SE)	-0.00003	-0.00003	-0.00002
	(!CK * !D * RN * !SE)	0.00001	0.00002	0.00002
	(!CK * !D * RN * !SE)	0.00023	0.00023	0.00023
	(!CK * !D * !RN * SE)	0.00132	0.00134	0.00135
	(!CK * !D * !RN * SE)	-0.00003	-0.00002	-0.00001
	(!CK * !D * !RN * SE)	0.00002	0.00002	0.00004
	(!CK * !D * !RN * SE)	0.00204	0.00205	0.00207
	(!CK * !D * !RN * !SE)	-0.00017	-0.00016	-0.00015
	(!CK * !D * !RN * !SE)	-0.00003	-0.00003	-0.00002
	(!CK * !D * !RN * !SE)	0.00001	0.00002	0.00002
	(!CK * !D * !RN * !SE)	0.00023	0.00023	0.00023

Passive power(pJ) for SI falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

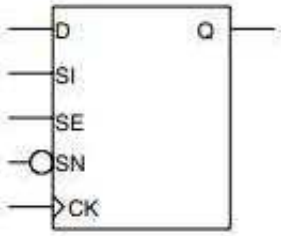
SDFFRX3H7H	**(CK * D * RN * SE)**	0.00178	0.00180	0.00182
	(CK * D * RN * SE)	-0.00017	-0.00017	-0.00017
	(CK * D * RN * SE)	0.00013	0.00013	0.00014
	(CK * D * RN * SE)	0.00067	0.00068	0.00069
	(CK * D * RN * !SE)	0.00017	0.00017	0.00017
	(CK * D * RN * !SE)	0.00002	0.00002	0.00002
	(CK * D * RN * !SE)	-0.00002	-0.00002	-0.00002
	(CK * D * RN * !SE)	-0.00023	-0.00022	-0.00020
	(CK * D * !RN * SE)	0.00178	0.00180	0.00182
	(CK * D * !RN * SE)	-0.00017	-0.00017	-0.00017
	(CK * D * !RN * SE)	0.00013	0.00013	0.00014
	(CK * D * !RN * SE)	0.00067	0.00068	0.00070
	(CK * D * !RN * !SE)	0.00017	0.00017	0.00017
	(CK * D * !RN * !SE)	0.00002	0.00002	0.00002
	(CK * D * !RN * !SE)	-0.00002	-0.00002	-0.00002
	(CK * D * !RN * !SE)	-0.00023	-0.00022	-0.00020
	(CK * !D * RN * SE)	0.00178	0.00180	0.00181
	(CK * !D * RN * SE)	-0.00017	-0.00017	-0.00017
	(CK * !D * RN * SE)	0.00012	0.00013	0.00014
	(CK * !D * RN * SE)	0.00067	0.00068	0.00070
	(CK * !D * RN * !SE)	0.00017	0.00017	0.00018
	(CK * !D * RN * !SE)	0.00002	0.00003	0.00003
	(CK * !D * RN * !SE)	-0.00002	-0.00002	-0.00001
	(CK * !D * RN * !SE)	-0.00023	-0.00022	-0.00020
	(CK * !D * !RN * SE)	0.00178	0.00180	0.00182
	(CK * !D * !RN * SE)	-0.00017	-0.00017	-0.00016
	(CK * !D * !RN * SE)	0.00013	0.00014	0.00014
	(CK * !D * !RN * SE)	0.00066	0.00067	0.00069
	(CK * !D * !RN * !SE)	0.00017	0.00017	0.00018
	(CK * !D * !RN * !SE)	0.00002	0.00003	0.00003
	(CK * !D * !RN * !SE)	-0.00002	-0.00002	-0.00001
	(CK * !D * !RN * !SE)	-0.00023	-0.00022	-0.00020
	(!CK * D * RN * SE)	0.00373	0.00377	0.00379
	(!CK * D * RN * SE)	-0.00017	-0.00016	-0.00015
	(!CK * D * RN * SE)	0.00012	0.00014	0.00015
	(!CK * D * RN * SE)	0.00230	0.00233	0.00236
	(!CK * D * RN * !SE)	0.00017	0.00017	0.00017
	(!CK * D * RN * !SE)	0.00002	0.00002	0.00002
	(!CK * D * RN * !SE)	-0.00002	-0.00002	-0.00002
	(!CK * D * RN * !SE)	-0.00023	-0.00022	-0.00020
	(!CK * D * !RN * SE)	0.00241	0.00243	0.00245
	(!CK * D * !RN * SE)	0.00002	0.00002	0.00003
	(!CK * D * !RN * SE)	-0.00003	-0.00002	-0.00001
	(!CK * D * !RN * SE)	0.00170	0.00172	0.00174
	(!CK * D * !RN * !SE)	0.00017	0.00017	0.00017
	(!CK * D * !RN * !SE)	0.00002	0.00002	0.00002
	(!CK * D * !RN * !SE)	-0.00002	-0.00002	-0.00002
	(!CK * D * !RN * !SE)	-0.00023	-0.00022	-0.00020
	(!CK * !D * RN * SE)	0.00373	0.00376	0.00379
	(!CK * !D * RN * SE)	-0.00015	-0.00015	-0.00015
	(!CK * !D * RN * SE)	0.00013	0.00014	0.00015
	(!CK * !D * RN * SE)	0.00230	0.00232	0.00235
	(!CK * !D * RN * !SE)	0.00017	0.00017	0.00018
	(!CK * !D * RN * !SE)	0.00002	0.00003	0.00003
	(!CK * !D * RN * !SE)	-0.00002	-0.00002	-0.00001
	(!CK * !D * RN * !SE)	-0.00023	-0.00022	-0.00020
	(!CK * !D * !RN * SE)	0.00240	0.00243	0.00245
	(!CK * !D * !RN * SE)	0.00001	0.00002	0.00003
	(!CK * !D * !RN * SE)	-0.00003	-0.00002	-0.00002
	(!CK * !D * !RN * SE)	0.00169	0.00172	0.00173
	(!CK * !D * !RN * !SE)	0.00017	0.00017	0.00018
	(!CK * !D * !RN * !SE)	0.00002	0.00003	0.00003
	(!CK * !D * !RN * !SE)	-0.00002	-0.00002	-0.00001
	(!CK * !D * !RN * !SE)	-0.00023	-0.00022	-0.00020

SDFFSQX1H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The SDFFSQ cell is a high-speed, positive edge-triggered, static D-type flip-flop with scan input (SI), active-high scan enable (SE), and asynchronous active-low set (SN). The cell has a single output (Q).



Truth Table

INPUT					OUTPUT
CK	**D**	**SE**	**SI**	**SN**	**Q**
R	**0**	**0**	**x**	**1**	**0**
R	**x**	**1**	**0**	**1**	**0**
R	**x**	**1**	**1**	**1**	**1**
R	**1**	**0**	**x**	**1**	**1**
x	**x**	**x**	**x**	**0**	**1**
x	**x**	**x**	**x**	**1**	**IQ**

Footprint

Cell Name	Area
SDFFSQX1H7H	10.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	CK	D	SE	SI	SN	Q
SDFFSQX1H7H	0.00101	0.00080	0.00198	0.00084	0.00089	0.04124

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
SDFFSQX1H7H	0.00000	0.07504	0.07975

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFSQX1H7H	CK->Q (RR)	(D * SE * SN)	0.17192	0.35925	0.80415
	CK->Q (RR)	(D * !SE * SI * SN) + (!D * SE * !SI * SN)	0.17195	0.35928	0.80424
	CK->Q (RR)	(!SE * !SI * SN)	0.17195	0.35928	0.80424
	CK->Q (RR)	(!D * SI * SN)	0.17192	0.35925	0.80415
	SN->Q (FR)	(CK * D * SE * SI)	0.10881	0.28961	0.70297
	SN->Q (FR)	(CK * D * SE * !SI)	0.10881	0.28961	0.70297
	SN->Q (FR)	(CK * D * !SE * SI)	0.10881	0.28961	0.70297
	SN->Q (FR)	(CK * D * !SE * !SI)	0.10881	0.28961	0.70297
	SN->Q (FR)	(CK * !D * SE * SI)	0.10881	0.28961	0.70297
	SN->Q (FR)	(CK * !D * SE * !SI)	0.10881	0.28961	0.70297
	SN->Q (FR)	(CK * !D * !SE * SI)	0.10881	0.28961	0.70297
	SN->Q (FR)	(CK * !D * !SE * !SI)	0.10881	0.28961	0.70297
	SN->Q (FR)	(!CK * D * SE * SI)	0.10153	0.27254	0.67965
	SN->Q (FR)	(!CK * D * SE * !SI)	0.10386	0.27543	0.68322
	SN->Q (FR)	(!CK * D * !SE * SI)	0.10153	0.27254	0.67974
	SN->Q (FR)	(!CK * D * !SE * !SI)	0.10153	0.27255	0.67984
	SN->Q (FR)	(!CK * !D * SE * SI)	0.10153	0.27254	0.67965
	SN->Q (FR)	(!CK * !D * SE * !SI)	0.10386	0.27543	0.68322
	SN->Q (FR)	(!CK * !D * !SE * SI)	0.10387	0.27543	0.68322
	SN->Q (FR)	(!CK * !D * !SE * !SI)	0.10387	0.27543	0.68322

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFSQX1H7H	CK->Q (RF)	(D * SE * SN)	0.20409	0.39362	0.77912
	CK->Q (RF)	(D * !SE * SI * SN) + (!D * SE * !SI * SN)	0.20409	0.39363	0.77938
	CK->Q (RF)	(!SE * !SI * SN)	0.20412	0.39367	0.77960
	CK->Q (RF)	(!D * SI * SN)	0.20412	0.39366	0.77956

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
SDFFSQX1H7H	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSQX1H7H	**hold**	**CK (R)**	-0.21791	-0.03743	0.13437
	setup	**CK (R)**	-0.07863	0.11008	0.30147

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSQX1H7H	**hold**	**CK (R)**	-0.30589	-0.13224	-0.01096
	setup	**CK (R)**	0.05377	0.21270	0.41082

Constraints(ns) for SE rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSQX1H7H	**hold**	**CK (R)**	-0.17730	-0.02114	0.14145
	setup	**CK (R)**	0.11513	0.25505	0.39965

Constraints(ns) for SE falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSQX1H7H	**hold**	**CK (R)**	-0.23144	-0.06423	0.10467
	setup	**CK (R)**	0.03429	0.18483	0.35817

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSQX1H7H	hold	CK (R)	-0.22161	-0.04244	0.12692
	setup	CK (R)	-0.07361	0.11541	0.30708

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSQX1H7H	hold	CK (R)	-0.36609	-0.17832	-0.05577
	setup	CK (R)	0.09767	0.25984	0.47254

Min Pulse Width (ns) for SN:

Cell Name	High	Low
SDFFSQX1H7H	-	0.9851

Constraints(ns) for SN rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSQX1H7H	recovery	CK (R)	-0.08487	0.08449	0.22675
	removal	CK (R)	0.05648	0.16200	0.33181

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

	CK	**(D * SE * SN)**	0.00343	0.00349	0.00356
	CK	**(D * SE * SN)**	0.00000	0.00000	0.00000
	CK	**(D * SE * SN)**	-0.00003	-0.00001	0.00000
	CK	**(D * SE * SN)**	0.00418	0.00426	0.00433
	CK	**(D * !SE * SI * SN) + (!D * SE * !SI * SN)**	0.00343	0.00349	0.00355
	CK	**(D * !SE * SI * SN) + (!D * SE * !SI * SN)**	0.00000	0.00000	0.00001
	CK	**(D * !SE * SI * SN) + (!D * SE * !SI * SN)**	-0.00003	-0.00001	0.00000
	CK	**(D * !SE * SI * SN) + (!D * SE * !SI * SN)**	0.00420	0.00426	0.00433
	CK	**(!SE * !SI * SN)**	0.00343	0.00349	0.00355
	CK	**(!SE * !SI * SN)**	0.00000	0.00000	0.00002
	CK	**(!SE * !SI * SN)**	-0.00003	-0.00001	0.00000
	CK	**(!SE * !SI * SN)**	0.00420	0.00426	0.00433
	CK	**(!D * SI * SN)**	0.00343	0.00349	0.00356
	CK	**(!D * SI * SN)**	0.00000	0.00000	0.00000
	CK	**(!D * SI * SN)**	-0.00003	-0.00001	0.00000
	CK	**(!D * SI * SN)**	0.00418	0.00426	0.00433
	SN	**(CK * D * SE * SI)**	0.00441	0.00448	0.00455
	SN	**(CK * D * SE * SI)**	-0.00006	-0.00004	-0.00003
	SN	**(CK * D * SE * SI)**	0.00003	0.00004	0.00006
	SN	**(CK * D * SE * SI)**	0.00372	0.00379	0.00385
	SN	**(CK * D * SE * !SI)**	0.00441	0.00448	0.00455
	SN	**(CK * D * SE * !SI)**	-0.00007	-0.00005	-0.00003
	SN	**(CK * D * SE * !SI)**	0.00003	0.00004	0.00006
	SN	**(CK * D * SE * !SI)**	0.00372	0.00379	0.00385
	SN	**(CK * D * !SE * SI)**	0.00441	0.00448	0.00455
	SN	**(CK * D * !SE * SI)**	-0.00007	-0.00004	-0.00003
	SN	**(CK * D * !SE * SI)**	0.00003	0.00004	0.00006
	SN	**(CK * D * !SE * SI)**	0.00372	0.00379	0.00385
	SN	**(CK * D * !SE * !SI)**	0.00440	0.00448	0.00455
	SN	**(CK * D * !SE * !SI)**	-0.00007	-0.00004	-0.00002
	SN	**(CK * D * !SE * !SI)**	0.00003	0.00004	0.00006
	SN	**(CK * D * !SE * !SI)**	0.00372	0.00379	0.00385
	SN	**(CK * !D * SE * SI)**	0.00441	0.00448	0.00455
	SN	**(CK * !D * SE * SI)**	-0.00006	-0.00004	-0.00003
	SN	**(CK * !D * SE * SI)**	0.00003	0.00004	0.00006
	SN	**(CK * !D * SE * SI)**	0.00372	0.00379	0.00385
	SN	**(CK * !D * SE * !SI)**	0.00441	0.00448	0.00455
	SN	**(CK * !D * SE * !SI)**	-0.00007	-0.00004	-0.00002
SDFFSQX1H7H	**SN**	**(CK * !D * SE * !SI)**	0.00003	0.00004	0.00006
	SN	**(CK * !D * SE * !SI)**	0.00372	0.00379	0.00385
	SN	**(CK * !D * !SE * SI)**	0.00441	0.00448	0.00455
	SN	**(CK * !D * !SE * SI)**	-0.00007	-0.00004	-0.00003
	SN	**(CK * !D * !SE * SI)**	0.00001	0.00004	0.00006
	SN	**(CK * !D * !SE * SI)**	0.00372	0.00379	0.00385
	SN	**(CK * !D * !SE * !SI)**	0.00441	0.00448	0.00455
	SN	**(CK * !D * !SE * !SI)**	-0.00007	-0.00004	-0.00003
	SN	**(CK * !D * !SE * !SI)**	0.00001	0.00004	0.00006
	SN	**(CK * !D * !SE * !SI)**	0.00372	0.00379	0.00385
	SN	**(!CK * D * SE * SI)**	0.00294	0.00301	0.00309
	SN	**(!CK * D * SE * SI)**	-0.00002	0.00002	0.00017
	SN	**(!CK * D * SE * SI)**	-0.00005	-0.00004	-0.00003
	SN	**(!CK * D * SE * SI)**	0.00238	0.00246	0.00257
	SN	**(!CK * D * SE * !SI)**	0.00298	0.00304	0.00311
	SN	**(!CK * D * SE * !SI)**	0.00002	0.00003	0.00003
	SN	**(!CK * D * SE * !SI)**	-0.00005	-0.00004	-0.00004
	SN	**(!CK * D * SE * !SI)**	0.00244	0.00250	0.00257
	SN	**(!CK * D * !SE * SI)**	0.00294	0.00301	0.00309
	SN	**(!CK * D * !SE * SI)**	-0.00002	0.00002	0.00017
	SN	**(!CK * D * !SE * SI)**	-0.00005	-0.00004	-0.00003
	SN	**(!CK * D * !SE * SI)**	0.00238	0.00246	0.00257
	SN	**(!CK * D * !SE * !SI)**	0.00294	0.00301	0.00309
	SN	**(!CK * D * !SE * !SI)**	-0.00002	0.00002	0.00017
	SN	**(!CK * D * !SE * !SI)**	-0.00005	-0.00004	-0.00003
	SN	**(!CK * D * !SE * !SI)**	0.00238	0.00246	0.00257
	SN	**(!CK * !D * SE * SI)**	0.00294	0.00301	0.00309
	SN	**(!CK * !D * SE * SI)**	-0.00002	0.00002	0.00017
	SN	**(!CK * !D * SE * SI)**	-0.00005	-0.00004	-0.00003
	SN	**(!CK * !D * SE * SI)**	0.00238	0.00246	0.00257
	SN	**(!CK * !D * SE * !SI)**	0.00298	0.00304	0.00311
	SN	**(!CK * !D * SE * !SI)**	0.00002	0.00003	0.00003
	SN	**(!CK * !D * SE * !SI)**	-0.00005	-0.00004	-0.00004
	SN	**(!CK * !D * SE * !SI)**	0.00244	0.00250	0.00257
	SN	**(!CK * !D * !SE * SI)**	0.00298	0.00304	0.00311
	SN	**(!CK * !D * !SE * SI)**	0.00002	0.00003	0.00003
	SN	**(!CK * !D * !SE * SI)**	-0.00005	-0.00004	-0.00004
	SN	**(!CK * !D * !SE * SI)**	0.00244	0.00250	0.00257
	SN	**(!CK * !D * !SE * !SI)**	0.00298	0.00304	0.00311
	SN	**(!CK * !D * !SE * !SI)**	0.00002	0.00003	0.00003
	SN	**(!CK * !D * !SE * !SI)**	-0.00005	-0.00004	-0.00004
	SN	**(!CK * !D * !SE * !SI)**	0.00244	0.00250	0.00257

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFSQX1H7H	CK	(D * SE * SN)	0.00350	0.00360	0.00370
	CK	(D * SE * SN)	0.00000	0.00000	0.00000
	CK	(D * SE * SN)	0.00000	0.00001	0.00003
	CK	(D * SE * SN)	0.00413	0.00424	0.00435
	CK	(D * !SE * SI * SN) + (!D * SE * !SI * SN)	0.00350	0.00360	0.00370
	CK	(D * !SE * SI * SN) + (!D * SE * !SI * SN)	-0.00001	-0.00000	0.00000
	CK	(D * !SE * SI * SN) + (!D * SE * !SI * SN)	0.00000	0.00002	0.00003
	CK	(D * !SE * SI * SN) + (!D * SE * !SI * SN)	0.00413	0.00424	0.00435
	CK	(!SE * !SI * SN)	0.00350	0.00360	0.00370
	CK	(!SE * !SI * SN)	-0.00002	-0.00000	0.00000
	CK	(!SE * !SI * SN)	0.00000	0.00001	0.00003
	CK	(!SE * !SI * SN)	0.00413	0.00424	0.00433
	CK	(!D * SI * SN)	0.00350	0.00360	0.00369
	CK	(!D * SI * SN)	0.00000	0.00000	0.00000
	CK	(!D * SI * SN)	0.00000	0.00001	0.00003
	CK	(!D * SI * SN)	0.00414	0.00424	0.00434

Passive power(pJ) for CK rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFSQX1H7H	**(D * SE * SI * SN)**	0.00152	0.00155	0.00159
	(D * SE * SI * SN)	0.00000	0.00000	0.00000
	(D * SE * SI * SN)	-0.00001	-0.00000	0.00000
	(D * SE * SI * SN)	0.00221	0.00225	0.00229
	(D * SE * SI * !SN)	0.00148	0.00152	0.00156
	(D * SE * SI * !SN)	-0.00000	0.00000	0.00000
	(D * SE * SI * !SN)	-0.00000	0.00000	0.00001
	(D * SE * SI * !SN)	0.00218	0.00222	0.00226
	(D * SE * !SI * SN)	0.00163	0.00166	0.00171
	(D * SE * !SI * SN)	-0.00001	-0.00000	0.00000
	(D * SE * !SI * SN)	0.00000	0.00000	0.00000
	(D * SE * !SI * SN)	0.00234	0.00238	0.00241
	(D * SE * !SI * !SN)	0.00301	0.00306	0.00312
	(D * SE * !SI * !SN)	-0.00005	-0.00005	-0.00005
	(D * SE * !SI * !SN)	0.00003	0.00004	0.00004
	(D * SE * !SI * !SN)	0.00362	0.00367	0.00373
	(D * !SE * SI * SN)	0.00152	0.00155	0.00160
	(D * !SE * SI * SN)	0.00000	0.00000	0.00000
	(D * !SE * SI * SN)	-0.00000	-0.00000	0.00000
	(D * !SE * SI * SN)	0.00221	0.00225	0.00229
	(D * !SE * SI * !SN)	0.00148	0.00152	0.00156
	(D * !SE * SI * !SN)	-0.00001	0.00000	0.00001
	(D * !SE * SI * !SN)	-0.00001	-0.00000	0.00000
	(D * !SE * SI * !SN)	0.00218	0.00222	0.00226
	(D * !SE * !SI * SN)	0.00152	0.00155	0.00160
	(D * !SE * !SI * SN)	0.00000	0.00000	0.00000
	(D * !SE * !SI * SN)	-0.00000	-0.00000	0.00000
	(D * !SE * !SI * SN)	0.00221	0.00225	0.00229
	(D * !SE * !SI * !SN)	0.00148	0.00152	0.00156
	(D * !SE * !SI * !SN)	-0.00001	-0.00000	0.00001
	(D * !SE * !SI * !SN)	-0.00001	-0.00000	0.00000
	(D * !SE * !SI * !SN)	0.00218	0.00222	0.00226
	(!D * SE * SI * SN)	0.00152	0.00155	0.00159
	(!D * SE * SI * SN)	0.00000	0.00000	0.00000
	(!D * SE * SI * SN)	-0.00001	-0.00000	0.00000
	(!D * SE * SI * SN)	0.00221	0.00225	0.00229
	(!D * SE * SI * !SN)	0.00148	0.00152	0.00156
	(!D * SE * SI * !SN)	-0.00000	0.00000	0.00000
	(!D * SE * SI * !SN)	-0.00000	0.00000	0.00001
	(!D * SE * SI * !SN)	0.00218	0.00222	0.00226
	(!D * SE * !SI * SN)	0.00163	0.00166	0.00171
	(!D * SE * !SI * SN)	-0.00001	-0.00000	0.00000
	(!D * SE * !SI * SN)	0.00000	0.00000	0.00000
	(!D * SE * !SI * SN)	0.00234	0.00238	0.00241
	(!D * SE * !SI * !SN)	0.00301	0.00306	0.00312
	(!D * SE * !SI * !SN)	-0.00005	-0.00005	-0.00005
	(!D * SE * !SI * !SN)	0.00003	0.00004	0.00004
	(!D * SE * !SI * !SN)	0.00362	0.00367	0.00373
	(!D * !SE * SI * SN)	0.00163	0.00166	0.00170
	(!D * !SE * SI * SN)	-0.00001	-0.00000	0.00001
	(!D * !SE * SI * SN)	0.00000	0.00000	0.00000
	(!D * !SE * SI * SN)	0.00234	0.00238	0.00242
	(!D * !SE * SI * !SN)	0.00301	0.00306	0.00311
	(!D * !SE * SI * !SN)	-0.00006	-0.00005	-0.00003
	(!D * !SE * SI * !SN)	0.00004	0.00004	0.00004
	(!D * !SE * SI * !SN)	0.00362	0.00367	0.00373
	(!D * !SE * !SI * SN)	0.00163	0.00166	0.00170
	(!D * !SE * !SI * SN)	-0.00001	-0.00000	0.00001
	(!D * !SE * !SI * SN)	0.00000	0.00000	0.00000
	(!D * !SE * !SI * SN)	0.00234	0.00238	0.00242
	(!D * !SE * !SI * !SN)	0.00301	0.00306	0.00311
	(!D * !SE * !SI * !SN)	-0.00006	-0.00005	-0.00004
	(!D * !SE * !SI * !SN)	0.00004	0.00004	0.00005
	(!D * !SE * !SI * !SN)	0.00362	0.00367	0.00372

Passive power(pJ) for CK falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFSQX1H7H	**(D * SE * SI * SN)**	0.00414	0.00420	0.00426
	(D * SE * SI * SN)	0.00000	0.00000	0.00000
	(D * SE * SI * SN)	0.00006	0.00007	0.00008
	(D * SE * SI * SN)	0.00333	0.00340	0.00345
	(D * SE * SI * !SN)	0.00256	0.00260	0.00264
	(D * SE * SI * !SN)	-0.00000	-0.00000	0.00000
	(D * SE * SI * !SN)	-0.00000	0.00000	0.00001
	(D * SE * SI * !SN)	0.00186	0.00189	0.00195
	(D * SE * !SI * SN)	0.00368	0.00374	0.00380
	(D * SE * !SI * SN)	0.00005	0.00006	0.00006
	(D * SE * !SI * SN)	0.00000	0.00000	0.00000
	(D * SE * !SI * SN)	0.00308	0.00314	0.00321
	(D * SE * !SI * !SN)	0.00266	0.00272	0.00278
	(D * SE * !SI * !SN)	0.00011	0.00011	0.00011
	(D * SE * !SI * !SN)	-0.00004	-0.00004	-0.00003
	(D * SE * !SI * !SN)	0.00217	0.00223	0.00229
	(D * !SE * SI * SN)	0.00414	0.00421	0.00427
	(D * !SE * SI * SN)	0.00000	0.00000	0.00000
	(D * !SE * SI * SN)	0.00006	0.00006	0.00007
	(D * !SE * SI * SN)	0.00333	0.00340	0.00346
	(D * !SE * SI * !SN)	0.00256	0.00260	0.00265
	(D * !SE * SI * !SN)	-0.00000	0.00000	0.00001
	(D * !SE * SI * !SN)	-0.00000	0.00000	0.00001
	(D * !SE * SI * !SN)	0.00186	0.00190	0.00194
	(D * !SE * !SI * SN)	0.00414	0.00420	0.00427
	(D * !SE * !SI * SN)	0.00000	0.00000	0.00000
	(D * !SE * !SI * SN)	0.00006	0.00006	0.00007
	(D * !SE * !SI * SN)	0.00333	0.00340	0.00346
	(D * !SE * !SI * !SN)	0.00256	0.00260	0.00265
	(D * !SE * !SI * !SN)	-0.00000	0.00000	0.00001
	(D * !SE * !SI * !SN)	-0.00000	0.00000	0.00001
	(D * !SE * !SI * !SN)	0.00186	0.00190	0.00194
	(!D * SE * SI * SN)	0.00414	0.00420	0.00427
	(!D * SE * SI * SN)	0.00000	0.00000	0.00000
	(!D * SE * SI * SN)	0.00006	0.00007	0.00008
	(!D * SE * SI * SN)	0.00333	0.00340	0.00345
	(!D * SE * SI * !SN)	0.00256	0.00260	0.00265
	(!D * SE * SI * !SN)	-0.00000	-0.00000	0.00000
	(!D * SE * SI * !SN)	-0.00000	0.00000	0.00001
	(!D * SE * SI * !SN)	0.00186	0.00190	0.00195
	(!D * SE * !SI * SN)	0.00368	0.00374	0.00381
	(!D * SE * !SI * SN)	0.00005	0.00006	0.00006
	(!D * SE * !SI * SN)	0.00000	0.00000	0.00000
	(!D * SE * !SI * SN)	0.00308	0.00314	0.00320
	(!D * SE * !SI * !SN)	0.00266	0.00272	0.00278
	(!D * SE * !SI * !SN)	0.00011	0.00011	0.00011
	(!D * SE * !SI * !SN)	-0.00004	-0.00004	-0.00003
	(!D * SE * !SI * !SN)	0.00217	0.00223	0.00229
	(!D * !SE * SI * SN)	0.00368	0.00374	0.00381
	(!D * !SE * SI * SN)	0.00005	0.00006	0.00007
	(!D * !SE * SI * SN)	0.00000	0.00000	0.00000
	(!D * !SE * SI * SN)	0.00308	0.00314	0.00321
	(!D * !SE * SI * !SN)	0.00266	0.00272	0.00278
	(!D * !SE * SI * !SN)	0.00010	0.00011	0.00012
	(!D * !SE * SI * !SN)	-0.00004	-0.00004	-0.00004
	(!D * !SE * SI * !SN)	0.00217	0.00223	0.00230
	(!D * !SE * !SI * SN)	0.00368	0.00374	0.00381
	(!D * !SE * !SI * SN)	0.00005	0.00006	0.00007
	(!D * !SE * !SI * SN)	0.00000	0.00000	0.00000
	(!D * !SE * !SI * SN)	0.00308	0.00314	0.00321
	(!D * !SE * !SI * !SN)	0.00266	0.00272	0.00278
	(!D * !SE * !SI * !SN)	0.00010	0.00011	0.00012
	(!D * !SE * !SI * !SN)	-0.00005	-0.00004	-0.00004
	(!D * !SE * !SI * !SN)	0.00217	0.00223	0.00230

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFSQX1H7H	**(CK * SE * SI * SN)**	-0.00011	-0.00010	-0.00009
	(CK * SE * SI * SN)	-0.00002	-0.00002	-0.00002
	(CK * SE * SI * SN)	0.00001	0.00002	0.00002
	(CK * SE * SI * SN)	0.00026	0.00026	0.00027
	(CK * SE * SI * !SN)	-0.00011	-0.00010	-0.00009
	(CK * SE * SI * !SN)	-0.00002	-0.00002	-0.00002
	(CK * SE * SI * !SN)	0.00001	0.00002	0.00002
	(CK * SE * SI * !SN)	0.00026	0.00026	0.00027
	(CK * SE * !SI * SN)	-0.00011	-0.00010	-0.00009
	(CK * SE * !SI * SN)	-0.00003	-0.00002	-0.00002
	(CK * SE * !SI * SN)	0.00001	0.00001	0.00001
	(CK * SE * !SI * SN)	0.00026	0.00026	0.00027
	(CK * SE * !SI * !SN)	-0.00011	-0.00010	-0.00009
	(CK * SE * !SI * !SN)	-0.00003	-0.00002	-0.00002
	(CK * SE * !SI * !SN)	0.00001	0.00001	0.00001
	(CK * SE * !SI * !SN)	0.00026	0.00026	0.00027
	(CK * !SE * SI * SN)	0.00020	0.00021	0.00023
	(CK * !SE * SI * SN)	0.00013	0.00013	0.00013
	(CK * !SE * SI * SN)	-0.00011	-0.00011	-0.00011
	(CK * !SE * SI * SN)	0.00125	0.00126	0.00127
	(CK * !SE * SI * !SN)	0.00020	0.00021	0.00023
	(CK * !SE * SI * !SN)	0.00013	0.00013	0.00013
	(CK * !SE * SI * !SN)	-0.00012	-0.00011	-0.00010
	(CK * !SE * SI * !SN)	0.00125	0.00126	0.00128
	(CK * !SE * !SI * SN)	0.00020	0.00021	0.00023
	(CK * !SE * !SI * SN)	0.00012	0.00013	0.00013
	(CK * !SE * !SI * SN)	-0.00011	-0.00011	-0.00010
	(CK * !SE * !SI * SN)	0.00125	0.00126	0.00127
	(CK * !SE * !SI * !SN)	0.00020	0.00021	0.00023
	(CK * !SE * !SI * !SN)	0.00013	0.00013	0.00013
	(CK * !SE * !SI * !SN)	-0.00011	-0.00011	-0.00011
	(CK * !SE * !SI * !SN)	0.00125	0.00127	0.00128
	(!CK * SE * SI * SN)	-0.00011	-0.00010	-0.00009
	(!CK * SE * SI * SN)	-0.00002	-0.00002	-0.00002
	(!CK * SE * SI * SN)	0.00001	0.00002	0.00002
	(!CK * SE * SI * SN)	0.00026	0.00026	0.00027
	(!CK * SE * SI * !SN)	-0.00011	-0.00010	-0.00009
	(!CK * SE * SI * !SN)	-0.00002	-0.00002	-0.00002
	(!CK * SE * SI * !SN)	0.00001	0.00002	0.00002
	(!CK * SE * SI * !SN)	0.00026	0.00026	0.00027
	(!CK * SE * !SI * SN)	-0.00011	-0.00010	-0.00009
	(!CK * SE * !SI * SN)	-0.00003	-0.00002	-0.00002
	(!CK * SE * !SI * SN)	0.00001	0.00001	0.00001
	(!CK * SE * !SI * SN)	0.00026	0.00026	0.00027
	(!CK * SE * !SI * !SN)	-0.00011	-0.00010	-0.00009
	(!CK * SE * !SI * !SN)	-0.00003	-0.00002	-0.00002
	(!CK * SE * !SI * !SN)	0.00001	0.00001	0.00001
	(!CK * SE * !SI * !SN)	0.00026	0.00026	0.00027
	(!CK * !SE * SI * SN)	0.00192	0.00194	0.00196
	(!CK * !SE * SI * SN)	0.00007	0.00008	0.00008
	(!CK * !SE * SI * SN)	-0.00006	-0.00006	-0.00005
	(!CK * !SE * SI * SN)	0.00286	0.00289	0.00290
	(!CK * !SE * SI * !SN)	0.00199	0.00200	0.00201
	(!CK * !SE * SI * !SN)	0.00007	0.00008	0.00009
	(!CK * !SE * SI * !SN)	0.00000	0.00000	0.00000
	(!CK * !SE * SI * !SN)	0.00293	0.00295	0.00297
	(!CK * !SE * !SI * SN)	0.00192	0.00194	0.00196
	(!CK * !SE * !SI * SN)	0.00007	0.00008	0.00008
	(!CK * !SE * !SI * SN)	-0.00007	-0.00006	-0.00005
	(!CK * !SE * !SI * SN)	0.00286	0.00289	0.00290
	(!CK * !SE * !SI * !SN)	0.00201	0.00202	0.00205
	(!CK * !SE * !SI * !SN)	0.00004	0.00005	0.00006
	(!CK * !SE * !SI * !SN)	0.00000	0.00000	0.00000
	(!CK * !SE * !SI * !SN)	0.00293	0.00295	0.00296

Passive power(pJ) for D falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFSQX1H7H	**(CK * SE * SI * SN)**	0.00011	0.00011	0.00011
	(CK * SE * SI * SN)	0.00002	0.00002	0.00002
	(CK * SE * SI * SN)	-0.00002	-0.00002	-0.00001
	(CK * SE * SI * SN)	-0.00026	-0.00026	-0.00024
	(CK * SE * SI * !SN)	0.00011	0.00011	0.00011
	(CK * SE * SI * !SN)	0.00002	0.00002	0.00002
	(CK * SE * SI * !SN)	-0.00002	-0.00002	-0.00001
	(CK * SE * SI * !SN)	-0.00026	-0.00026	-0.00024
	(CK * SE * !SI * SN)	0.00011	0.00011	0.00012
	(CK * SE * !SI * SN)	0.00002	0.00003	0.00003
	(CK * SE * !SI * SN)	-0.00001	-0.00001	-0.00001
	(CK * SE * !SI * SN)	-0.00026	-0.00026	-0.00024
	(CK * SE * !SI * !SN)	0.00011	0.00011	0.00012
	(CK * SE * !SI * !SN)	0.00002	0.00003	0.00003
	(CK * SE * !SI * !SN)	-0.00001	-0.00001	-0.00001
	(CK * SE * !SI * !SN)	-0.00026	-0.00026	-0.00024
	(CK * !SE * SI * SN)	0.00140	0.00141	0.00143
	(CK * !SE * SI * SN)	-0.00013	-0.00013	-0.00013
	(CK * !SE * SI * SN)	0.00011	0.00011	0.00012
	(CK * !SE * SI * SN)	0.00034	0.00035	0.00037
	(CK * !SE * SI * !SN)	0.00140	0.00141	0.00143
	(CK * !SE * SI * !SN)	-0.00013	-0.00013	-0.00013
	(CK * !SE * SI * !SN)	0.00010	0.00011	0.00012
	(CK * !SE * SI * !SN)	0.00034	0.00035	0.00036
	(CK * !SE * !SI * SN)	0.00140	0.00141	0.00142
	(CK * !SE * !SI * SN)	-0.00013	-0.00013	-0.00012
	(CK * !SE * !SI * SN)	0.00010	0.00011	0.00012
	(CK * !SE * !SI * SN)	0.00034	0.00035	0.00037
	(CK * !SE * !SI * !SN)	0.00140	0.00141	0.00143
	(CK * !SE * !SI * !SN)	-0.00013	-0.00013	-0.00013
	(CK * !SE * !SI * !SN)	0.00011	0.00011	0.00011
	(CK * !SE * !SI * !SN)	0.00034	0.00035	0.00036
	(!CK * SE * SI * SN)	0.00011	0.00011	0.00011
	(!CK * SE * SI * SN)	0.00002	0.00002	0.00002
	(!CK * SE * SI * SN)	-0.00002	-0.00002	-0.00001
	(!CK * SE * SI * SN)	-0.00026	-0.00026	-0.00024
	(!CK * SE * SI * !SN)	0.00011	0.00011	0.00011
	(!CK * SE * SI * !SN)	0.00002	0.00002	0.00002
	(!CK * SE * SI * !SN)	-0.00002	-0.00002	-0.00001
	(!CK * SE * SI * !SN)	-0.00026	-0.00026	-0.00024
	(!CK * SE * !SI * SN)	0.00011	0.00011	0.00012
	(!CK * SE * !SI * SN)	0.00002	0.00003	0.00003
	(!CK * SE * !SI * SN)	-0.00001	-0.00001	-0.00001
	(!CK * SE * !SI * SN)	-0.00026	-0.00026	-0.00024
	(!CK * SE * !SI * !SN)	0.00011	0.00011	0.00012
	(!CK * SE * !SI * !SN)	0.00002	0.00003	0.00003
	(!CK * SE * !SI * !SN)	-0.00001	-0.00001	-0.00001
	(!CK * SE * !SI * !SN)	-0.00026	-0.00026	-0.00024
	(!CK * !SE * SI * SN)	0.00264	0.00266	0.00267
	(!CK * !SE * SI * SN)	-0.00008	-0.00008	-0.00007
	(!CK * !SE * SI * SN)	0.00005	0.00006	0.00006
	(!CK * !SE * SI * SN)	0.00169	0.00170	0.00172
	(!CK * !SE * SI * !SN)	0.00173	0.00174	0.00176
	(!CK * !SE * SI * !SN)	-0.00001	-0.00000	0.00001
	(!CK * !SE * SI * !SN)	0.00000	0.00000	0.00000
	(!CK * !SE * SI * !SN)	0.00094	0.00096	0.00098
	(!CK * !SE * !SI * SN)	0.00264	0.00266	0.00268
	(!CK * !SE * !SI * SN)	-0.00008	-0.00008	-0.00007
	(!CK * !SE * !SI * SN)	0.00005	0.00006	0.00007
	(!CK * !SE * !SI * SN)	0.00169	0.00170	0.00171
	(!CK * !SE * !SI * !SN)	0.00173	0.00174	0.00176
	(!CK * !SE * !SI * !SN)	-0.00000	0.00000	0.00001
	(!CK * !SE * !SI * !SN)	0.00000	0.00000	0.00000
	(!CK * !SE * !SI * !SN)	0.00094	0.00096	0.00098

Passive power(pJ) for SE rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFSQX1H7H	**(CK * D * SI * SN)**	-0.00015	-0.00013	-0.00009
	(CK * D * SI * SN)	0.00001	0.00001	0.00001
	(CK * D * SI * SN)	-0.00003	-0.00002	-0.00001
	(CK * D * SI * SN)	0.00109	0.00111	0.00113
	(CK * D * SI * !SN)	-0.00015	-0.00013	-0.00009
	(CK * D * SI * !SN)	0.00001	0.00001	0.00001
	(CK * D * SI * !SN)	-0.00002	-0.00002	-0.00001
	(CK * D * SI * !SN)	0.00109	0.00111	0.00113
	(CK * D * !SI * SN)	0.00120	0.00125	0.00130
	(CK * D * !SI * SN)	-0.00009	-0.00009	-0.00006
	(CK * D * !SI * SN)	0.00007	0.00007	0.00008
	(CK * D * !SI * SN)	0.00193	0.00197	0.00202
	(CK * D * !SI * !SN)	0.00120	0.00125	0.00130
	(CK * D * !SI * !SN)	-0.00009	-0.00009	-0.00008
	(CK * D * !SI * !SN)	0.00006	0.00007	0.00008
	(CK * D * !SI * !SN)	0.00193	0.00198	0.00203
	(CK * !D * SI * SN)	-0.00018	-0.00014	-0.00008
	(CK * !D * SI * SN)	0.00012	0.00012	0.00012
	(CK * !D * SI * SN)	-0.00012	-0.00012	-0.00011
	(CK * !D * SI * SN)	0.00159	0.00164	0.00172
	(CK * !D * SI * !SN)	-0.00018	-0.00014	-0.00007
	(CK * !D * SI * !SN)	0.00012	0.00012	0.00013
	(CK * !D * SI * !SN)	-0.00012	-0.00012	-0.00010
	(CK * !D * SI * !SN)	0.00159	0.00163	0.00168
	(CK * !D * !SI * SN)	-0.00014	-0.00011	-0.00007
	(CK * !D * !SI * SN)	0.00001	0.00002	0.00003
	(CK * !D * !SI * SN)	-0.00003	-0.00003	-0.00002
	(CK * !D * !SI * SN)	0.00112	0.00114	0.00118
	(CK * !D * !SI * !SN)	-0.00014	-0.00011	-0.00008
	(CK * !D * !SI * !SN)	0.00001	0.00002	0.00003
	(CK * !D * !SI * !SN)	-0.00003	-0.00003	-0.00002
	(CK * !D * !SI * !SN)	0.00112	0.00114	0.00120
	(!CK * D * SI * SN)	-0.00015	-0.00013	-0.00008
	(!CK * D * SI * SN)	0.00000	0.00001	0.00001
	(!CK * D * SI * SN)	-0.00002	-0.00002	-0.00001
	(!CK * D * SI * SN)	0.00109	0.00111	0.00113
	(!CK * D * SI * !SN)	-0.00015	-0.00013	-0.00009
	(!CK * D * SI * !SN)	0.00001	0.00001	0.00002
	(!CK * D * SI * !SN)	-0.00002	-0.00002	-0.00001
	(!CK * D * SI * !SN)	0.00109	0.00111	0.00113
	(!CK * D * !SI * SN)	0.00245	0.00250	0.00256
	(!CK * D * !SI * SN)	-0.00004	-0.00004	-0.00004
	(!CK * D * !SI * SN)	0.00001	0.00002	0.00003
	(!CK * D * !SI * SN)	0.00327	0.00332	0.00337
	(!CK * D * !SI * !SN)	0.00153	0.00158	0.00164
	(!CK * D * !SI * !SN)	0.00004	0.00004	0.00005
	(!CK * D * !SI * !SN)	0.00000	0.00000	0.00000
	(!CK * D * !SI * !SN)	0.00253	0.00258	0.00263
	(!CK * !D * SI * SN)	0.00154	0.00158	0.00165
	(!CK * !D * SI * SN)	0.00007	0.00007	0.00008
	(!CK * !D * SI * SN)	-0.00008	-0.00007	-0.00006
	(!CK * !D * SI * SN)	0.00321	0.00327	0.00334
	(!CK * !D * SI * !SN)	0.00163	0.00168	0.00174
	(!CK * !D * SI * !SN)	0.00007	0.00007	0.00007
	(!CK * !D * SI * !SN)	-0.00000	-0.00000	0.00000
	(!CK * !D * SI * !SN)	0.00332	0.00337	0.00344
	(!CK * !D * !SI * SN)	-0.00014	-0.00011	-0.00007
	(!CK * !D * !SI * SN)	0.00002	0.00002	0.00004
	(!CK * !D * !SI * SN)	-0.00003	-0.00003	-0.00002
	(!CK * !D * !SI * SN)	0.00112	0.00114	0.00118
	(!CK * !D * !SI * !SN)	-0.00014	-0.00011	-0.00007
	(!CK * !D * !SI * !SN)	0.00002	0.00002	0.00003
	(!CK * !D * !SI * !SN)	-0.00003	-0.00003	-0.00003
	(!CK * !D * !SI * !SN)	0.00112	0.00114	0.00118

Passive power(pJ) for SE falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFSQX1H7H	**(CK * D * SI * SN)**	0.00107	0.00110	0.00113
	(CK * D * SI * SN)	-0.00001	-0.00001	-0.00000
	(CK * D * SI * SN)	0.00002	0.00003	0.00003
	(CK * D * SI * SN)	-0.00017	-0.00014	-0.00010
	(CK * D * SI * !SN)	0.00107	0.00110	0.00113
	(CK * D * SI * !SN)	-0.00001	-0.00001	-0.00000
	(CK * D * SI * !SN)	0.00002	0.00002	0.00003
	(CK * D * SI * !SN)	-0.00017	-0.00014	-0.00010
	(CK * D * !SI * SN)	0.00146	0.00148	0.00151
	(CK * D * !SI * SN)	0.00006	0.00009	0.00010
	(CK * D * !SI * SN)	-0.00008	-0.00007	-0.00007
	(CK * D * !SI * SN)	0.00073	0.00075	0.00077
	(CK * D * !SI * !SN)	0.00146	0.00148	0.00151
	(CK * D * !SI * !SN)	0.00008	0.00009	0.00009
	(CK * D * !SI * !SN)	-0.00007	-0.00006	-0.00006
	(CK * D * !SI * !SN)	0.00073	0.00075	0.00079
	(CK * !D * SI * SN)	0.00196	0.00200	0.00207
	(CK * !D * SI * SN)	-0.00012	-0.00012	-0.00012
	(CK * !D * SI * SN)	0.00011	0.00012	0.00013
	(CK * !D * SI * SN)	0.00018	0.00022	0.00029
	(CK * !D * SI * !SN)	0.00196	0.00200	0.00205
	(CK * !D * SI * !SN)	-0.00012	-0.00012	-0.00012
	(CK * !D * SI * !SN)	0.00011	0.00012	0.00013
	(CK * !D * SI * !SN)	0.00018	0.00023	0.00030
	(CK * !D * !SI * SN)	0.00103	0.00106	0.00110
	(CK * !D * !SI * SN)	-0.00003	-0.00002	-0.00001
	(CK * !D * !SI * SN)	0.00002	0.00003	0.00003
	(CK * !D * !SI * SN)	-0.00023	-0.00020	-0.00016
	(CK * !D * !SI * !SN)	0.00103	0.00106	0.00110
	(CK * !D * !SI * !SN)	-0.00002	-0.00002	-0.00001
	(CK * !D * !SI * !SN)	0.00002	0.00003	0.00003
	(CK * !D * !SI * !SN)	-0.00023	-0.00020	-0.00016
	(!CK * D * SI * SN)	0.00107	0.00110	0.00113
	(!CK * D * SI * SN)	-0.00001	-0.00001	-0.00000
	(!CK * D * SI * SN)	0.00002	0.00003	0.00003
	(!CK * D * SI * SN)	-0.00017	-0.00014	-0.00009
	(!CK * D * SI * !SN)	0.00107	0.00110	0.00113
	(!CK * D * SI * !SN)	-0.00001	-0.00001	-0.00001
	(!CK * D * SI * !SN)	0.00002	0.00002	0.00003
	(!CK * D * SI * !SN)	-0.00017	-0.00014	-0.00009
	(!CK * D * !SI * SN)	0.00319	0.00320	0.00323
	(!CK * D * !SI * SN)	0.00004	0.00004	0.00004
	(!CK * D * !SI * SN)	-0.00003	-0.00002	-0.00001
	(!CK * D * !SI * SN)	0.00236	0.00238	0.00242
	(!CK * D * !SI * !SN)	0.00322	0.00325	0.00330
	(!CK * D * !SI * !SN)	0.00005	0.00006	0.00006
	(!CK * D * !SI * !SN)	0.00000	0.00000	0.00000
	(!CK * D * !SI * !SN)	0.00245	0.00249	0.00254
	(!CK * !D * SI * SN)	0.00321	0.00326	0.00332
	(!CK * !D * SI * SN)	-0.00008	-0.00007	-0.00007
	(!CK * !D * SI * SN)	0.00006	0.00007	0.00008
	(!CK * !D * SI * SN)	0.00153	0.00157	0.00163
	(!CK * !D * SI * !SN)	0.00229	0.00234	0.00242
	(!CK * !D * SI * !SN)	-0.00000	0.00001	0.00003
	(!CK * !D * SI * !SN)	0.00000	0.00000	0.00000
	(!CK * !D * SI * !SN)	0.00078	0.00083	0.00091
	(!CK * !D * !SI * SN)	0.00103	0.00106	0.00110
	(!CK * !D * !SI * SN)	-0.00003	-0.00002	-0.00001
	(!CK * !D * !SI * SN)	0.00003	0.00003	0.00003
	(!CK * !D * !SI * SN)	-0.00023	-0.00020	-0.00016
	(!CK * !D * !SI * !SN)	0.00103	0.00106	0.00110
	(!CK * !D * !SI * !SN)	-0.00003	-0.00002	-0.00001
	(!CK * !D * !SI * !SN)	0.00003	0.00003	0.00003
	(!CK * !D * !SI * !SN)	-0.00023	-0.00020	-0.00016

Passive power(pJ) for SI rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFSQX1H7H	**(CK * D * SE * SN)**	0.00001	0.00002	0.00004
	(CK * D * SE * SN)	0.00011	0.00011	0.00011
	(CK * D * SE * SN)	-0.00011	-0.00010	-0.00010
	(CK * D * SE * SN)	0.00103	0.00105	0.00108
	(CK * D * SE * !SN)	0.00000	0.00002	0.00004
	(CK * D * SE * !SN)	0.00011	0.00011	0.00011
	(CK * D * SE * !SN)	-0.00010	-0.00010	-0.00009
	(CK * D * SE * !SN)	0.00103	0.00105	0.00109
	(CK * D * !SE * SN)	-0.00012	-0.00011	-0.00010
	(CK * D * !SE * SN)	-0.00002	-0.00002	-0.00001
	(CK * D * !SE * SN)	0.00001	0.00001	0.00002
	(CK * D * !SE * SN)	0.00028	0.00028	0.00029
	(CK * D * !SE * !SN)	-0.00012	-0.00011	-0.00010
	(CK * D * !SE * !SN)	-0.00002	-0.00002	-0.00001
	(CK * D * !SE * !SN)	0.00001	0.00001	0.00002
	(CK * D * !SE * !SN)	0.00028	0.00028	0.00029
	(CK * !D * SE * SN)	0.00001	0.00002	0.00004
	(CK * !D * SE * SN)	0.00010	0.00011	0.00011
	(CK * !D * SE * SN)	-0.00011	-0.00010	-0.00010
	(CK * !D * SE * SN)	0.00103	0.00105	0.00107
	(CK * !D * SE * !SN)	0.00000	0.00002	0.00004
	(CK * !D * SE * !SN)	0.00011	0.00011	0.00011
	(CK * !D * SE * !SN)	-0.00010	-0.00010	-0.00010
	(CK * !D * SE * !SN)	0.00103	0.00105	0.00107
	(CK * !D * !SE * SN)	-0.00018	-0.00017	-0.00017
	(CK * !D * !SE * SN)	-0.00002	-0.00002	-0.00002
	(CK * !D * !SE * SN)	0.00001	0.00001	0.00001
	(CK * !D * !SE * SN)	0.00021	0.00022	0.00023
	(CK * !D * !SE * !SN)	-0.00018	-0.00017	-0.00017
	(CK * !D * !SE * !SN)	-0.00002	-0.00002	-0.00002
	(CK * !D * !SE * !SN)	0.00001	0.00001	0.00001
	(CK * !D * !SE * !SN)	0.00021	0.00022	0.00023
	(!CK * D * SE * SN)	0.00171	0.00174	0.00177
	(!CK * D * SE * SN)	0.00006	0.00006	0.00007
	(!CK * D * SE * SN)	-0.00006	-0.00005	-0.00005
	(!CK * D * SE * SN)	0.00265	0.00267	0.00269
	(!CK * D * SE * !SN)	0.00179	0.00181	0.00184
	(!CK * D * SE * !SN)	0.00005	0.00006	0.00006
	(!CK * D * SE * !SN)	0.00000	0.00000	0.00000
	(!CK * D * SE * !SN)	0.00271	0.00274	0.00276
	(!CK * D * !SE * SN)	-0.00012	-0.00011	-0.00011
	(!CK * D * !SE * SN)	-0.00002	-0.00002	-0.00002
	(!CK * D * !SE * SN)	0.00001	0.00001	0.00001
	(!CK * D * !SE * SN)	0.00028	0.00028	0.00029
	(!CK * D * !SE * !SN)	-0.00012	-0.00011	-0.00011
	(!CK * D * !SE * !SN)	-0.00002	-0.00002	-0.00002
	(!CK * D * !SE * !SN)	0.00001	0.00001	0.00002
	(!CK * D * !SE * !SN)	0.00028	0.00028	0.00029
	(!CK * !D * SE * SN)	0.00171	0.00174	0.00176
	(!CK * !D * SE * SN)	0.00006	0.00006	0.00007
	(!CK * !D * SE * SN)	-0.00005	-0.00005	-0.00004
	(!CK * !D * SE * SN)	0.00265	0.00268	0.00270
	(!CK * !D * SE * !SN)	0.00181	0.00183	0.00185
	(!CK * !D * SE * !SN)	0.00003	0.00004	0.00004
	(!CK * !D * SE * !SN)	0.00000	0.00000	0.00000
	(!CK * !D * SE * !SN)	0.00271	0.00274	0.00275
	(!CK * !D * !SE * SN)	-0.00018	-0.00017	-0.00017
	(!CK * !D * !SE * SN)	-0.00002	-0.00002	-0.00002
	(!CK * !D * !SE * SN)	0.00001	0.00001	0.00002
	(!CK * !D * !SE * SN)	0.00021	0.00022	0.00022
	(!CK * !D * !SE * !SN)	-0.00018	-0.00017	-0.00017
	(!CK * !D * !SE * !SN)	-0.00002	-0.00002	-0.00002
	(!CK * !D * !SE * !SN)	0.00001	0.00001	0.00002
	(!CK * !D * !SE * !SN)	0.00021	0.00022	0.00022

Passive power(pJ) for SI falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFSQX1H7H	**(CK * D * SE * SN)**	0.00151	0.00154	0.00156
	(CK * D * SE * SN)	-0.00011	-0.00011	-0.00011
	(CK * D * SE * SN)	0.00010	0.00010	0.00011
	(CK * D * SE * SN)	0.00049	0.00051	0.00055
	(CK * D * SE * !SN)	0.00151	0.00154	0.00157
	(CK * D * SE * !SN)	-0.00011	-0.00011	-0.00011
	(CK * D * SE * !SN)	0.00009	0.00010	0.00010
	(CK * D * SE * !SN)	0.00049	0.00051	0.00054
	(CK * D * !SE * SN)	0.00012	0.00012	0.00012
	(CK * D * !SE * SN)	0.00001	0.00002	0.00002
	(CK * D * !SE * SN)	-0.00002	-0.00001	-0.00001
	(CK * D * !SE * SN)	-0.00028	-0.00027	-0.00026
	(CK * D * !SE * !SN)	0.00012	0.00012	0.00012
	(CK * D * !SE * !SN)	0.00001	0.00002	0.00002
	(CK * D * !SE * !SN)	-0.00002	-0.00001	-0.00001
	(CK * D * !SE * !SN)	-0.00028	-0.00027	-0.00026
	(CK * !D * SE * SN)	0.00151	0.00154	0.00156
	(CK * !D * SE * SN)	-0.00011	-0.00011	-0.00010
	(CK * !D * SE * SN)	0.00010	0.00010	0.00011
	(CK * !D * SE * SN)	0.00049	0.00051	0.00055
	(CK * !D * SE * !SN)	0.00151	0.00154	0.00156
	(CK * !D * SE * !SN)	-0.00011	-0.00011	-0.00011
	(CK * !D * SE * !SN)	0.00010	0.00010	0.00012
	(CK * !D * SE * !SN)	0.00049	0.00051	0.00054
	(CK * !D * !SE * SN)	0.00018	0.00018	0.00019
	(CK * !D * !SE * SN)	0.00002	0.00002	0.00002
	(CK * !D * !SE * SN)	-0.00001	-0.00001	-0.00001
	(CK * !D * !SE * SN)	-0.00022	-0.00021	-0.00020
	(CK * !D * !SE * !SN)	0.00018	0.00018	0.00019
	(CK * !D * !SE * !SN)	0.00002	0.00002	0.00002
	(CK * !D * !SE * !SN)	-0.00001	-0.00001	-0.00001
	(CK * !D * !SE * !SN)	-0.00022	-0.00021	-0.00020
	(!CK * D * SE * SN)	0.00275	0.00278	0.00281
	(!CK * D * SE * SN)	-0.00006	-0.00006	-0.00006
	(!CK * D * SE * SN)	0.00005	0.00005	0.00006
	(!CK * D * SE * SN)	0.00182	0.00186	0.00190
	(!CK * D * SE * !SN)	0.00184	0.00187	0.00191
	(!CK * D * SE * !SN)	0.00001	0.00002	0.00003
	(!CK * D * SE * !SN)	0.00000	0.00000	0.00000
	(!CK * D * SE * !SN)	0.00109	0.00111	0.00114
	(!CK * D * !SE * SN)	0.00012	0.00012	0.00012
	(!CK * D * !SE * SN)	0.00002	0.00002	0.00002
	(!CK * D * !SE * SN)	-0.00001	-0.00001	-0.00001
	(!CK * D * !SE * SN)	-0.00028	-0.00027	-0.00026
	(!CK * D * !SE * !SN)	0.00012	0.00012	0.00012
	(!CK * D * !SE * !SN)	0.00002	0.00002	0.00002
	(!CK * D * !SE * !SN)	-0.00002	-0.00001	-0.00001
	(!CK * D * !SE * !SN)	-0.00028	-0.00027	-0.00026
	(!CK * !D * SE * SN)	0.00276	0.00279	0.00282
	(!CK * !D * SE * SN)	-0.00007	-0.00006	-0.00006
	(!CK * !D * SE * SN)	0.00004	0.00005	0.00005
	(!CK * !D * SE * SN)	0.00183	0.00186	0.00189
	(!CK * !D * SE * !SN)	0.00184	0.00187	0.00191
	(!CK * !D * SE * !SN)	0.00001	0.00002	0.00003
	(!CK * !D * SE * !SN)	0.00000	0.00000	0.00000
	(!CK * !D * SE * !SN)	0.00109	0.00111	0.00114
	(!CK * !D * !SE * SN)	0.00018	0.00018	0.00019
	(!CK * !D * !SE * SN)	0.00002	0.00002	0.00002
	(!CK * !D * !SE * SN)	-0.00002	-0.00001	-0.00001
	(!CK * !D * !SE * SN)	-0.00022	-0.00021	-0.00019
	(!CK * !D * !SE * !SN)	0.00018	0.00018	0.00019
	(!CK * !D * !SE * !SN)	0.00002	0.00002	0.00002
	(!CK * !D * !SE * !SN)	-0.00002	-0.00001	-0.00001
	(!CK * !D * !SE * !SN)	-0.00022	-0.00021	-0.00019

Passive power(pJ) for SN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFSQX1H7H	**(CK * D * SE * SI)**	-0.00002	0.00000	0.00002
	(CK * D * SE * SI)	0.00003	0.00004	0.00005
	(CK * D * SE * SI)	-0.00003	-0.00003	-0.00002
	(CK * D * SE * SI)	0.00069	0.00071	0.00073
	(CK * D * SE * !SI)	-0.00002	0.00000	0.00002
	(CK * D * SE * !SI)	0.00003	0.00004	0.00005
	(CK * D * SE * !SI)	-0.00003	-0.00003	-0.00002
	(CK * D * SE * !SI)	0.00069	0.00071	0.00073
	(CK * D * !SE * SI)	-0.00002	0.00000	0.00002
	(CK * D * !SE * SI)	0.00003	0.00004	0.00005
	(CK * D * !SE * SI)	-0.00003	-0.00003	-0.00002
	(CK * D * !SE * SI)	0.00069	0.00071	0.00073
	(CK * D * !SE * !SI)	-0.00002	0.00000	0.00002
	(CK * D * !SE * !SI)	0.00003	0.00004	0.00005
	(CK * D * !SE * !SI)	-0.00003	-0.00003	-0.00002
	(CK * D * !SE * !SI)	0.00069	0.00071	0.00073
	(CK * !D * SE * SI)	-0.00002	0.00000	0.00002
	(CK * !D * SE * SI)	0.00003	0.00004	0.00005
	(CK * !D * SE * SI)	-0.00003	-0.00003	-0.00002
	(CK * !D * SE * SI)	0.00069	0.00071	0.00073
	(CK * !D * SE * !SI)	-0.00002	0.00000	0.00002
	(CK * !D * SE * !SI)	0.00003	0.00004	0.00005
	(CK * !D * SE * !SI)	-0.00003	-0.00003	-0.00002
	(CK * !D * SE * !SI)	0.00069	0.00071	0.00073
	(CK * !D * !SE * SI)	-0.00002	0.00000	0.00002
	(CK * !D * !SE * SI)	0.00003	0.00004	0.00005
	(CK * !D * !SE * SI)	-0.00003	-0.00003	-0.00002
	(CK * !D * !SE * SI)	0.00069	0.00071	0.00073
	(CK * !D * !SE * !SI)	-0.00002	0.00000	0.00002
	(CK * !D * !SE * !SI)	0.00003	0.00004	0.00005
	(CK * !D * !SE * !SI)	-0.00003	-0.00003	-0.00002
	(CK * !D * !SE * !SI)	0.00069	0.00071	0.00073
	(!CK * D * SE * SI)	-0.00001	0.00001	0.00003
	(!CK * D * SE * SI)	0.00004	0.00004	0.00004
	(!CK * D * SE * SI)	-0.00003	-0.00003	-0.00002
	(!CK * D * SE * SI)	0.00069	0.00071	0.00073
	(!CK * D * SE * !SI)	0.00097	0.00099	0.00101
	(!CK * D * SE * !SI)	0.00000	0.00000	0.00000
	(!CK * D * SE * !SI)	0.00001	0.00001	0.00001
	(!CK * D * SE * !SI)	0.00151	0.00153	0.00155
	(!CK * D * !SE * SI)	-0.00001	0.00001	0.00003
	(!CK * D * !SE * SI)	0.00004	0.00004	0.00004
	(!CK * D * !SE * SI)	-0.00003	-0.00003	-0.00002
	(!CK * D * !SE * SI)	0.00069	0.00071	0.00073
	(!CK * D * !SE * !SI)	-0.00001	0.00001	0.00003
	(!CK * D * !SE * !SI)	0.00004	0.00004	0.00004
	(!CK * D * !SE * !SI)	-0.00003	-0.00003	-0.00002
	(!CK * D * !SE * !SI)	0.00069	0.00071	0.00073
	(!CK * !D * SE * SI)	-0.00001	0.00001	0.00003
	(!CK * !D * SE * SI)	0.00004	0.00004	0.00004
	(!CK * !D * SE * SI)	-0.00003	-0.00003	-0.00002
	(!CK * !D * SE * SI)	0.00069	0.00071	0.00073
	(!CK * !D * SE * !SI)	0.00097	0.00099	0.00101
	(!CK * !D * SE * !SI)	0.00000	0.00000	0.00000
	(!CK * !D * SE * !SI)	0.00001	0.00001	0.00001
	(!CK * !D * SE * !SI)	0.00151	0.00153	0.00155
	(!CK * !D * !SE * SI)	0.00097	0.00099	0.00103
	(!CK * !D * !SE * SI)	0.00000	0.00000	0.00000
	(!CK * !D * !SE * SI)	0.00001	0.00001	0.00001
	(!CK * !D * !SE * SI)	0.00151	0.00153	0.00155
	(!CK * !D * !SE * !SI)	0.00097	0.00099	0.00103
	(!CK * !D * !SE * !SI)	0.00000	0.00000	0.00000
	(!CK * !D * !SE * !SI)	0.00001	0.00001	0.00001
	(!CK * !D * !SE * !SI)	0.00151	0.00153	0.00155

Passive power(pJ) for SN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

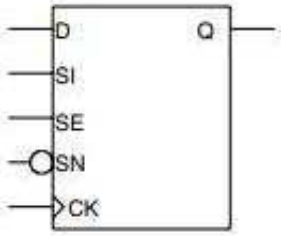
SDFFSQX1H7H	**(CK * D * SE * SI)**	0.00079	0.00081	0.00084
	(CK * D * SE * SI)	-0.00004	-0.00004	-0.00003
	(CK * D * SE * SI)	0.00002	0.00003	0.00003
	(CK * D * SE * SI)	0.00009	0.00011	0.00014
	(CK * D * SE * !SI)	0.00079	0.00081	0.00084
	(CK * D * SE * !SI)	-0.00004	-0.00004	-0.00003
	(CK * D * SE * !SI)	0.00002	0.00003	0.00003
	(CK * D * SE * !SI)	0.00009	0.00011	0.00014
	(CK * D * !SE * SI)	0.00079	0.00081	0.00084
	(CK * D * !SE * SI)	-0.00004	-0.00004	-0.00003
	(CK * D * !SE * SI)	0.00002	0.00003	0.00003
	(CK * D * !SE * SI)	0.00009	0.00011	0.00014
	(CK * D * !SE * !SI)	0.00079	0.00081	0.00084
	(CK * D * !SE * !SI)	-0.00004	-0.00004	-0.00003
	(CK * D * !SE * !SI)	0.00002	0.00003	0.00003
	(CK * D * !SE * !SI)	0.00009	0.00011	0.00014
	(CK * !D * SE * SI)	0.00079	0.00081	0.00084
	(CK * !D * SE * SI)	-0.00004	-0.00004	-0.00003
	(CK * !D * SE * SI)	0.00002	0.00003	0.00003
	(CK * !D * SE * SI)	0.00009	0.00011	0.00014
	(CK * !D * SE * !SI)	0.00079	0.00081	0.00084
	(CK * !D * SE * !SI)	-0.00004	-0.00004	-0.00003
	(CK * !D * SE * !SI)	0.00002	0.00003	0.00003
	(CK * !D * SE * !SI)	0.00009	0.00011	0.00014
	(CK * !D * !SE * SI)	0.00079	0.00081	0.00084
	(CK * !D * !SE * SI)	-0.00004	-0.00004	-0.00003
	(CK * !D * !SE * SI)	0.00002	0.00003	0.00003
	(CK * !D * !SE * SI)	0.00009	0.00011	0.00014
	(CK * !D * !SE * !SI)	0.00079	0.00081	0.00084
	(CK * !D * !SE * !SI)	-0.00004	-0.00004	-0.00003
	(CK * !D * !SE * !SI)	0.00002	0.00003	0.00003
	(CK * !D * !SE * !SI)	0.00009	0.00011	0.00014
	(!CK * D * SE * SI)	0.00079	0.00081	0.00084
	(!CK * D * SE * SI)	-0.00004	-0.00004	-0.00004
	(!CK * D * SE * SI)	0.00003	0.00003	0.00003
	(!CK * D * SE * SI)	0.00008	0.00010	0.00013
	(!CK * D * SE * !SI)	0.00080	0.00082	0.00085
	(!CK * D * SE * !SI)	0.00000	0.00000	0.00000
	(!CK * D * SE * !SI)	0.00001	0.00003	0.00003
	(!CK * D * SE * !SI)	0.00009	0.00012	0.00015
	(!CK * D * !SE * SI)	0.00079	0.00081	0.00084
	(!CK * D * !SE * SI)	-0.00004	-0.00004	-0.00004
	(!CK * D * !SE * SI)	0.00003	0.00003	0.00003
	(!CK * D * !SE * SI)	0.00008	0.00010	0.00013
	(!CK * D * !SE * !SI)	0.00079	0.00081	0.00084
	(!CK * D * !SE * !SI)	-0.00004	-0.00004	-0.00004
	(!CK * D * !SE * !SI)	0.00003	0.00003	0.00003
	(!CK * D * !SE * !SI)	0.00008	0.00010	0.00013
	(!CK * !D * SE * SI)	0.00079	0.00081	0.00084
	(!CK * !D * SE * SI)	-0.00004	-0.00004	-0.00004
	(!CK * !D * SE * SI)	0.00003	0.00003	0.00003
	(!CK * !D * SE * SI)	0.00008	0.00010	0.00013
	(!CK * !D * SE * !SI)	0.00080	0.00082	0.00085
	(!CK * !D * SE * !SI)	0.00000	0.00000	0.00000
	(!CK * !D * SE * !SI)	0.00001	0.00003	0.00003
	(!CK * !D * SE * !SI)	0.00009	0.00012	0.00015
	(!CK * !D * !SE * SI)	0.00080	0.00082	0.00084
	(!CK * !D * !SE * SI)	0.00000	0.00000	0.00000
	(!CK * !D * !SE * SI)	0.00002	0.00003	0.00003
	(!CK * !D * !SE * SI)	0.00009	0.00012	0.00016
	(!CK * !D * !SE * !SI)	0.00080	0.00082	0.00084
	(!CK * !D * !SE * !SI)	0.00000	0.00000	0.00000
	(!CK * !D * !SE * !SI)	0.00002	0.00003	0.00003
	(!CK * !D * !SE * !SI)	0.00009	0.00012	0.00016

SDFFSQX2H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The SDFFSQ cell is a high-speed, positive edge-triggered, static D-type flip-flop with scan input (SI), active-high scan enable (SE), and asynchronous active-low set (SN). The cell has a single output (Q).



Truth Table

INPUT					OUTPUT
CK	**D**	**SE**	**SI**	**SN**	**Q**
R	**0**	**0**	**x**	**1**	**0**
R	**x**	**1**	**0**	**1**	**0**
R	**x**	**1**	**1**	**1**	**1**
R	**1**	**0**	**x**	**1**	**1**
x	**x**	**x**	**x**	**0**	**1**
x	**x**	**x**	**x**	**1**	**IQ**

Footprint

Cell Name	Area
SDFFSQX2H7H	10.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	CK	D	SE	SI	SN	Q
SDFFSQX2H7H	0.00100	0.00082	0.00204	0.00083	0.00091	0.05488

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
SDFFSQX2H7H	0.00000	0.08273	0.08273

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFSQX2H7H	CK->Q (RR)	(D * SE * SN)	0.16955	0.35897	0.80602
	CK->Q (RR)	(D * !SE * SI * SN) + (!D * SE * !SI * SN)	0.16956	0.35897	0.80598
	CK->Q (RR)	(!SE * !SI * SN)	0.16956	0.35898	0.80598
	CK->Q (RR)	(!D * SI * SN)	0.16955	0.35897	0.80602
	SN->Q (FR)	(CK * D * SE * SI)	0.10965	0.29351	0.71159
	SN->Q (FR)	(CK * D * SE * !SI)	0.10965	0.29351	0.71159
	SN->Q (FR)	(CK * D * !SE * SI)	0.10965	0.29351	0.71159
	SN->Q (FR)	(CK * D * !SE * !SI)	0.10965	0.29351	0.71159
	SN->Q (FR)	(CK * !D * SE * SI)	0.10965	0.29351	0.71159
	SN->Q (FR)	(CK * !D * SE * !SI)	0.10965	0.29351	0.71159
	SN->Q (FR)	(CK * !D * !SE * SI)	0.10965	0.29351	0.71159
	SN->Q (FR)	(CK * !D * !SE * !SI)	0.10965	0.29351	0.71159
	SN->Q (FR)	(!CK * D * SE * SI)	0.10245	0.27598	0.68758
	SN->Q (FR)	(!CK * D * SE * !SI)	0.10478	0.27894	0.69096
	SN->Q (FR)	(!CK * D * !SE * SI)	0.10245	0.27598	0.68758
	SN->Q (FR)	(!CK * D * !SE * !SI)	0.10245	0.27598	0.68758
	SN->Q (FR)	(!CK * !D * SE * SI)	0.10245	0.27598	0.68758
	SN->Q (FR)	(!CK * !D * SE * !SI)	0.10478	0.27894	0.69096
	SN->Q (FR)	(!CK * !D * !SE * SI)	0.10478	0.27894	0.69096
	SN->Q (FR)	(!CK * !D * !SE * !SI)	0.10478	0.27894	0.69096

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFSQX2H7H	CK->Q (RF)	(D * SE * SN)	0.20634	0.40045	0.78918
	CK->Q (RF)	(D * !SE * SI * SN) + (!D * SE * !SI * SN)	0.20632	0.40044	0.78918
	CK->Q (RF)	(!SE * !SI * SN)	0.20635	0.40049	0.78959
	CK->Q (RF)	(!D * SI * SN)	0.20635	0.40050	0.78953

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
SDFFSQX2H7H	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSQX2H7H	**hold**	**CK (R)**	-0.21706	-0.03809	0.12994
	setup	**CK (R)**	-0.07635	0.10941	0.29960

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSQX2H7H	**hold**	**CK (R)**	-0.30690	-0.13414	-0.01234
	setup	**CK (R)**	0.05652	0.21733	0.41626

Constraints(ns) for SE rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSQX2H7H	**hold**	**CK (R)**	-0.17877	-0.02353	0.14062
	setup	**CK (R)**	0.12510	0.26517	0.40728

Constraints(ns) for SE falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSQX2H7H	**hold**	**CK (R)**	-0.22931	-0.06348	0.10581
	setup	**CK (R)**	0.03881	0.19033	0.36073

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSQX2H7H	hold	CK (R)	-0.22401	-0.04385	0.12756
	setup	CK (R)	-0.07162	0.11625	0.30811

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSQX2H7H	hold	CK (R)	-0.37147	-0.18556	-0.06183
	setup	CK (R)	0.10901	0.27003	0.48238

Min Pulse Width (ns) for SN:

Cell Name	High	Low
SDFFSQX2H7H	-	0.9851

Constraints(ns) for SN rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSQX2H7H	recovery	CK (R)	-0.07895	0.08755	0.23305
	removal	CK (R)	0.05530	0.16016	0.32943

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

	CK	**(D * SE * SN)**	0.00352	0.00359	0.00367
	CK	**(D * SE * SN)**	-0.00000	-0.00000	0.00000
	CK	**(D * SE * SN)**	-0.00002	-0.00000	0.00000
	CK	**(D * SE * SN)**	0.00424	0.00433	0.00440
	CK	**(D * !SE * SI * SN) + (!D * SE * !SI * SN)**	0.00352	0.00359	0.00367
	CK	**(D * !SE * SI * SN) + (!D * SE * !SI * SN)**	-0.00000	-0.00000	0.00000
	CK	**(D * !SE * SI * SN) + (!D * SE * !SI * SN)**	-0.00002	-0.00000	0.00000
	CK	**(D * !SE * SI * SN) + (!D * SE * !SI * SN)**	0.00425	0.00433	0.00440
	CK	**(!SE * !SI * SN)**	0.00352	0.00359	0.00367
	CK	**(!SE * !SI * SN)**	0.00000	0.00000	0.00000
	CK	**(!SE * !SI * SN)**	-0.00001	-0.00000	0.00000
	CK	**(!SE * !SI * SN)**	0.00425	0.00433	0.00440
	CK	**(!D * SI * SN)**	0.00352	0.00359	0.00367
	CK	**(!D * SI * SN)**	0.00000	0.00000	0.00000
	CK	**(!D * SI * SN)**	-0.00001	-0.00000	0.00000
	CK	**(!D * SI * SN)**	0.00424	0.00433	0.00440
	SN	**(CK * D * SE * SI)**	0.00458	0.00466	0.00473
	SN	**(CK * D * SE * SI)**	-0.00009	-0.00006	-0.00002
	SN	**(CK * D * SE * SI)**	0.00001	0.00004	0.00007
	SN	**(CK * D * SE * SI)**	0.00385	0.00394	0.00402
	SN	**(CK * D * SE * !SI)**	0.00458	0.00466	0.00474
	SN	**(CK * D * SE * !SI)**	-0.00009	-0.00006	-0.00003
	SN	**(CK * D * SE * !SI)**	0.00000	0.00004	0.00007
	SN	**(CK * D * SE * !SI)**	0.00385	0.00394	0.00402
	SN	**(CK * D * !SE * SI)**	0.00458	0.00466	0.00473
	SN	**(CK * D * !SE * SI)**	-0.00009	-0.00006	-0.00002
	SN	**(CK * D * !SE * SI)**	0.00001	0.00004	0.00007
	SN	**(CK * D * !SE * SI)**	0.00385	0.00393	0.00402
	SN	**(CK * D * !SE * !SI)**	0.00458	0.00466	0.00473
	SN	**(CK * D * !SE * !SI)**	-0.00009	-0.00006	-0.00002
	SN	**(CK * D * !SE * !SI)**	0.00001	0.00004	0.00007
	SN	**(CK * D * !SE * !SI)**	0.00385	0.00393	0.00402
	SN	**(CK * !D * SE * SI)**	0.00458	0.00466	0.00473
	SN	**(CK * !D * SE * SI)**	-0.00009	-0.00006	-0.00002
	SN	**(CK * !D * SE * SI)**	0.00001	0.00004	0.00007
	SN	**(CK * !D * SE * SI)**	0.00385	0.00394	0.00402
	SN	**(CK * !D * SE * !SI)**	0.00458	0.00466	0.00474
	SN	**(CK * !D * SE * !SI)**	-0.00010	-0.00006	-0.00005
SDFFSQX2H7H	**SN**	**(CK * !D * SE * !SI)**	0.00000	0.00004	0.00007
	SN	**(CK * !D * SE * !SI)**	0.00385	0.00394	0.00402
	SN	**(CK * !D * !SE * SI)**	0.00458	0.00466	0.00474
	SN	**(CK * !D * !SE * SI)**	-0.00010	-0.00006	-0.00002
	SN	**(CK * !D * !SE * SI)**	0.00001	0.00004	0.00008
	SN	**(CK * !D * !SE * SI)**	0.00386	0.00394	0.00402
	SN	**(CK * !D * !SE * !SI)**	0.00458	0.00466	0.00474
	SN	**(CK * !D * !SE * !SI)**	-0.00010	-0.00006	-0.00002
	SN	**(CK * !D * !SE * !SI)**	0.00001	0.00004	0.00008
	SN	**(CK * !D * !SE * !SI)**	0.00386	0.00394	0.00402
	SN	**(!CK * D * SE * SI)**	0.00309	0.00317	0.00326
	SN	**(!CK * D * SE * SI)**	-0.00001	0.00001	0.00016
	SN	**(!CK * D * SE * SI)**	-0.00006	-0.00003	-0.00001
	SN	**(!CK * D * SE * SI)**	0.00250	0.00258	0.00271
	SN	**(!CK * D * SE * !SI)**	0.00313	0.00320	0.00328
	SN	**(!CK * D * SE * !SI)**	0.00000	0.00001	0.00002
	SN	**(!CK * D * SE * !SI)**	-0.00006	-0.00003	0.00001
	SN	**(!CK * D * SE * !SI)**	0.00253	0.00262	0.00270
	SN	**(!CK * D * !SE * SI)**	0.00309	0.00317	0.00326
	SN	**(!CK * D * !SE * SI)**	-0.00001	0.00001	0.00016
	SN	**(!CK * D * !SE * SI)**	-0.00006	-0.00003	-0.00001
	SN	**(!CK * D * !SE * SI)**	0.00250	0.00258	0.00270
	SN	**(!CK * D * !SE * !SI)**	0.00309	0.00317	0.00326
	SN	**(!CK * D * !SE * !SI)**	-0.00001	0.00001	0.00016
	SN	**(!CK * D * !SE * !SI)**	-0.00006	-0.00003	-0.00001
	SN	**(!CK * D * !SE * !SI)**	0.00250	0.00258	0.00270
	SN	**(!CK * !D * SE * SI)**	0.00309	0.00317	0.00326
	SN	**(!CK * !D * SE * SI)**	-0.00001	0.00001	0.00016
	SN	**(!CK * !D * SE * SI)**	-0.00006	-0.00003	-0.00001
	SN	**(!CK * !D * SE * SI)**	0.00250	0.00258	0.00271
	SN	**(!CK * !D * SE * !SI)**	0.00313	0.00320	0.00328
	SN	**(!CK * !D * SE * !SI)**	0.00000	0.00001	0.00002
	SN	**(!CK * !D * SE * !SI)**	-0.00006	-0.00003	0.00001
	SN	**(!CK * !D * SE * !SI)**	0.00253	0.00262	0.00270
	SN	**(!CK * !D * !SE * SI)**	0.00313	0.00320	0.00328
	SN	**(!CK * !D * !SE * SI)**	0.00000	0.00001	0.00002
	SN	**(!CK * !D * !SE * SI)**	-0.00007	-0.00003	-0.00000
	SN	**(!CK * !D * !SE * SI)**	0.00253	0.00262	0.00270
	SN	**(!CK * !D * !SE * !SI)**	0.00313	0.00320	0.00328
	SN	**(!CK * !D * !SE * !SI)**	0.00000	0.00001	0.00002
	SN	**(!CK * !D * !SE * !SI)**	-0.00007	-0.00003	-0.00000
	SN	**(!CK * !D * !SE * !SI)**	0.00253	0.00262	0.00270

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFSQX2H7H	CK	(D * SE * SN)	0.00358	0.00369	0.00379
	CK	(D * SE * SN)	0.00000	0.00000	0.00000
	CK	(D * SE * SN)	0.00000	0.00000	0.00002
	CK	(D * SE * SN)	0.00424	0.00434	0.00445
	CK	(D * !SE * SI * SN) + (!D * SE * !SI * SN)	0.00358	0.00369	0.00379
	CK	(D * !SE * SI * SN) + (!D * SE * !SI * SN)	0.00000	0.00000	0.00000
	CK	(D * !SE * SI * SN) + (!D * SE * !SI * SN)	0.00000	0.00000	0.00002
	CK	(D * !SE * SI * SN) + (!D * SE * !SI * SN)	0.00423	0.00434	0.00445
	CK	(!SE * !SI * SN)	0.00358	0.00369	0.00379
	CK	(!SE * !SI * SN)	0.00000	0.00000	0.00000
	CK	(!SE * !SI * SN)	0.00000	0.00000	0.00001
	CK	(!SE * !SI * SN)	0.00423	0.00434	0.00445
	CK	(!D * SI * SN)	0.00358	0.00369	0.00379
	CK	(!D * SI * SN)	0.00000	0.00000	0.00000
	CK	(!D * SI * SN)	0.00000	0.00000	0.00001
	CK	(!D * SI * SN)	0.00424	0.00434	0.00445

Passive power(pJ) for CK rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFSQX2H7H	**(D * SE * SI * SN)**	0.00150	0.00154	0.00157
	(D * SE * SI * SN)	0.00000	0.00000	0.00000
	(D * SE * SI * SN)	-0.00000	0.00001	0.00001
	(D * SE * SI * SN)	0.00218	0.00222	0.00226
	(D * SE * SI * !SN)	0.00146	0.00150	0.00154
	(D * SE * SI * !SN)	-0.00000	-0.00000	0.00000
	(D * SE * SI * !SN)	0.00000	0.00001	0.00001
	(D * SE * SI * !SN)	0.00216	0.00219	0.00223
	(D * SE * !SI * SN)	0.00160	0.00164	0.00168
	(D * SE * !SI * SN)	-0.00001	-0.00000	0.00000
	(D * SE * !SI * SN)	0.00000	0.00000	0.00000
	(D * SE * !SI * SN)	0.00232	0.00235	0.00239
	(D * SE * !SI * !SN)	0.00302	0.00307	0.00312
	(D * SE * !SI * !SN)	-0.00005	-0.00005	-0.00004
	(D * SE * !SI * !SN)	0.00003	0.00004	0.00005
	(D * SE * !SI * !SN)	0.00363	0.00368	0.00373
	(D * !SE * SI * SN)	0.00150	0.00154	0.00157
	(D * !SE * SI * SN)	0.00000	0.00000	0.00000
	(D * !SE * SI * SN)	-0.00000	0.00000	0.00001
	(D * !SE * SI * SN)	0.00218	0.00222	0.00227
	(D * !SE * SI * !SN)	0.00146	0.00150	0.00154
	(D * !SE * SI * !SN)	-0.00000	0.00000	0.00000
	(D * !SE * SI * !SN)	-0.00001	0.00000	0.00001
	(D * !SE * SI * !SN)	0.00216	0.00219	0.00224
	(D * !SE * !SI * SN)	0.00150	0.00154	0.00157
	(D * !SE * !SI * SN)	0.00000	0.00000	0.00000
	(D * !SE * !SI * SN)	-0.00000	0.00000	0.00001
	(D * !SE * !SI * SN)	0.00218	0.00222	0.00227
	(D * !SE * !SI * !SN)	0.00146	0.00150	0.00154
	(D * !SE * !SI * !SN)	-0.00000	0.00000	0.00000
	(D * !SE * !SI * !SN)	-0.00001	0.00000	0.00001
	(D * !SE * !SI * !SN)	0.00216	0.00219	0.00224
	(!D * SE * SI * SN)	0.00150	0.00154	0.00157
	(!D * SE * SI * SN)	0.00000	0.00000	0.00000
	(!D * SE * SI * SN)	-0.00000	0.00001	0.00001
	(!D * SE * SI * SN)	0.00218	0.00222	0.00226
	(!D * SE * SI * !SN)	0.00146	0.00150	0.00154
	(!D * SE * SI * !SN)	-0.00001	-0.00000	0.00000
	(!D * SE * SI * !SN)	0.00000	0.00001	0.00001
	(!D * SE * SI * !SN)	0.00216	0.00219	0.00223
	(!D * SE * !SI * SN)	0.00160	0.00164	0.00168
	(!D * SE * !SI * SN)	-0.00001	-0.00000	-0.00000
	(!D * SE * !SI * SN)	0.00000	0.00000	0.00000
	(!D * SE * !SI * SN)	0.00232	0.00235	0.00240
	(!D * SE * !SI * !SN)	0.00302	0.00307	0.00312
	(!D * SE * !SI * !SN)	-0.00005	-0.00005	-0.00004
	(!D * SE * !SI * !SN)	0.00003	0.00004	0.00005
	(!D * SE * !SI * !SN)	0.00363	0.00368	0.00373
	(!D * !SE * SI * SN)	0.00160	0.00164	0.00169
	(!D * !SE * SI * SN)	-0.00001	-0.00000	-0.00000
	(!D * !SE * SI * SN)	0.00000	0.00000	0.00000
	(!D * !SE * SI * SN)	0.00231	0.00235	0.00239
	(!D * !SE * SI * !SN)	0.00302	0.00307	0.00313
	(!D * !SE * SI * !SN)	-0.00006	-0.00005	-0.00004
	(!D * !SE * SI * !SN)	0.00003	0.00004	0.00004
	(!D * !SE * SI * !SN)	0.00363	0.00368	0.00373
	(!D * !SE * !SI * SN)	0.00160	0.00164	0.00169
	(!D * !SE * !SI * SN)	-0.00001	-0.00000	-0.00000
	(!D * !SE * !SI * SN)	0.00000	0.00000	0.00000
	(!D * !SE * !SI * SN)	0.00231	0.00235	0.00239
	(!D * !SE * !SI * !SN)	0.00302	0.00307	0.00313
	(!D * !SE * !SI * !SN)	-0.00006	-0.00005	-0.00004
	(!D * !SE * !SI * !SN)	0.00003	0.00004	0.00004
	(!D * !SE * !SI * !SN)	0.00363	0.00368	0.00373

Passive power(pJ) for CK falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFSQX2H7H	**(D * SE * SI * SN)**	0.00410	0.00416	0.00423
	(D * SE * SI * SN)	0.00000	0.00000	0.00000
	(D * SE * SI * SN)	0.00004	0.00004	0.00005
	(D * SE * SI * SN)	0.00332	0.00338	0.00344
	(D * SE * SI * !SN)	0.00253	0.00257	0.00262
	(D * SE * SI * !SN)	-0.00000	0.00000	0.00000
	(D * SE * SI * !SN)	-0.00001	-0.00000	0.00001
	(D * SE * SI * !SN)	0.00183	0.00187	0.00191
	(D * SE * !SI * SN)	0.00366	0.00372	0.00379
	(D * SE * !SI * SN)	0.00005	0.00006	0.00006
	(D * SE * !SI * SN)	0.00000	0.00000	0.00000
	(D * SE * !SI * SN)	0.00305	0.00311	0.00318
	(D * SE * !SI * !SN)	0.00263	0.00268	0.00274
	(D * SE * !SI * !SN)	0.00011	0.00011	0.00011
	(D * SE * !SI * !SN)	-0.00005	-0.00004	-0.00003
	(D * SE * !SI * !SN)	0.00214	0.00219	0.00226
	(D * !SE * SI * SN)	0.00410	0.00417	0.00422
	(D * !SE * SI * SN)	0.00000	0.00000	0.00000
	(D * !SE * SI * SN)	0.00004	0.00005	0.00006
	(D * !SE * SI * SN)	0.00332	0.00338	0.00344
	(D * !SE * SI * !SN)	0.00253	0.00257	0.00262
	(D * !SE * SI * !SN)	-0.00000	0.00000	0.00000
	(D * !SE * SI * !SN)	-0.00000	0.00000	0.00001
	(D * !SE * SI * !SN)	0.00183	0.00187	0.00192
	(D * !SE * !SI * SN)	0.00410	0.00417	0.00422
	(D * !SE * !SI * SN)	0.00000	0.00000	0.00000
	(D * !SE * !SI * SN)	0.00004	0.00005	0.00006
	(D * !SE * !SI * SN)	0.00332	0.00338	0.00344
	(D * !SE * !SI * !SN)	0.00253	0.00257	0.00262
	(D * !SE * !SI * !SN)	-0.00000	0.00000	0.00000
	(D * !SE * !SI * !SN)	-0.00000	0.00000	0.00001
	(D * !SE * !SI * !SN)	0.00183	0.00187	0.00192
	(!D * SE * SI * SN)	0.00410	0.00416	0.00422
	(!D * SE * SI * SN)	0.00000	0.00000	0.00000
	(!D * SE * SI * SN)	0.00004	0.00004	0.00005
	(!D * SE * SI * SN)	0.00332	0.00338	0.00344
	(!D * SE * SI * !SN)	0.00253	0.00257	0.00262
	(!D * SE * SI * !SN)	-0.00000	0.00000	0.00001
	(!D * SE * SI * !SN)	-0.00001	-0.00000	0.00001
	(!D * SE * SI * !SN)	0.00183	0.00187	0.00192
	(!D * SE * !SI * SN)	0.00366	0.00372	0.00378
	(!D * SE * !SI * SN)	0.00005	0.00006	0.00006
	(!D * SE * !SI * SN)	0.00000	0.00000	0.00000
	(!D * SE * !SI * SN)	0.00305	0.00312	0.00319
	(!D * SE * !SI * !SN)	0.00263	0.00268	0.00274
	(!D * SE * !SI * !SN)	0.00011	0.00011	0.00011
	(!D * SE * !SI * !SN)	-0.00005	-0.00004	-0.00003
	(!D * SE * !SI * !SN)	0.00214	0.00219	0.00226
	(!D * !SE * SI * SN)	0.00366	0.00372	0.00379
	(!D * !SE * SI * SN)	0.00005	0.00005	0.00006
	(!D * !SE * SI * SN)	0.00000	0.00000	0.00000
	(!D * !SE * SI * SN)	0.00305	0.00312	0.00318
	(!D * !SE * SI * !SN)	0.00263	0.00268	0.00274
	(!D * !SE * SI * !SN)	0.00011	0.00011	0.00012
	(!D * !SE * SI * !SN)	-0.00004	-0.00004	-0.00003
	(!D * !SE * SI * !SN)	0.00214	0.00219	0.00225
	(!D * !SE * !SI * SN)	0.00366	0.00372	0.00379
	(!D * !SE * !SI * SN)	0.00005	0.00005	0.00006
	(!D * !SE * !SI * SN)	0.00000	0.00000	0.00000
	(!D * !SE * !SI * SN)	0.00305	0.00312	0.00318
	(!D * !SE * !SI * !SN)	0.00263	0.00268	0.00274
	(!D * !SE * !SI * !SN)	0.00011	0.00011	0.00012
	(!D * !SE * !SI * !SN)	-0.00004	-0.00004	-0.00003
	(!D * !SE * !SI * !SN)	0.00214	0.00219	0.00225

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFSQX2H7H	**(CK * SE * SI * SN)**	-0.00012	-0.00011	-0.00009
	(CK * SE * SI * SN)	-0.00003	-0.00003	-0.00002
	(CK * SE * SI * SN)	0.00002	0.00002	0.00002
	(CK * SE * SI * SN)	0.00026	0.00026	0.00027
	(CK * SE * SI * !SN)	-0.00012	-0.00011	-0.00009
	(CK * SE * SI * !SN)	-0.00003	-0.00003	-0.00002
	(CK * SE * SI * !SN)	0.00002	0.00002	0.00002
	(CK * SE * SI * !SN)	0.00026	0.00026	0.00027
	(CK * SE * !SI * SN)	-0.00012	-0.00011	-0.00009
	(CK * SE * !SI * SN)	-0.00003	-0.00003	-0.00003
	(CK * SE * !SI * SN)	0.00001	0.00001	0.00002
	(CK * SE * !SI * SN)	0.00026	0.00026	0.00026
	(CK * SE * !SI * !SN)	-0.00012	-0.00011	-0.00009
	(CK * SE * !SI * !SN)	-0.00003	-0.00003	-0.00003
	(CK * SE * !SI * !SN)	0.00001	0.00002	0.00002
	(CK * SE * !SI * !SN)	0.00026	0.00026	0.00026
	(CK * !SE * SI * SN)	0.00020	0.00021	0.00023
	(CK * !SE * SI * SN)	0.00013	0.00014	0.00014
	(CK * !SE * SI * SN)	-0.00012	-0.00011	-0.00011
	(CK * !SE * SI * SN)	0.00129	0.00131	0.00134
	(CK * !SE * SI * !SN)	0.00020	0.00021	0.00022
	(CK * !SE * SI * !SN)	0.00013	0.00014	0.00015
	(CK * !SE * SI * !SN)	-0.00011	-0.00011	-0.00010
	(CK * !SE * SI * !SN)	0.00129	0.00131	0.00132
	(CK * !SE * !SI * SN)	0.00020	0.00022	0.00023
	(CK * !SE * !SI * SN)	0.00013	0.00013	0.00014
	(CK * !SE * !SI * SN)	-0.00012	-0.00011	-0.00011
	(CK * !SE * !SI * SN)	0.00129	0.00131	0.00134
	(CK * !SE * !SI * !SN)	0.00020	0.00021	0.00022
	(CK * !SE * !SI * !SN)	0.00013	0.00014	0.00015
	(CK * !SE * !SI * !SN)	-0.00011	-0.00011	-0.00010
	(CK * !SE * !SI * !SN)	0.00130	0.00131	0.00132
	(!CK * SE * SI * SN)	-0.00012	-0.00011	-0.00009
	(!CK * SE * SI * SN)	-0.00003	-0.00003	-0.00002
	(!CK * SE * SI * SN)	0.00002	0.00002	0.00002
	(!CK * SE * SI * SN)	0.00026	0.00026	0.00027
	(!CK * SE * SI * !SN)	-0.00012	-0.00011	-0.00009
	(!CK * SE * SI * !SN)	-0.00003	-0.00003	-0.00002
	(!CK * SE * SI * !SN)	0.00002	0.00002	0.00002
	(!CK * SE * SI * !SN)	0.00026	0.00026	0.00027
	(!CK * SE * !SI * SN)	-0.00012	-0.00011	-0.00009
	(!CK * SE * !SI * SN)	-0.00003	-0.00003	-0.00003
	(!CK * SE * !SI * SN)	0.00001	0.00002	0.00002
	(!CK * SE * !SI * SN)	0.00026	0.00026	0.00026
	(!CK * SE * !SI * !SN)	-0.00012	-0.00011	-0.00009
	(!CK * SE * !SI * !SN)	-0.00003	-0.00003	-0.00003
	(!CK * SE * !SI * !SN)	0.00001	0.00002	0.00002
	(!CK * SE * !SI * !SN)	0.00026	0.00026	0.00026
	(!CK * !SE * SI * SN)	0.00191	0.00193	0.00194
	(!CK * !SE * SI * SN)	0.00009	0.00009	0.00010
	(!CK * !SE * SI * SN)	-0.00008	-0.00007	-0.00006
	(!CK * !SE * SI * SN)	0.00292	0.00295	0.00297
	(!CK * !SE * SI * !SN)	0.00199	0.00200	0.00202
	(!CK * !SE * SI * !SN)	0.00008	0.00008	0.00009
	(!CK * !SE * SI * !SN)	-0.00001	-0.00000	0.00000
	(!CK * !SE * SI * !SN)	0.00299	0.00302	0.00305
	(!CK * !SE * !SI * SN)	0.00191	0.00193	0.00195
	(!CK * !SE * !SI * SN)	0.00009	0.00009	0.00009
	(!CK * !SE * !SI * SN)	-0.00008	-0.00007	-0.00006
	(!CK * !SE * !SI * SN)	0.00292	0.00295	0.00297
	(!CK * !SE * !SI * !SN)	0.00201	0.00202	0.00205
	(!CK * !SE * !SI * !SN)	0.00005	0.00006	0.00007
	(!CK * !SE * !SI * !SN)	-0.00001	-0.00000	0.00000
	(!CK * !SE * !SI * !SN)	0.00299	0.00301	0.00304

Passive power(pJ) for D falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFSQX2H7H	**(CK * SE * SI * SN)**	0.00012	0.00012	0.00012
	(CK * SE * SI * SN)	0.00002	0.00003	0.00003
	(CK * SE * SI * SN)	-0.00002	-0.00002	-0.00002
	(CK * SE * SI * SN)	-0.00026	-0.00025	-0.00024
	(CK * SE * SI * !SN)	0.00012	0.00012	0.00012
	(CK * SE * SI * !SN)	0.00002	0.00003	0.00003
	(CK * SE * SI * !SN)	-0.00002	-0.00002	-0.00002
	(CK * SE * SI * !SN)	-0.00026	-0.00025	-0.00024
	(CK * SE * !SI * SN)	0.00012	0.00012	0.00013
	(CK * SE * !SI * SN)	0.00003	0.00003	0.00003
	(CK * SE * !SI * SN)	-0.00002	-0.00001	-0.00001
	(CK * SE * !SI * SN)	-0.00026	-0.00025	-0.00024
	(CK * SE * !SI * !SN)	0.00012	0.00012	0.00013
	(CK * SE * !SI * !SN)	0.00003	0.00003	0.00003
	(CK * SE * !SI * !SN)	-0.00002	-0.00002	-0.00001
	(CK * SE * !SI * !SN)	-0.00026	-0.00025	-0.00024
	(CK * !SE * SI * SN)	0.00143	0.00145	0.00147
	(CK * !SE * SI * SN)	-0.00014	-0.00014	-0.00013
	(CK * !SE * SI * SN)	0.00011	0.00011	0.00012
	(CK * !SE * SI * SN)	0.00033	0.00034	0.00036
	(CK * !SE * SI * !SN)	0.00143	0.00145	0.00147
	(CK * !SE * SI * !SN)	-0.00015	-0.00014	-0.00013
	(CK * !SE * SI * !SN)	0.00011	0.00011	0.00011
	(CK * !SE * SI * !SN)	0.00034	0.00034	0.00035
	(CK * !SE * !SI * SN)	0.00143	0.00144	0.00146
	(CK * !SE * !SI * SN)	-0.00014	-0.00013	-0.00013
	(CK * !SE * !SI * SN)	0.00011	0.00011	0.00012
	(CK * !SE * !SI * SN)	0.00033	0.00034	0.00035
	(CK * !SE * !SI * !SN)	0.00143	0.00145	0.00145
	(CK * !SE * !SI * !SN)	-0.00014	-0.00014	-0.00013
	(CK * !SE * !SI * !SN)	0.00011	0.00011	0.00011
	(CK * !SE * !SI * !SN)	0.00033	0.00035	0.00036
	(!CK * SE * SI * SN)	0.00012	0.00012	0.00012
	(!CK * SE * SI * SN)	0.00002	0.00003	0.00003
	(!CK * SE * SI * SN)	-0.00002	-0.00002	-0.00002
	(!CK * SE * SI * SN)	-0.00026	-0.00025	-0.00024
	(!CK * SE * SI * !SN)	0.00012	0.00012	0.00012
	(!CK * SE * SI * !SN)	0.00002	0.00003	0.00003
	(!CK * SE * SI * !SN)	-0.00002	-0.00002	-0.00002
	(!CK * SE * SI * !SN)	-0.00026	-0.00025	-0.00024
	(!CK * SE * !SI * SN)	0.00012	0.00012	0.00013
	(!CK * SE * !SI * SN)	0.00003	0.00003	0.00003
	(!CK * SE * !SI * SN)	-0.00002	-0.00002	-0.00001
	(!CK * SE * !SI * SN)	-0.00026	-0.00025	-0.00024
	(!CK * SE * !SI * !SN)	0.00012	0.00012	0.00013
	(!CK * SE * !SI * !SN)	0.00003	0.00003	0.00003
	(!CK * SE * !SI * !SN)	-0.00002	-0.00002	-0.00001
	(!CK * SE * !SI * !SN)	-0.00026	-0.00025	-0.00024
	(!CK * !SE * SI * SN)	0.00268	0.00270	0.00272
	(!CK * !SE * SI * SN)	-0.00010	-0.00009	-0.00009
	(!CK * !SE * SI * SN)	0.00006	0.00007	0.00008
	(!CK * !SE * SI * SN)	0.00166	0.00168	0.00171
	(!CK * !SE * SI * !SN)	0.00175	0.00176	0.00178
	(!CK * !SE * SI * !SN)	-0.00001	-0.00001	-0.00000
	(!CK * !SE * SI * !SN)	0.00000	0.00000	0.00001
	(!CK * !SE * SI * !SN)	0.00090	0.00091	0.00093
	(!CK * !SE * !SI * SN)	0.00268	0.00270	0.00272
	(!CK * !SE * !SI * SN)	-0.00009	-0.00009	-0.00009
	(!CK * !SE * !SI * SN)	0.00006	0.00007	0.00008
	(!CK * !SE * !SI * SN)	0.00166	0.00168	0.00171
	(!CK * !SE * !SI * !SN)	0.00175	0.00176	0.00179
	(!CK * !SE * !SI * !SN)	-0.00001	-0.00001	-0.00000
	(!CK * !SE * !SI * !SN)	0.00000	0.00000	0.00001
	(!CK * !SE * !SI * !SN)	0.00090	0.00091	0.00093

Passive power(pJ) for SE rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFSQX2H7H	**(CK * D * SI * SN)**	-0.00015	-0.00013	-0.00009
	(CK * D * SI * SN)	0.00001	0.00001	0.00001
	(CK * D * SI * SN)	-0.00003	-0.00002	-0.00001
	(CK * D * SI * SN)	0.00111	0.00113	0.00117
	(CK * D * SI * !SN)	-0.00015	-0.00013	-0.00009
	(CK * D * SI * !SN)	0.00001	0.00001	0.00001
	(CK * D * SI * !SN)	-0.00003	-0.00002	-0.00000
	(CK * D * SI * !SN)	0.00111	0.00113	0.00116
	(CK * D * !SI * SN)	0.00122	0.00127	0.00133
	(CK * D * !SI * SN)	-0.00011	-0.00010	-0.00009
	(CK * D * !SI * SN)	0.00005	0.00006	0.00007
	(CK * D * !SI * SN)	0.00194	0.00199	0.00205
	(CK * D * !SI * !SN)	0.00122	0.00126	0.00131
	(CK * D * !SI * !SN)	-0.00010	-0.00009	-0.00008
	(CK * D * !SI * !SN)	0.00005	0.00006	0.00007
	(CK * D * !SI * !SN)	0.00194	0.00199	0.00205
	(CK * !D * SI * SN)	-0.00020	-0.00015	-0.00009
	(CK * !D * SI * SN)	0.00011	0.00012	0.00012
	(CK * !D * SI * SN)	-0.00013	-0.00012	-0.00011
	(CK * !D * SI * SN)	0.00163	0.00168	0.00176
	(CK * !D * SI * !SN)	-0.00020	-0.00015	-0.00008
	(CK * !D * SI * !SN)	0.00012	0.00012	0.00013
	(CK * !D * SI * !SN)	-0.00013	-0.00012	-0.00011
	(CK * !D * SI * !SN)	0.00163	0.00168	0.00175
	(CK * !D * !SI * SN)	-0.00016	-0.00014	-0.00010
	(CK * !D * !SI * SN)	0.00001	0.00002	0.00002
	(CK * !D * !SI * SN)	-0.00003	-0.00003	-0.00003
	(CK * !D * !SI * SN)	0.00112	0.00114	0.00117
	(CK * !D * !SI * !SN)	-0.00016	-0.00014	-0.00010
	(CK * !D * !SI * !SN)	0.00001	0.00002	0.00002
	(CK * !D * !SI * !SN)	-0.00003	-0.00003	-0.00002
	(CK * !D * !SI * !SN)	0.00112	0.00114	0.00117
	(!CK * D * SI * SN)	-0.00015	-0.00013	-0.00009
	(!CK * D * SI * SN)	0.00001	0.00001	0.00001
	(!CK * D * SI * SN)	-0.00003	-0.00002	-0.00001
	(!CK * D * SI * SN)	0.00111	0.00113	0.00117
	(!CK * D * SI * !SN)	-0.00015	-0.00013	-0.00008
	(!CK * D * SI * !SN)	0.00000	0.00001	0.00001
	(!CK * D * SI * !SN)	-0.00003	-0.00003	-0.00002
	(!CK * D * SI * !SN)	0.00111	0.00113	0.00116
	(!CK * D * !SI * SN)	0.00247	0.00252	0.00259
	(!CK * D * !SI * SN)	-0.00005	-0.00005	-0.00004
	(!CK * D * !SI * SN)	0.00002	0.00003	0.00004
	(!CK * D * !SI * SN)	0.00327	0.00332	0.00339
	(!CK * D * !SI * !SN)	0.00153	0.00158	0.00164
	(!CK * D * !SI * !SN)	0.00003	0.00004	0.00006
	(!CK * D * !SI * !SN)	0.00000	0.00000	0.00000
	(!CK * D * !SI * !SN)	0.00251	0.00255	0.00261
	(!CK * !D * SI * SN)	0.00151	0.00156	0.00163
	(!CK * !D * SI * SN)	0.00007	0.00007	0.00008
	(!CK * !D * SI * SN)	-0.00010	-0.00009	-0.00008
	(!CK * !D * SI * SN)	0.00326	0.00331	0.00340
	(!CK * !D * SI * !SN)	0.00161	0.00166	0.00173
	(!CK * !D * SI * !SN)	0.00007	0.00008	0.00008
	(!CK * !D * SI * !SN)	-0.00001	-0.00001	-0.00001
	(!CK * !D * SI * !SN)	0.00337	0.00342	0.00347
	(!CK * !D * !SI * SN)	-0.00016	-0.00014	-0.00010
	(!CK * !D * !SI * SN)	0.00001	0.00002	0.00002
	(!CK * !D * !SI * SN)	-0.00003	-0.00003	-0.00003
	(!CK * !D * !SI * SN)	0.00112	0.00115	0.00119
	(!CK * !D * !SI * !SN)	-0.00016	-0.00014	-0.00010
	(!CK * !D * !SI * !SN)	0.00001	0.00002	0.00002
	(!CK * !D * !SI * !SN)	-0.00003	-0.00003	-0.00002
	(!CK * !D * !SI * !SN)	0.00112	0.00114	0.00117

Passive power(pJ) for SE falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFSQX2H7H	**(CK * D * SI * SN)**	0.00106	0.00109	0.00113
	(CK * D * SI * SN)	-0.00001	-0.00001	-0.00000
	(CK * D * SI * SN)	0.00002	0.00003	0.00003
	(CK * D * SI * SN)	-0.00019	-0.00017	-0.00013
	(CK * D * SI * !SN)	0.00106	0.00109	0.00113
	(CK * D * SI * !SN)	-0.00001	-0.00001	-0.00000
	(CK * D * SI * !SN)	0.00002	0.00003	0.00003
	(CK * D * SI * !SN)	-0.00019	-0.00017	-0.00012
	(CK * D * !SI * SN)	0.00147	0.00149	0.00152
	(CK * D * !SI * SN)	0.00009	0.00010	0.00011
	(CK * D * !SI * SN)	-0.00007	-0.00006	-0.00005
	(CK * D * !SI * SN)	0.00075	0.00077	0.00081
	(CK * D * !SI * !SN)	0.00147	0.00149	0.00151
	(CK * D * !SI * !SN)	0.00009	0.00010	0.00012
	(CK * D * !SI * !SN)	-0.00007	-0.00006	-0.00005
	(CK * D * !SI * !SN)	0.00075	0.00077	0.00082
	(CK * !D * SI * SN)	0.00197	0.00202	0.00209
	(CK * !D * SI * SN)	-0.00012	-0.00012	-0.00011
	(CK * !D * SI * SN)	0.00012	0.00013	0.00013
	(CK * !D * SI * SN)	0.00015	0.00019	0.00025
	(CK * !D * SI * !SN)	0.00198	0.00202	0.00208
	(CK * !D * SI * !SN)	-0.00013	-0.00012	-0.00011
	(CK * !D * SI * !SN)	0.00011	0.00012	0.00013
	(CK * !D * SI * !SN)	0.00015	0.00020	0.00025
	(CK * !D * !SI * SN)	0.00105	0.00107	0.00112
	(CK * !D * !SI * SN)	-0.00002	-0.00002	-0.00001
	(CK * !D * !SI * SN)	0.00003	0.00003	0.00004
	(CK * !D * !SI * SN)	-0.00024	-0.00021	-0.00018
	(CK * !D * !SI * !SN)	0.00105	0.00107	0.00112
	(CK * !D * !SI * !SN)	-0.00002	-0.00002	-0.00001
	(CK * !D * !SI * !SN)	0.00003	0.00003	0.00004
	(CK * !D * !SI * !SN)	-0.00024	-0.00021	-0.00018
	(!CK * D * SI * SN)	0.00106	0.00109	0.00112
	(!CK * D * SI * SN)	-0.00001	-0.00001	-0.00000
	(!CK * D * SI * SN)	0.00002	0.00003	0.00004
	(!CK * D * SI * SN)	-0.00019	-0.00017	-0.00014
	(!CK * D * SI * !SN)	0.00106	0.00109	0.00112
	(!CK * D * SI * !SN)	-0.00001	-0.00001	0.00000
	(!CK * D * SI * !SN)	0.00002	0.00003	0.00004
	(!CK * D * SI * !SN)	-0.00019	-0.00017	-0.00013
	(!CK * D * !SI * SN)	0.00319	0.00321	0.00323
	(!CK * D * !SI * SN)	0.00004	0.00005	0.00005
	(!CK * D * !SI * SN)	-0.00003	-0.00003	-0.00002
	(!CK * D * !SI * SN)	0.00239	0.00241	0.00244
	(!CK * D * !SI * !SN)	0.00322	0.00326	0.00331
	(!CK * D * !SI * !SN)	0.00005	0.00007	0.00007
	(!CK * D * !SI * !SN)	0.00000	0.00000	0.00000
	(!CK * D * !SI * !SN)	0.00250	0.00252	0.00257
	(!CK * !D * SI * SN)	0.00323	0.00328	0.00333
	(!CK * !D * SI * SN)	-0.00008	-0.00007	-0.00006
	(!CK * !D * SI * SN)	0.00008	0.00009	0.00010
	(!CK * !D * SI * SN)	0.00149	0.00153	0.00161
	(!CK * !D * SI * !SN)	0.00229	0.00234	0.00239
	(!CK * !D * SI * !SN)	0.00001	0.00002	0.00003
	(!CK * !D * SI * !SN)	0.00001	0.00001	0.00001
	(!CK * !D * SI * !SN)	0.00072	0.00076	0.00084
	(!CK * !D * !SI * SN)	0.00105	0.00108	0.00111
	(!CK * !D * !SI * SN)	-0.00002	-0.00002	-0.00001
	(!CK * !D * !SI * SN)	0.00003	0.00003	0.00003
	(!CK * !D * !SI * SN)	-0.00024	-0.00021	-0.00018
	(!CK * !D * !SI * !SN)	0.00105	0.00107	0.00111
	(!CK * !D * !SI * !SN)	-0.00002	-0.00002	-0.00001
	(!CK * !D * !SI * !SN)	0.00003	0.00003	0.00003
	(!CK * !D * !SI * !SN)	-0.00024	-0.00021	-0.00017

Passive power(pJ) for SI rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFSQX2H7H	**(CK * D * SE * SN)**	0.00001	0.00002	0.00004
	(CK * D * SE * SN)	0.00011	0.00011	0.00012
	(CK * D * SE * SN)	-0.00011	-0.00010	-0.00009
	(CK * D * SE * SN)	0.00105	0.00107	0.00108
	(CK * D * SE * !SN)	0.00000	0.00002	0.00004
	(CK * D * SE * !SN)	0.00011	0.00011	0.00012
	(CK * D * SE * !SN)	-0.00010	-0.00010	-0.00010
	(CK * D * SE * !SN)	0.00105	0.00108	0.00110
	(CK * D * !SE * SN)	-0.00012	-0.00011	-0.00010
	(CK * D * !SE * SN)	-0.00002	-0.00002	-0.00002
	(CK * D * !SE * SN)	0.00001	0.00001	0.00001
	(CK * D * !SE * SN)	0.00028	0.00028	0.00028
	(CK * D * !SE * !SN)	-0.00012	-0.00011	-0.00010
	(CK * D * !SE * !SN)	-0.00002	-0.00002	-0.00002
	(CK * D * !SE * !SN)	0.00001	0.00001	0.00001
	(CK * D * !SE * !SN)	0.00027	0.00028	0.00028
	(CK * !D * SE * SN)	0.00001	0.00002	0.00004
	(CK * !D * SE * SN)	0.00011	0.00011	0.00012
	(CK * !D * SE * SN)	-0.00011	-0.00010	-0.00010
	(CK * !D * SE * SN)	0.00105	0.00107	0.00108
	(CK * !D * SE * !SN)	0.00000	0.00002	0.00004
	(CK * !D * SE * !SN)	0.00011	0.00011	0.00012
	(CK * !D * SE * !SN)	-0.00010	-0.00010	-0.00010
	(CK * !D * SE * !SN)	0.00105	0.00108	0.00110
	(CK * !D * !SE * SN)	-0.00018	-0.00017	-0.00016
	(CK * !D * !SE * SN)	-0.00002	-0.00002	-0.00002
	(CK * !D * !SE * SN)	0.00001	0.00001	0.00001
	(CK * !D * !SE * SN)	0.00022	0.00022	0.00023
	(CK * !D * !SE * !SN)	-0.00018	-0.00017	-0.00016
	(CK * !D * !SE * !SN)	-0.00002	-0.00002	-0.00002
	(CK * !D * !SE * !SN)	0.00001	0.00001	0.00001
	(CK * !D * !SE * !SN)	0.00022	0.00022	0.00023
	(!CK * D * SE * SN)	0.00171	0.00173	0.00175
	(!CK * D * SE * SN)	0.00006	0.00006	0.00007
	(!CK * D * SE * SN)	-0.00008	-0.00007	-0.00006
	(!CK * D * SE * SN)	0.00268	0.00271	0.00274
	(!CK * D * SE * !SN)	0.00179	0.00181	0.00183
	(!CK * D * SE * !SN)	0.00006	0.00006	0.00006
	(!CK * D * SE * !SN)	0.00000	0.00000	0.00000
	(!CK * D * SE * !SN)	0.00276	0.00278	0.00280
	(!CK * D * !SE * SN)	-0.00012	-0.00011	-0.00010
	(!CK * D * !SE * SN)	-0.00002	-0.00002	-0.00002
	(!CK * D * !SE * SN)	0.00001	0.00001	0.00001
	(!CK * D * !SE * SN)	0.00028	0.00028	0.00028
	(!CK * D * !SE * !SN)	-0.00012	-0.00011	-0.00010
	(!CK * D * !SE * !SN)	-0.00002	-0.00002	-0.00002
	(!CK * D * !SE * !SN)	0.00001	0.00001	0.00001
	(!CK * D * !SE * !SN)	0.00028	0.00028	0.00028
	(!CK * !D * SE * SN)	0.00170	0.00173	0.00176
	(!CK * !D * SE * SN)	0.00006	0.00006	0.00007
	(!CK * !D * SE * SN)	-0.00008	-0.00007	-0.00006
	(!CK * !D * SE * SN)	0.00268	0.00271	0.00273
	(!CK * !D * SE * !SN)	0.00181	0.00183	0.00185
	(!CK * !D * SE * !SN)	0.00003	0.00004	0.00004
	(!CK * !D * SE * !SN)	0.00000	0.00000	0.00000
	(!CK * !D * SE * !SN)	0.00275	0.00278	0.00280
	(!CK * !D * !SE * SN)	-0.00018	-0.00017	-0.00016
	(!CK * !D * !SE * SN)	-0.00002	-0.00002	-0.00002
	(!CK * !D * !SE * SN)	0.00001	0.00001	0.00002
	(!CK * !D * !SE * SN)	0.00022	0.00022	0.00022
	(!CK * !D * !SE * !SN)	-0.00018	-0.00017	-0.00016
	(!CK * !D * !SE * !SN)	-0.00002	-0.00002	-0.00002
	(!CK * !D * !SE * !SN)	0.00001	0.00001	0.00002
	(!CK * !D * !SE * !SN)	0.00022	0.00022	0.00022

Passive power(pJ) for SI falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFSQX2H7H	**(CK * D * SE * SN)**	0.00153	0.00155	0.00159
	(CK * D * SE * SN)	-0.00012	-0.00011	-0.00011
	(CK * D * SE * SN)	0.00010	0.00010	0.00011
	(CK * D * SE * SN)	0.00049	0.00051	0.00053
	(CK * D * SE * !SN)	0.00153	0.00156	0.00159
	(CK * D * SE * !SN)	-0.00012	-0.00011	-0.00011
	(CK * D * SE * !SN)	0.00010	0.00010	0.00010
	(CK * D * SE * !SN)	0.00049	0.00051	0.00054
	(CK * D * !SE * SN)	0.00011	0.00012	0.00012
	(CK * D * !SE * SN)	0.00002	0.00002	0.00002
	(CK * D * !SE * SN)	-0.00001	-0.00001	-0.00001
	(CK * D * !SE * SN)	-0.00028	-0.00027	-0.00026
	(CK * D * !SE * !SN)	0.00011	0.00012	0.00012
	(CK * D * !SE * !SN)	0.00002	0.00002	0.00002
	(CK * D * !SE * !SN)	-0.00001	-0.00001	-0.00001
	(CK * D * !SE * !SN)	-0.00028	-0.00027	-0.00026
	(CK * !D * SE * SN)	0.00153	0.00155	0.00159
	(CK * !D * SE * SN)	-0.00012	-0.00011	-0.00011
	(CK * !D * SE * SN)	0.00010	0.00010	0.00011
	(CK * !D * SE * SN)	0.00049	0.00051	0.00053
	(CK * !D * SE * !SN)	0.00153	0.00156	0.00159
	(CK * !D * SE * !SN)	-0.00012	-0.00011	-0.00011
	(CK * !D * SE * !SN)	0.00010	0.00010	0.00010
	(CK * !D * SE * !SN)	0.00049	0.00051	0.00054
	(CK * !D * !SE * SN)	0.00018	0.00018	0.00019
	(CK * !D * !SE * SN)	0.00002	0.00002	0.00002
	(CK * !D * !SE * SN)	-0.00001	-0.00001	-0.00001
	(CK * !D * !SE * SN)	-0.00022	-0.00021	-0.00019
	(CK * !D * !SE * !SN)	0.00018	0.00018	0.00019
	(CK * !D * !SE * !SN)	0.00002	0.00002	0.00002
	(CK * !D * !SE * !SN)	-0.00001	-0.00001	-0.00001
	(CK * !D * !SE * !SN)	-0.00022	-0.00021	-0.00019
	(!CK * D * SE * SN)	0.00278	0.00281	0.00284
	(!CK * D * SE * SN)	-0.00007	-0.00006	-0.00006
	(!CK * D * SE * SN)	0.00006	0.00007	0.00008
	(!CK * D * SE * SN)	0.00182	0.00184	0.00187
	(!CK * D * SE * !SN)	0.00184	0.00187	0.00190
	(!CK * D * SE * !SN)	0.00002	0.00002	0.00002
	(!CK * D * SE * !SN)	0.00000	0.00000	0.00000
	(!CK * D * SE * !SN)	0.00105	0.00108	0.00110
	(!CK * D * !SE * SN)	0.00012	0.00012	0.00012
	(!CK * D * !SE * SN)	0.00002	0.00002	0.00002
	(!CK * D * !SE * SN)	-0.00001	-0.00001	-0.00001
	(!CK * D * !SE * SN)	-0.00028	-0.00027	-0.00025
	(!CK * D * !SE * !SN)	0.00011	0.00012	0.00012
	(!CK * D * !SE * !SN)	0.00002	0.00002	0.00002
	(!CK * D * !SE * !SN)	-0.00001	-0.00001	-0.00001
	(!CK * D * !SE * !SN)	-0.00028	-0.00027	-0.00025
	(!CK * !D * SE * SN)	0.00278	0.00281	0.00284
	(!CK * !D * SE * SN)	-0.00007	-0.00006	-0.00006
	(!CK * !D * SE * SN)	0.00006	0.00007	0.00008
	(!CK * !D * SE * SN)	0.00182	0.00184	0.00187
	(!CK * !D * SE * !SN)	0.00184	0.00187	0.00190
	(!CK * !D * SE * !SN)	0.00002	0.00002	0.00003
	(!CK * !D * SE * !SN)	0.00000	0.00000	0.00000
	(!CK * !D * SE * !SN)	0.00105	0.00108	0.00110
	(!CK * !D * !SE * SN)	0.00018	0.00018	0.00019
	(!CK * !D * !SE * SN)	0.00002	0.00002	0.00002
	(!CK * !D * !SE * SN)	-0.00002	-0.00001	-0.00001
	(!CK * !D * !SE * SN)	-0.00022	-0.00021	-0.00020
	(!CK * !D * !SE * !SN)	0.00018	0.00018	0.00019
	(!CK * !D * !SE * !SN)	0.00002	0.00002	0.00002
	(!CK * !D * !SE * !SN)	-0.00002	-0.00001	-0.00001
	(!CK * !D * !SE * !SN)	-0.00022	-0.00021	-0.00020

Passive power(pJ) for SN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFSQX2H7H	**(CK * D * SE * SI)**	-0.00001	0.00002	0.00005
	(CK * D * SE * SI)	0.00003	0.00004	0.00004
	(CK * D * SE * SI)	-0.00003	-0.00003	-0.00002
	(CK * D * SE * SI)	0.00071	0.00073	0.00076
	(CK * D * SE * !SI)	-0.00001	0.00002	0.00005
	(CK * D * SE * !SI)	0.00003	0.00004	0.00004
	(CK * D * SE * !SI)	-0.00003	-0.00003	-0.00002
	(CK * D * SE * !SI)	0.00071	0.00073	0.00076
	(CK * D * !SE * SI)	-0.00001	0.00002	0.00005
	(CK * D * !SE * SI)	0.00003	0.00004	0.00004
	(CK * D * !SE * SI)	-0.00003	-0.00003	-0.00002
	(CK * D * !SE * SI)	0.00071	0.00073	0.00076
	(CK * D * !SE * !SI)	-0.00001	0.00002	0.00005
	(CK * D * !SE * !SI)	0.00003	0.00004	0.00004
	(CK * D * !SE * !SI)	-0.00003	-0.00003	-0.00002
	(CK * D * !SE * !SI)	0.00071	0.00073	0.00076
	(CK * !D * SE * SI)	-0.00001	0.00002	0.00005
	(CK * !D * SE * SI)	0.00003	0.00004	0.00004
	(CK * !D * SE * SI)	-0.00003	-0.00003	-0.00002
	(CK * !D * SE * SI)	0.00071	0.00073	0.00076
	(CK * !D * SE * !SI)	-0.00001	0.00002	0.00005
	(CK * !D * SE * !SI)	0.00003	0.00004	0.00004
	(CK * !D * SE * !SI)	-0.00003	-0.00003	-0.00002
	(CK * !D * SE * !SI)	0.00071	0.00073	0.00076
	(CK * !D * !SE * SI)	-0.00001	0.00002	0.00005
	(CK * !D * !SE * SI)	0.00003	0.00004	0.00004
	(CK * !D * !SE * SI)	-0.00003	-0.00003	-0.00002
	(CK * !D * !SE * SI)	0.00071	0.00073	0.00076
	(CK * !D * !SE * !SI)	-0.00001	0.00002	0.00005
	(CK * !D * !SE * !SI)	0.00003	0.00004	0.00004
	(CK * !D * !SE * !SI)	-0.00003	-0.00003	-0.00002
	(CK * !D * !SE * !SI)	0.00071	0.00073	0.00076
	(!CK * D * SE * SI)	-0.00000	0.00002	0.00004
	(!CK * D * SE * SI)	0.00003	0.00004	0.00005
	(!CK * D * SE * SI)	-0.00003	-0.00003	-0.00002
	(!CK * D * SE * SI)	0.00071	0.00073	0.00075
	(!CK * D * SE * !SI)	0.00101	0.00103	0.00106
	(!CK * D * SE * !SI)	0.00000	0.00000	0.00000
	(!CK * D * SE * !SI)	0.00001	0.00001	0.00001
	(!CK * D * SE * !SI)	0.00155	0.00157	0.00159
	(!CK * D * !SE * SI)	-0.00000	0.00002	0.00004
	(!CK * D * !SE * SI)	0.00003	0.00004	0.00005
	(!CK * D * !SE * SI)	-0.00003	-0.00003	-0.00002
	(!CK * D * !SE * SI)	0.00071	0.00073	0.00075
	(!CK * D * !SE * !SI)	-0.00000	0.00002	0.00004
	(!CK * D * !SE * !SI)	0.00003	0.00004	0.00005
	(!CK * D * !SE * !SI)	-0.00003	-0.00003	-0.00002
	(!CK * D * !SE * !SI)	0.00071	0.00073	0.00075
	(!CK * !D * SE * SI)	-0.00000	0.00002	0.00004
	(!CK * !D * SE * SI)	0.00003	0.00004	0.00005
	(!CK * !D * SE * SI)	-0.00003	-0.00003	-0.00002
	(!CK * !D * SE * SI)	0.00071	0.00073	0.00075
	(!CK * !D * SE * !SI)	0.00101	0.00103	0.00106
	(!CK * !D * SE * !SI)	0.00000	0.00000	0.00000
	(!CK * !D * SE * !SI)	0.00001	0.00001	0.00001
	(!CK * !D * SE * !SI)	0.00155	0.00157	0.00159
	(!CK * !D * !SE * SI)	0.00100	0.00103	0.00106
	(!CK * !D * !SE * SI)	0.00000	0.00000	0.00000
	(!CK * !D * !SE * SI)	0.00001	0.00001	0.00001
	(!CK * !D * !SE * SI)	0.00155	0.00157	0.00159
	(!CK * !D * !SE * !SI)	0.00100	0.00103	0.00106
	(!CK * !D * !SE * !SI)	0.00000	0.00000	0.00000
	(!CK * !D * !SE * !SI)	0.00001	0.00001	0.00001
	(!CK * !D * !SE * !SI)	0.00155	0.00157	0.00159

Passive power(pJ) for SN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

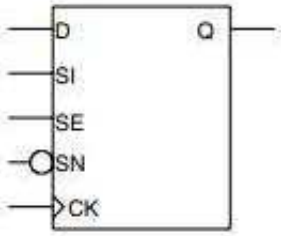
SDFFSQX2H7H	**(CK * D * SE * SI)**	0.00080	0.00082	0.00085
	(CK * D * SE * SI)	-0.00004	-0.00004	-0.00003
	(CK * D * SE * SI)	0.00002	0.00003	0.00003
	(CK * D * SE * SI)	0.00008	0.00011	0.00013
	(CK * D * SE * !SI)	0.00080	0.00082	0.00085
	(CK * D * SE * !SI)	-0.00004	-0.00004	-0.00003
	(CK * D * SE * !SI)	0.00002	0.00003	0.00003
	(CK * D * SE * !SI)	0.00008	0.00011	0.00013
	(CK * D * !SE * SI)	0.00080	0.00082	0.00085
	(CK * D * !SE * SI)	-0.00004	-0.00004	-0.00003
	(CK * D * !SE * SI)	0.00002	0.00003	0.00003
	(CK * D * !SE * SI)	0.00008	0.00011	0.00013
	(CK * D * !SE * !SI)	0.00080	0.00082	0.00085
	(CK * D * !SE * !SI)	-0.00004	-0.00004	-0.00003
	(CK * D * !SE * !SI)	0.00002	0.00003	0.00003
	(CK * D * !SE * !SI)	0.00008	0.00011	0.00013
	(CK * !D * SE * SI)	0.00080	0.00082	0.00085
	(CK * !D * SE * SI)	-0.00004	-0.00004	-0.00003
	(CK * !D * SE * SI)	0.00002	0.00003	0.00003
	(CK * !D * SE * SI)	0.00008	0.00011	0.00013
	(CK * !D * SE * !SI)	0.00080	0.00082	0.00085
	(CK * !D * SE * !SI)	-0.00004	-0.00004	-0.00003
	(CK * !D * SE * !SI)	0.00002	0.00003	0.00003
	(CK * !D * SE * !SI)	0.00008	0.00011	0.00013
	(CK * !D * !SE * SI)	0.00080	0.00082	0.00085
	(CK * !D * !SE * SI)	-0.00004	-0.00004	-0.00003
	(CK * !D * !SE * SI)	0.00002	0.00003	0.00003
	(CK * !D * !SE * SI)	0.00008	0.00011	0.00013
	(CK * !D * !SE * !SI)	0.00080	0.00082	0.00085
	(CK * !D * !SE * !SI)	-0.00004	-0.00004	-0.00003
	(CK * !D * !SE * !SI)	0.00002	0.00003	0.00003
	(CK * !D * !SE * !SI)	0.00008	0.00011	0.00013
	(!CK * D * SE * SI)	0.00079	0.00082	0.00084
	(!CK * D * SE * SI)	-0.00004	-0.00004	-0.00003
	(!CK * D * SE * SI)	0.00003	0.00003	0.00003
	(!CK * D * SE * SI)	0.00008	0.00010	0.00012
	(!CK * D * SE * !SI)	0.00081	0.00083	0.00086
	(!CK * D * SE * !SI)	0.00000	0.00000	0.00000
	(!CK * D * SE * !SI)	0.00003	0.00003	0.00004
	(!CK * D * SE * !SI)	0.00009	0.00012	0.00014
	(!CK * D * !SE * SI)	0.00079	0.00082	0.00084
	(!CK * D * !SE * SI)	-0.00004	-0.00004	-0.00003
	(!CK * D * !SE * SI)	0.00003	0.00003	0.00003
	(!CK * D * !SE * SI)	0.00008	0.00010	0.00012
	(!CK * D * !SE * !SI)	0.00079	0.00082	0.00084
	(!CK * D * !SE * !SI)	-0.00004	-0.00004	-0.00003
	(!CK * D * !SE * !SI)	0.00003	0.00003	0.00003
	(!CK * D * !SE * !SI)	0.00008	0.00010	0.00012
	(!CK * !D * SE * SI)	0.00079	0.00082	0.00084
	(!CK * !D * SE * SI)	-0.00004	-0.00004	-0.00003
	(!CK * !D * SE * SI)	0.00003	0.00003	0.00003
	(!CK * !D * SE * SI)	0.00008	0.00010	0.00012
	(!CK * !D * SE * !SI)	0.00081	0.00083	0.00086
	(!CK * !D * SE * !SI)	0.00000	0.00000	0.00000
	(!CK * !D * SE * !SI)	0.00002	0.00003	0.00003
	(!CK * !D * SE * !SI)	0.00009	0.00012	0.00015
	(!CK * !D * !SE * SI)	0.00081	0.00083	0.00086
	(!CK * !D * !SE * SI)	0.00000	0.00000	0.00000
	(!CK * !D * !SE * SI)	0.00003	0.00003	0.00004
	(!CK * !D * !SE * SI)	0.00009	0.00012	0.00014
	(!CK * !D * !SE * !SI)	0.00081	0.00083	0.00086
	(!CK * !D * !SE * !SI)	0.00000	0.00000	0.00000
	(!CK * !D * !SE * !SI)	0.00003	0.00003	0.00004
	(!CK * !D * !SE * !SI)	0.00009	0.00012	0.00014

SDFFSQX3H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The SDFFSQ cell is a high-speed, positive edge-triggered, static D-type flip-flop with scan input (SI), active-high scan enable (SE), and asynchronous active-low set (SN). The cell has a single output (Q).



Truth Table

INPUT					OUTPUT
CK	D	SE	SI	SN	Q
R	0	0	x	1	0
R	x	1	0	1	0
R	x	1	1	1	1
R	1	0	x	1	1
x	x	x	x	0	1
x	x	x	x	1	IQ

Footprint

Cell Name	Area
SDFFSQX3H7H	10.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	CK	D	SE	SI	SN	Q
SDFFSQX3H7H	0.00101	0.00082	0.00202	0.00082	0.00092	0.08560

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
SDFFSQX3H7H	0.00000	0.08897	0.08897

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFSQX3H7H	CK->Q (RR)	(D * SE * SN)	0.17171	0.36386	0.81058
	CK->Q (RR)	(D * !SE * SI * SN) + (!D * SE * !SI * SN)	0.17170	0.36386	0.81054
	CK->Q (RR)	(!SE * !SI * SN)	0.17170	0.36386	0.81054
	CK->Q (RR)	(!D * SI * SN)	0.17171	0.36386	0.81058
	SN->Q (FR)	(CK * D * SE * SI)	0.11813	0.30425	0.72090
	SN->Q (FR)	(CK * D * SE * !SI)	0.11813	0.30425	0.72088
	SN->Q (FR)	(CK * D * !SE * SI)	0.11813	0.30425	0.72090
	SN->Q (FR)	(CK * D * !SE * !SI)	0.11813	0.30425	0.72090
	SN->Q (FR)	(CK * !D * SE * SI)	0.11813	0.30425	0.72090
	SN->Q (FR)	(CK * !D * SE * !SI)	0.11813	0.30425	0.72088
	SN->Q (FR)	(CK * !D * !SE * SI)	0.11813	0.30425	0.72088
	SN->Q (FR)	(CK * !D * !SE * !SI)	0.11813	0.30425	0.72088
	SN->Q (FR)	(!CK * D * SE * SI)	0.10954	0.28504	0.69472
	SN->Q (FR)	(!CK * D * SE * !SI)	0.11206	0.28820	0.69835
	SN->Q (FR)	(!CK * D * !SE * SI)	0.10954	0.28504	0.69472
	SN->Q (FR)	(!CK * D * !SE * !SI)	0.10954	0.28504	0.69472
	SN->Q (FR)	(!CK * !D * SE * SI)	0.10954	0.28504	0.69472
	SN->Q (FR)	(!CK * !D * SE * !SI)	0.11206	0.28820	0.69835
	SN->Q (FR)	(!CK * !D * !SE * SI)	0.11206	0.28820	0.69835
	SN->Q (FR)	(!CK * !D * !SE * !SI)	0.11206	0.28820	0.69835

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFSQX3H7H	CK->Q (RF)	(D * SE * SN)	0.23223	0.43739	0.83368
	CK->Q (RF)	(D * !SE * SI * SN) + (!D * SE * !SI * SN)	0.23223	0.43739	0.83362
	CK->Q (RF)	(!SE * !SI * SN)	0.23225	0.43742	0.83380
	CK->Q (RF)	(!D * SI * SN)	0.23225	0.43742	0.83380

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
SDFFSQX3H7H	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSQX3H7H	**hold**	**CK (R)**	-0.21179	-0.03333	0.13559
	setup	**CK (R)**	-0.08043	0.10870	0.29804

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSQX3H7H	**hold**	**CK (R)**	-0.30087	-0.13005	-0.00922
	setup	**CK (R)**	0.05660	0.21530	0.41193

Constraints(ns) for SE rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSQX3H7H	**hold**	**CK (R)**	-0.17226	-0.01784	0.14514
	setup	**CK (R)**	0.12187	0.26295	0.40658

Constraints(ns) for SE falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSQX3H7H	**hold**	**CK (R)**	-0.22870	-0.05976	0.10980
	setup	**CK (R)**	0.03783	0.18734	0.35962

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSQX3H7H	hold	CK (R)	-0.22113	-0.03935	0.13150
	setup	CK (R)	-0.07490	0.11536	0.30806

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSQX3H7H	hold	CK (R)	-0.36954	-0.18121	-0.05920
	setup	CK (R)	0.10636	0.26749	0.48007

Min Pulse Width (ns) for SN:

Cell Name	High	Low
SDFFSQX3H7H	-	0.9851

Constraints(ns) for SN rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSQX3H7H	recovery	CK (R)	-0.07826	0.08742	0.23224
	removal	CK (R)	0.04447	0.15236	0.32249

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

	CK	**(D * SE * SN)**	0.00398	0.00407	0.00418
	CK	**(D * SE * SN)**	-0.00002	-0.00001	0.00000
	CK	**(D * SE * SN)**	-0.00000	0.00000	0.00003
	CK	**(D * SE * SN)**	0.00468	0.00478	0.00488
	CK	**(D * !SE * SI * SN) + (!D * SE * !SI * SN)**	0.00398	0.00407	0.00418
	CK	**(D * !SE * SI * SN) + (!D * SE * !SI * SN)**	-0.00002	-0.00001	0.00000
	CK	**(D * !SE * SI * SN) + (!D * SE * !SI * SN)**	0.00000	0.00000	0.00003
	CK	**(D * !SE * SI * SN) + (!D * SE * !SI * SN)**	0.00468	0.00478	0.00488
	CK	**(!SE * !SI * SN)**	0.00398	0.00407	0.00418
	CK	**(!SE * !SI * SN)**	-0.00002	-0.00001	0.00000
	CK	**(!SE * !SI * SN)**	0.00000	0.00000	0.00003
	CK	**(!SE * !SI * SN)**	0.00468	0.00478	0.00488
	CK	**(!D * SI * SN)**	0.00397	0.00407	0.00418
	CK	**(!D * SI * SN)**	-0.00002	-0.00001	0.00000
	CK	**(!D * SI * SN)**	-0.00000	0.00000	0.00003
	CK	**(!D * SI * SN)**	0.00468	0.00478	0.00488
	SN	**(CK * D * SE * SI)**	0.00500	0.00511	0.00523
	SN	**(CK * D * SE * SI)**	-0.00010	-0.00006	-0.00006
	SN	**(CK * D * SE * SI)**	0.00002	0.00006	0.00009
	SN	**(CK * D * SE * SI)**	0.00423	0.00436	0.00447
	SN	**(CK * D * SE * !SI)**	0.00500	0.00511	0.00523
	SN	**(CK * D * SE * !SI)**	-0.00010	-0.00006	-0.00006
	SN	**(CK * D * SE * !SI)**	0.00002	0.00006	0.00008
	SN	**(CK * D * SE * !SI)**	0.00423	0.00436	0.00447
	SN	**(CK * D * !SE * SI)**	0.00500	0.00511	0.00523
	SN	**(CK * D * !SE * SI)**	-0.00010	-0.00006	-0.00006
	SN	**(CK * D * !SE * SI)**	0.00002	0.00006	0.00009
	SN	**(CK * D * !SE * SI)**	0.00423	0.00436	0.00447
	SN	**(CK * D * !SE * !SI)**	0.00500	0.00511	0.00523
	SN	**(CK * D * !SE * !SI)**	-0.00010	-0.00006	-0.00006
	SN	**(CK * D * !SE * !SI)**	0.00002	0.00006	0.00009
	SN	**(CK * D * !SE * !SI)**	0.00423	0.00436	0.00447
	SN	**(CK * !D * SE * SI)**	0.00500	0.00511	0.00523
	SN	**(CK * !D * SE * SI)**	-0.00010	-0.00006	-0.00006
	SN	**(CK * !D * SE * SI)**	0.00002	0.00006	0.00009
	SN	**(CK * !D * SE * SI)**	0.00423	0.00436	0.00447
	SN	**(CK * !D * SE * !SI)**	0.00500	0.00511	0.00523
	SN	**(CK * !D * SE * !SI)**	-0.00010	-0.00006	-0.00006
SDFFSQX3H7H	**SN**	**(CK * !D * SE * !SI)**	0.00002	0.00006	0.00008
	SN	**(CK * !D * SE * !SI)**	0.00423	0.00436	0.00447
	SN	**(CK * !D * !SE * SI)**	0.00500	0.00511	0.00523
	SN	**(CK * !D * !SE * SI)**	-0.00010	-0.00006	-0.00006
	SN	**(CK * !D * !SE * SI)**	0.00002	0.00005	0.00009
	SN	**(CK * !D * !SE * SI)**	0.00425	0.00436	0.00447
	SN	**(CK * !D * !SE * !SI)**	0.00500	0.00511	0.00523
	SN	**(CK * !D * !SE * !SI)**	-0.00010	-0.00006	-0.00006
	SN	**(CK * !D * !SE * !SI)**	0.00002	0.00005	0.00009
	SN	**(CK * !D * !SE * !SI)**	0.00425	0.00436	0.00447
	SN	**(!CK * D * SE * SI)**	0.00355	0.00367	0.00378
	SN	**(!CK * D * SE * SI)**	-0.00008	-0.00002	0.00007
	SN	**(!CK * D * SE * SI)**	-0.00005	-0.00001	0.00003
	SN	**(!CK * D * SE * SI)**	0.00289	0.00303	0.00314
	SN	**(!CK * D * SE * !SI)**	0.00359	0.00370	0.00380
	SN	**(!CK * D * SE * !SI)**	-0.00003	-0.00000	0.00003
	SN	**(!CK * D * SE * !SI)**	-0.00006	-0.00002	0.00004
	SN	**(!CK * D * SE * !SI)**	0.00295	0.00308	0.00318
	SN	**(!CK * D * !SE * SI)**	0.00355	0.00366	0.00378
	SN	**(!CK * D * !SE * SI)**	-0.00008	-0.00002	0.00007
	SN	**(!CK * D * !SE * SI)**	-0.00004	-0.00001	0.00003
	SN	**(!CK * D * !SE * SI)**	0.00289	0.00302	0.00314
	SN	**(!CK * D * !SE * !SI)**	0.00355	0.00366	0.00378
	SN	**(!CK * D * !SE * !SI)**	-0.00008	-0.00002	0.00007
	SN	**(!CK * D * !SE * !SI)**	-0.00004	-0.00001	0.00003
	SN	**(!CK * D * !SE * !SI)**	0.00289	0.00302	0.00314
	SN	**(!CK * !D * SE * SI)**	0.00355	0.00367	0.00378
	SN	**(!CK * !D * SE * SI)**	-0.00008	-0.00002	0.00007
	SN	**(!CK * !D * SE * SI)**	-0.00005	-0.00001	0.00003
	SN	**(!CK * !D * SE * SI)**	0.00289	0.00303	0.00314
	SN	**(!CK * !D * SE * !SI)**	0.00359	0.00370	0.00380
	SN	**(!CK * !D * SE * !SI)**	-0.00003	-0.00000	0.00003
	SN	**(!CK * !D * SE * !SI)**	-0.00006	-0.00002	0.00004
	SN	**(!CK * !D * SE * !SI)**	0.00295	0.00308	0.00318
	SN	**(!CK * !D * !SE * SI)**	0.00358	0.00370	0.00380
	SN	**(!CK * !D * !SE * SI)**	-0.00001	-0.00000	0.00000
	SN	**(!CK * !D * !SE * SI)**	-0.00006	-0.00002	0.00004
	SN	**(!CK * !D * !SE * SI)**	0.00294	0.00308	0.00318
	SN	**(!CK * !D * !SE * !SI)**	0.00358	0.00370	0.00380
	SN	**(!CK * !D * !SE * !SI)**	-0.00001	-0.00000	0.00000
	SN	**(!CK * !D * !SE * !SI)**	-0.00006	-0.00002	0.00004
	SN	**(!CK * !D * !SE * !SI)**	0.00294	0.00308	0.00318

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFSQX3H7H	CK	(D * SE * SN)	0.00420	0.00432	0.00445
	CK	(D * SE * SN)	0.00000	0.00001	0.00002
	CK	(D * SE * SN)	-0.00003	-0.00000	0.00000
	CK	(D * SE * SN)	0.00489	0.00501	0.00516
	CK	(D * !SE * SI * SN) + (!D * SE * !SI * SN)	0.00420	0.00432	0.00445
	CK	(D * !SE * SI * SN) + (!D * SE * !SI * SN)	0.00000	0.00001	0.00002
	CK	(D * !SE * SI * SN) + (!D * SE * !SI * SN)	-0.00000	-0.00000	0.00000
	CK	(D * !SE * SI * SN) + (!D * SE * !SI * SN)	0.00489	0.00501	0.00516
	CK	(!SE * !SI * SN)	0.00420	0.00432	0.00445
	CK	(!SE * !SI * SN)	0.00000	0.00001	0.00002
	CK	(!SE * !SI * SN)	-0.00001	-0.00000	0.00000
	CK	(!SE * !SI * SN)	0.00489	0.00501	0.00515
	CK	(!D * SI * SN)	0.00420	0.00432	0.00445
	CK	(!D * SI * SN)	0.00000	0.00001	0.00002
	CK	(!D * SI * SN)	-0.00003	-0.00000	0.00000
	CK	(!D * SI * SN)	0.00489	0.00501	0.00515

Passive power(pJ) for CK rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFSQX3H7H	**(D * SE * SI * SN)**	0.00153	0.00156	0.00160
	(D * SE * SI * SN)	0.00000	0.00000	0.00000
	(D * SE * SI * SN)	0.00000	0.00001	0.00002
	(D * SE * SI * SN)	0.00221	0.00225	0.00228
	(D * SE * SI * !SN)	0.00149	0.00152	0.00156
	(D * SE * SI * !SN)	-0.00000	0.00000	0.00001
	(D * SE * SI * !SN)	0.00000	0.00001	0.00001
	(D * SE * SI * !SN)	0.00218	0.00222	0.00227
	(D * SE * !SI * SN)	0.00166	0.00169	0.00174
	(D * SE * !SI * SN)	-0.00000	0.00000	0.00000
	(D * SE * !SI * SN)	0.00000	0.00000	0.00000
	(D * SE * !SI * SN)	0.00237	0.00240	0.00244
	(D * SE * !SI * !SN)	0.00301	0.00307	0.00312
	(D * SE * !SI * !SN)	-0.00004	-0.00004	-0.00003
	(D * SE * !SI * !SN)	0.00002	0.00003	0.00004
	(D * SE * !SI * !SN)	0.00365	0.00370	0.00376
	(D * !SE * SI * SN)	0.00153	0.00156	0.00160
	(D * !SE * SI * SN)	0.00000	0.00000	0.00001
	(D * !SE * SI * SN)	0.00000	0.00001	0.00001
	(D * !SE * SI * SN)	0.00221	0.00225	0.00229
	(D * !SE * SI * !SN)	0.00149	0.00152	0.00156
	(D * !SE * SI * !SN)	-0.00000	0.00001	0.00002
	(D * !SE * SI * !SN)	0.00000	0.00001	0.00001
	(D * !SE * SI * !SN)	0.00219	0.00222	0.00226
	(D * !SE * !SI * SN)	0.00153	0.00156	0.00160
	(D * !SE * !SI * SN)	0.00000	0.00000	0.00000
	(D * !SE * !SI * SN)	0.00000	0.00001	0.00001
	(D * !SE * !SI * SN)	0.00221	0.00225	0.00229
	(D * !SE * !SI * !SN)	0.00149	0.00152	0.00156
	(D * !SE * !SI * !SN)	-0.00000	0.00001	0.00002
	(D * !SE * !SI * !SN)	0.00000	0.00001	0.00001
	(D * !SE * !SI * !SN)	0.00219	0.00222	0.00226
	(!D * SE * SI * SN)	0.00153	0.00156	0.00160
	(!D * SE * SI * SN)	0.00000	0.00000	0.00000
	(!D * SE * SI * SN)	0.00000	0.00001	0.00002
	(!D * SE * SI * SN)	0.00221	0.00225	0.00228
	(!D * SE * SI * !SN)	0.00149	0.00152	0.00156
	(!D * SE * SI * !SN)	-0.00000	0.00000	0.00001
	(!D * SE * SI * !SN)	0.00000	0.00001	0.00001
	(!D * SE * SI * !SN)	0.00219	0.00222	0.00227
	(!D * SE * !SI * SN)	0.00166	0.00169	0.00174
	(!D * SE * !SI * SN)	-0.00000	0.00000	0.00000
	(!D * SE * !SI * SN)	0.00000	0.00000	0.00000
	(!D * SE * !SI * SN)	0.00237	0.00240	0.00244
	(!D * SE * !SI * !SN)	0.00301	0.00307	0.00312
	(!D * SE * !SI * !SN)	-0.00004	-0.00004	-0.00003
	(!D * SE * !SI * !SN)	0.00002	0.00003	0.00005
	(!D * SE * !SI * !SN)	0.00365	0.00370	0.00374
	(!D * !SE * SI * SN)	0.00165	0.00169	0.00173
	(!D * !SE * SI * SN)	-0.00001	0.00000	0.00001
	(!D * !SE * SI * SN)	0.00000	0.00000	0.00000
	(!D * !SE * SI * SN)	0.00237	0.00241	0.00245
	(!D * !SE * SI * !SN)	0.00301	0.00307	0.00313
	(!D * !SE * SI * !SN)	-0.00004	-0.00004	-0.00003
	(!D * !SE * SI * !SN)	0.00003	0.00003	0.00004
	(!D * !SE * SI * !SN)	0.00365	0.00370	0.00375
	(!D * !SE * !SI * SN)	0.00165	0.00169	0.00174
	(!D * !SE * !SI * SN)	-0.00001	-0.00000	0.00000
	(!D * !SE * !SI * SN)	0.00000	0.00000	0.00000
	(!D * !SE * !SI * SN)	0.00237	0.00241	0.00245
	(!D * !SE * !SI * !SN)	0.00301	0.00306	0.00311
	(!D * !SE * !SI * !SN)	-0.00004	-0.00003	-0.00003
	(!D * !SE * !SI * !SN)	0.00003	0.00003	0.00004
	(!D * !SE * !SI * !SN)	0.00365	0.00370	0.00375

Passive power(pJ) for CK falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFSQX3H7H	**(D * SE * SI * SN)**	0.00410	0.00416	0.00422
	(D * SE * SI * SN)	0.00000	0.00000	0.00000
	(D * SE * SI * SN)	0.00003	0.00004	0.00004
	(D * SE * SI * SN)	0.00333	0.00339	0.00346
	(D * SE * SI * !SN)	0.00256	0.00260	0.00264
	(D * SE * SI * !SN)	-0.00001	-0.00000	0.00000
	(D * SE * SI * !SN)	-0.00001	-0.00000	0.00000
	(D * SE * SI * !SN)	0.00186	0.00189	0.00194
	(D * SE * !SI * SN)	0.00371	0.00377	0.00383
	(D * SE * !SI * SN)	0.00004	0.00004	0.00005
	(D * SE * !SI * SN)	0.00000	0.00000	0.00000
	(D * SE * !SI * SN)	0.00308	0.00315	0.00322
	(D * SE * !SI * !SN)	0.00266	0.00271	0.00276
	(D * SE * !SI * !SN)	0.00011	0.00011	0.00011
	(D * SE * !SI * !SN)	-0.00004	-0.00003	-0.00002
	(D * SE * !SI * !SN)	0.00217	0.00222	0.00229
	(D * !SE * SI * SN)	0.00410	0.00416	0.00423
	(D * !SE * SI * SN)	-0.00001	-0.00000	0.00000
	(D * !SE * SI * SN)	0.00003	0.00004	0.00004
	(D * !SE * SI * SN)	0.00333	0.00339	0.00345
	(D * !SE * SI * !SN)	0.00256	0.00260	0.00264
	(D * !SE * SI * !SN)	-0.00000	-0.00000	0.00001
	(D * !SE * SI * !SN)	-0.00001	-0.00000	0.00001
	(D * !SE * SI * !SN)	0.00186	0.00190	0.00194
	(D * !SE * !SI * SN)	0.00410	0.00416	0.00423
	(D * !SE * !SI * SN)	-0.00000	-0.00000	0.00000
	(D * !SE * !SI * SN)	0.00003	0.00004	0.00004
	(D * !SE * !SI * SN)	0.00333	0.00339	0.00345
	(D * !SE * !SI * !SN)	0.00256	0.00260	0.00264
	(D * !SE * !SI * !SN)	-0.00000	-0.00000	0.00001
	(D * !SE * !SI * !SN)	-0.00001	-0.00000	0.00000
	(D * !SE * !SI * !SN)	0.00186	0.00190	0.00194
	(!D * SE * SI * SN)	0.00410	0.00416	0.00422
	(!D * SE * SI * SN)	0.00000	0.00000	0.00000
	(!D * SE * SI * SN)	0.00003	0.00004	0.00005
	(!D * SE * SI * SN)	0.00333	0.00339	0.00344
	(!D * SE * SI * !SN)	0.00256	0.00260	0.00265
	(!D * SE * SI * !SN)	-0.00001	-0.00000	0.00000
	(!D * SE * SI * !SN)	-0.00001	-0.00000	0.00000
	(!D * SE * SI * !SN)	0.00186	0.00190	0.00195
	(!D * SE * !SI * SN)	0.00371	0.00377	0.00384
	(!D * SE * !SI * SN)	0.00004	0.00004	0.00005
	(!D * SE * !SI * SN)	0.00000	0.00000	0.00000
	(!D * SE * !SI * SN)	0.00308	0.00315	0.00322
	(!D * SE * !SI * !SN)	0.00266	0.00271	0.00277
	(!D * SE * !SI * !SN)	0.00011	0.00011	0.00011
	(!D * SE * !SI * !SN)	-0.00005	-0.00003	-0.00002
	(!D * SE * !SI * !SN)	0.00217	0.00222	0.00229
	(!D * !SE * SI * SN)	0.00371	0.00377	0.00383
	(!D * !SE * SI * SN)	0.00004	0.00005	0.00005
	(!D * !SE * SI * SN)	0.00000	0.00000	0.00000
	(!D * !SE * SI * SN)	0.00308	0.00315	0.00322
	(!D * !SE * SI * !SN)	0.00266	0.00271	0.00278
	(!D * !SE * SI * !SN)	0.00010	0.00011	0.00011
	(!D * !SE * SI * !SN)	-0.00004	-0.00003	-0.00003
	(!D * !SE * SI * !SN)	0.00217	0.00222	0.00228
	(!D * !SE * !SI * SN)	0.00371	0.00377	0.00384
	(!D * !SE * !SI * SN)	0.00004	0.00004	0.00005
	(!D * !SE * !SI * SN)	0.00000	0.00000	0.00000
	(!D * !SE * !SI * SN)	0.00308	0.00315	0.00322
	(!D * !SE * !SI * !SN)	0.00266	0.00271	0.00278
	(!D * !SE * !SI * !SN)	0.00010	0.00011	0.00011
	(!D * !SE * !SI * !SN)	-0.00004	-0.00003	-0.00003
	(!D * !SE * !SI * !SN)	0.00217	0.00222	0.00228

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFSQX3H7H	**(CK * SE * SI * SN)**	-0.00012	-0.00011	-0.00009
	(CK * SE * SI * SN)	-0.00003	-0.00003	-0.00003
	(CK * SE * SI * SN)	0.00002	0.00002	0.00002
	(CK * SE * SI * SN)	0.00026	0.00026	0.00027
	(CK * SE * SI * !SN)	-0.00012	-0.00011	-0.00009
	(CK * SE * SI * !SN)	-0.00003	-0.00003	-0.00003
	(CK * SE * SI * !SN)	0.00002	0.00002	0.00002
	(CK * SE * SI * !SN)	0.00026	0.00026	0.00027
	(CK * SE * !SI * SN)	-0.00012	-0.00011	-0.00009
	(CK * SE * !SI * SN)	-0.00003	-0.00003	-0.00003
	(CK * SE * !SI * SN)	0.00001	0.00002	0.00002
	(CK * SE * !SI * SN)	0.00026	0.00026	0.00026
	(CK * SE * !SI * !SN)	-0.00012	-0.00011	-0.00009
	(CK * SE * !SI * !SN)	-0.00003	-0.00003	-0.00003
	(CK * SE * !SI * !SN)	0.00001	0.00002	0.00002
	(CK * SE * !SI * !SN)	0.00026	0.00026	0.00026
	(CK * !SE * SI * SN)	0.00021	0.00022	0.00023
	(CK * !SE * SI * SN)	0.00013	0.00014	0.00014
	(CK * !SE * SI * SN)	-0.00012	-0.00011	-0.00011
	(CK * !SE * SI * SN)	0.00129	0.00131	0.00133
	(CK * !SE * SI * !SN)	0.00021	0.00022	0.00024
	(CK * !SE * SI * !SN)	0.00013	0.00014	0.00014
	(CK * !SE * SI * !SN)	-0.00011	-0.00011	-0.00011
	(CK * !SE * SI * !SN)	0.00129	0.00130	0.00133
	(CK * !SE * !SI * SN)	0.00021	0.00022	0.00024
	(CK * !SE * !SI * SN)	0.00013	0.00013	0.00014
	(CK * !SE * !SI * SN)	-0.00012	-0.00011	-0.00011
	(CK * !SE * !SI * SN)	0.00129	0.00131	0.00133
	(CK * !SE * !SI * !SN)	0.00021	0.00022	0.00023
	(CK * !SE * !SI * !SN)	0.00013	0.00014	0.00015
	(CK * !SE * !SI * !SN)	-0.00011	-0.00011	-0.00011
	(CK * !SE * !SI * !SN)	0.00129	0.00131	0.00132
	(!CK * SE * SI * SN)	-0.00012	-0.00011	-0.00009
	(!CK * SE * SI * SN)	-0.00003	-0.00003	-0.00003
	(!CK * SE * SI * SN)	0.00002	0.00002	0.00002
	(!CK * SE * SI * SN)	0.00026	0.00026	0.00027
	(!CK * SE * SI * !SN)	-0.00012	-0.00011	-0.00009
	(!CK * SE * SI * !SN)	-0.00003	-0.00003	-0.00003
	(!CK * SE * SI * !SN)	0.00002	0.00002	0.00002
	(!CK * SE * SI * !SN)	0.00026	0.00026	0.00027
	(!CK * SE * !SI * SN)	-0.00012	-0.00011	-0.00009
	(!CK * SE * !SI * SN)	-0.00003	-0.00003	-0.00003
	(!CK * SE * !SI * SN)	0.00001	0.00002	0.00002
	(!CK * SE * !SI * SN)	0.00026	0.00026	0.00026
	(!CK * SE * !SI * !SN)	-0.00012	-0.00011	-0.00009
	(!CK * SE * !SI * !SN)	-0.00003	-0.00003	-0.00003
	(!CK * SE * !SI * !SN)	0.00001	0.00002	0.00002
	(!CK * SE * !SI * !SN)	0.00026	0.00026	0.00026
	(!CK * !SE * SI * SN)	0.00191	0.00193	0.00194
	(!CK * !SE * SI * SN)	0.00009	0.00010	0.00011
	(!CK * !SE * SI * SN)	-0.00009	-0.00008	-0.00007
	(!CK * !SE * SI * SN)	0.00292	0.00295	0.00297
	(!CK * !SE * SI * !SN)	0.00198	0.00200	0.00202
	(!CK * !SE * SI * !SN)	0.00008	0.00009	0.00010
	(!CK * !SE * SI * !SN)	-0.00001	-0.00000	0.00000
	(!CK * !SE * SI * !SN)	0.00299	0.00302	0.00304
	(!CK * !SE * !SI * SN)	0.00191	0.00193	0.00194
	(!CK * !SE * !SI * SN)	0.00009	0.00010	0.00011
	(!CK * !SE * !SI * SN)	-0.00009	-0.00008	-0.00007
	(!CK * !SE * !SI * SN)	0.00292	0.00295	0.00297
	(!CK * !SE * !SI * !SN)	0.00200	0.00201	0.00203
	(!CK * !SE * !SI * !SN)	0.00007	0.00007	0.00008
	(!CK * !SE * !SI * !SN)	-0.00001	-0.00000	0.00000
	(!CK * !SE * !SI * !SN)	0.00299	0.00301	0.00303

Passive power(pJ) for D falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFSQX3H7H	**(CK * SE * SI * SN)**	0.00011	0.00012	0.00012
	(CK * SE * SI * SN)	0.00003	0.00003	0.00003
	(CK * SE * SI * SN)	-0.00002	-0.00002	-0.00002
	(CK * SE * SI * SN)	-0.00026	-0.00025	-0.00024
	(CK * SE * SI * !SN)	0.00011	0.00012	0.00012
	(CK * SE * SI * !SN)	0.00003	0.00003	0.00003
	(CK * SE * SI * !SN)	-0.00002	-0.00002	-0.00002
	(CK * SE * SI * !SN)	-0.00026	-0.00025	-0.00024
	(CK * SE * !SI * SN)	0.00012	0.00012	0.00013
	(CK * SE * !SI * SN)	0.00003	0.00003	0.00003
	(CK * SE * !SI * SN)	-0.00002	-0.00002	-0.00001
	(CK * SE * !SI * SN)	-0.00026	-0.00025	-0.00024
	(CK * SE * !SI * !SN)	0.00012	0.00012	0.00013
	(CK * SE * !SI * !SN)	0.00003	0.00003	0.00003
	(CK * SE * !SI * !SN)	-0.00002	-0.00002	-0.00001
	(CK * SE * !SI * !SN)	-0.00026	-0.00025	-0.00024
	(CK * !SE * SI * SN)	0.00142	0.00143	0.00144
	(CK * !SE * SI * SN)	-0.00014	-0.00013	-0.00013
	(CK * !SE * SI * SN)	0.00011	0.00011	0.00012
	(CK * !SE * SI * SN)	0.00033	0.00034	0.00036
	(CK * !SE * SI * !SN)	0.00142	0.00143	0.00144
	(CK * !SE * SI * !SN)	-0.00014	-0.00014	-0.00013
	(CK * !SE * SI * !SN)	0.00011	0.00011	0.00011
	(CK * !SE * SI * !SN)	0.00034	0.00035	0.00037
	(CK * !SE * !SI * SN)	0.00142	0.00143	0.00144
	(CK * !SE * !SI * SN)	-0.00014	-0.00013	-0.00013
	(CK * !SE * !SI * SN)	0.00011	0.00011	0.00012
	(CK * !SE * !SI * SN)	0.00033	0.00034	0.00035
	(CK * !SE * !SI * !SN)	0.00142	0.00143	0.00144
	(CK * !SE * !SI * !SN)	-0.00014	-0.00014	-0.00013
	(CK * !SE * !SI * !SN)	0.00011	0.00011	0.00011
	(CK * !SE * !SI * !SN)	0.00034	0.00035	0.00036
	(!CK * SE * SI * SN)	0.00011	0.00012	0.00012
	(!CK * SE * SI * SN)	0.00003	0.00003	0.00003
	(!CK * SE * SI * SN)	-0.00002	-0.00002	-0.00002
	(!CK * SE * SI * SN)	-0.00026	-0.00025	-0.00024
	(!CK * SE * SI * !SN)	0.00011	0.00012	0.00012
	(!CK * SE * SI * !SN)	0.00003	0.00003	0.00003
	(!CK * SE * SI * !SN)	-0.00002	-0.00002	-0.00002
	(!CK * SE * SI * !SN)	-0.00026	-0.00025	-0.00024
	(!CK * SE * !SI * SN)	0.00012	0.00012	0.00013
	(!CK * SE * !SI * SN)	0.00003	0.00003	0.00003
	(!CK * SE * !SI * SN)	-0.00002	-0.00002	-0.00001
	(!CK * SE * !SI * SN)	-0.00026	-0.00025	-0.00024
	(!CK * SE * !SI * !SN)	0.00012	0.00012	0.00013
	(!CK * SE * !SI * !SN)	0.00003	0.00003	0.00003
	(!CK * SE * !SI * !SN)	-0.00002	-0.00002	-0.00001
	(!CK * SE * !SI * !SN)	-0.00026	-0.00025	-0.00024
	(!CK * !SE * SI * SN)	0.00269	0.00270	0.00272
	(!CK * !SE * SI * SN)	-0.00010	-0.00010	-0.00009
	(!CK * !SE * SI * SN)	0.00007	0.00008	0.00009
	(!CK * !SE * SI * SN)	0.00166	0.00168	0.00171
	(!CK * !SE * SI * !SN)	0.00173	0.00175	0.00177
	(!CK * !SE * SI * !SN)	-0.00001	-0.00001	-0.00000
	(!CK * !SE * SI * !SN)	0.00000	0.00000	0.00001
	(!CK * !SE * SI * !SN)	0.00090	0.00091	0.00092
	(!CK * !SE * !SI * SN)	0.00269	0.00270	0.00272
	(!CK * !SE * !SI * SN)	-0.00010	-0.00010	-0.00009
	(!CK * !SE * !SI * SN)	0.00007	0.00008	0.00009
	(!CK * !SE * !SI * SN)	0.00166	0.00168	0.00171
	(!CK * !SE * !SI * !SN)	0.00173	0.00175	0.00177
	(!CK * !SE * !SI * !SN)	-0.00001	-0.00001	-0.00000
	(!CK * !SE * !SI * !SN)	0.00000	0.00000	0.00001
	(!CK * !SE * !SI * !SN)	0.00090	0.00091	0.00093

Passive power(pJ) for SE rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFSQX3H7H	**(CK * D * SI * SN)**	-0.00015	-0.00013	-0.00009
	(CK * D * SI * SN)	0.00001	0.00001	0.00001
	(CK * D * SI * SN)	-0.00003	-0.00002	-0.00001
	(CK * D * SI * SN)	0.00110	0.00112	0.00114
	(CK * D * SI * !SN)	-0.00015	-0.00013	-0.00009
	(CK * D * SI * !SN)	0.00001	0.00001	0.00001
	(CK * D * SI * !SN)	-0.00003	-0.00002	-0.00001
	(CK * D * SI * !SN)	0.00110	0.00112	0.00114
	(CK * D * !SI * SN)	0.00122	0.00127	0.00134
	(CK * D * !SI * SN)	-0.00012	-0.00010	-0.00009
	(CK * D * !SI * SN)	0.00004	0.00006	0.00007
	(CK * D * !SI * SN)	0.00194	0.00199	0.00206
	(CK * D * !SI * !SN)	0.00122	0.00127	0.00132
	(CK * D * !SI * !SN)	-0.00010	-0.00009	-0.00008
	(CK * D * !SI * !SN)	0.00005	0.00006	0.00008
	(CK * D * !SI * !SN)	0.00195	0.00199	0.00205
	(CK * !D * SI * SN)	-0.00020	-0.00015	-0.00008
	(CK * !D * SI * SN)	0.00012	0.00012	0.00013
	(CK * !D * SI * SN)	-0.00012	-0.00012	-0.00010
	(CK * !D * SI * SN)	0.00160	0.00165	0.00170
	(CK * !D * SI * !SN)	-0.00020	-0.00015	-0.00009
	(CK * !D * SI * !SN)	0.00012	0.00012	0.00013
	(CK * !D * SI * !SN)	-0.00012	-0.00012	-0.00011
	(CK * !D * SI * !SN)	0.00161	0.00166	0.00173
	(CK * !D * !SI * SN)	-0.00015	-0.00012	-0.00008
	(CK * !D * !SI * SN)	0.00001	0.00002	0.00003
	(CK * !D * !SI * SN)	-0.00003	-0.00003	-0.00003
	(CK * !D * !SI * SN)	0.00113	0.00115	0.00118
	(CK * !D * !SI * !SN)	-0.00015	-0.00012	-0.00008
	(CK * !D * !SI * !SN)	0.00001	0.00002	0.00003
	(CK * !D * !SI * !SN)	-0.00003	-0.00003	-0.00003
	(CK * !D * !SI * !SN)	0.00113	0.00115	0.00119
	(!CK * D * SI * SN)	-0.00015	-0.00013	-0.00008
	(!CK * D * SI * SN)	0.00000	0.00001	0.00001
	(!CK * D * SI * SN)	-0.00003	-0.00002	-0.00001
	(!CK * D * SI * SN)	0.00110	0.00112	0.00114
	(!CK * D * SI * !SN)	-0.00015	-0.00013	-0.00008
	(!CK * D * SI * !SN)	0.00000	0.00001	0.00001
	(!CK * D * SI * !SN)	-0.00002	-0.00002	-0.00001
	(!CK * D * SI * !SN)	0.00110	0.00112	0.00114
	(!CK * D * !SI * SN)	0.00248	0.00253	0.00260
	(!CK * D * !SI * SN)	-0.00006	-0.00006	-0.00005
	(!CK * D * !SI * SN)	0.00003	0.00004	0.00006
	(!CK * D * !SI * SN)	0.00327	0.00332	0.00337
	(!CK * D * !SI * !SN)	0.00153	0.00158	0.00164
	(!CK * D * !SI * !SN)	0.00003	0.00004	0.00005
	(!CK * D * !SI * !SN)	0.00000	0.00000	0.00000
	(!CK * D * !SI * !SN)	0.00251	0.00256	0.00263
	(!CK * !D * SI * SN)	0.00150	0.00155	0.00163
	(!CK * !D * SI * SN)	0.00008	0.00009	0.00009
	(!CK * !D * SI * SN)	-0.00010	-0.00009	-0.00008
	(!CK * !D * SI * SN)	0.00325	0.00330	0.00338
	(!CK * !D * SI * !SN)	0.00160	0.00165	0.00172
	(!CK * !D * SI * !SN)	0.00008	0.00009	0.00009
	(!CK * !D * SI * !SN)	-0.00002	-0.00001	0.00000
	(!CK * !D * SI * !SN)	0.00336	0.00341	0.00347
	(!CK * !D * !SI * SN)	-0.00015	-0.00012	-0.00008
	(!CK * !D * !SI * SN)	0.00002	0.00002	0.00004
	(!CK * !D * !SI * SN)	-0.00003	-0.00003	-0.00003
	(!CK * !D * !SI * SN)	0.00113	0.00115	0.00119
	(!CK * !D * !SI * !SN)	-0.00015	-0.00012	-0.00008
	(!CK * !D * !SI * !SN)	0.00002	0.00002	0.00002
	(!CK * !D * !SI * !SN)	-0.00003	-0.00003	-0.00003
	(!CK * !D * !SI * !SN)	0.00113	0.00115	0.00120

Passive power(pJ) for SE falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFSQX3H7H	**(CK * D * SI * SN)**	0.00107	0.00109	0.00112
	(CK * D * SI * SN)	-0.00001	-0.00000	0.00000
	(CK * D * SI * SN)	0.00002	0.00003	0.00003
	(CK * D * SI * SN)	-0.00018	-0.00016	-0.00011
	(CK * D * SI * !SN)	0.00107	0.00109	0.00113
	(CK * D * SI * !SN)	-0.00001	-0.00001	-0.00000
	(CK * D * SI * !SN)	0.00002	0.00003	0.00003
	(CK * D * SI * !SN)	-0.00018	-0.00016	-0.00012
	(CK * D * !SI * SN)	0.00147	0.00149	0.00151
	(CK * D * !SI * SN)	0.00009	0.00010	0.00012
	(CK * D * !SI * SN)	-0.00007	-0.00006	-0.00004
	(CK * D * !SI * SN)	0.00075	0.00077	0.00081
	(CK * D * !SI * !SN)	0.00148	0.00149	0.00152
	(CK * D * !SI * !SN)	0.00009	0.00010	0.00011
	(CK * D * !SI * !SN)	-0.00007	-0.00006	-0.00005
	(CK * D * !SI * !SN)	0.00075	0.00077	0.00082
	(CK * !D * SI * SN)	0.00195	0.00200	0.00205
	(CK * !D * SI * SN)	-0.00013	-0.00012	-0.00011
	(CK * !D * SI * SN)	0.00011	0.00012	0.00013
	(CK * !D * SI * SN)	0.00015	0.00019	0.00026
	(CK * !D * SI * !SN)	0.00195	0.00200	0.00207
	(CK * !D * SI * !SN)	-0.00013	-0.00012	-0.00012
	(CK * !D * SI * !SN)	0.00011	0.00012	0.00013
	(CK * !D * SI * !SN)	0.00015	0.00020	0.00026
	(CK * !D * !SI * SN)	0.00103	0.00106	0.00110
	(CK * !D * !SI * SN)	-0.00003	-0.00002	-0.00001
	(CK * !D * !SI * SN)	0.00003	0.00003	0.00004
	(CK * !D * !SI * SN)	-0.00024	-0.00022	-0.00019
	(CK * !D * !SI * !SN)	0.00103	0.00106	0.00110
	(CK * !D * !SI * !SN)	-0.00003	-0.00002	-0.00001
	(CK * !D * !SI * !SN)	0.00003	0.00003	0.00004
	(CK * !D * !SI * !SN)	-0.00024	-0.00022	-0.00019
	(!CK * D * SI * SN)	0.00107	0.00109	0.00112
	(!CK * D * SI * SN)	-0.00001	-0.00000	0.00000
	(!CK * D * SI * SN)	0.00002	0.00003	0.00004
	(!CK * D * SI * SN)	-0.00018	-0.00016	-0.00012
	(!CK * D * SI * !SN)	0.00107	0.00109	0.00112
	(!CK * D * SI * !SN)	-0.00001	-0.00000	0.00000
	(!CK * D * SI * !SN)	0.00002	0.00003	0.00004
	(!CK * D * SI * !SN)	-0.00018	-0.00016	-0.00013
	(!CK * D * !SI * SN)	0.00318	0.00320	0.00323
	(!CK * D * !SI * SN)	0.00005	0.00006	0.00006
	(!CK * D * !SI * SN)	-0.00006	-0.00004	-0.00003
	(!CK * D * !SI * SN)	0.00239	0.00241	0.00245
	(!CK * D * !SI * !SN)	0.00321	0.00325	0.00329
	(!CK * D * !SI * !SN)	0.00007	0.00008	0.00009
	(!CK * D * !SI * !SN)	0.00000	0.00000	0.00000
	(!CK * D * !SI * !SN)	0.00250	0.00253	0.00260
	(!CK * !D * SI * SN)	0.00322	0.00327	0.00332
	(!CK * !D * SI * SN)	-0.00009	-0.00008	-0.00007
	(!CK * !D * SI * SN)	0.00008	0.00010	0.00011
	(!CK * !D * SI * SN)	0.00148	0.00153	0.00161
	(!CK * !D * SI * !SN)	0.00227	0.00231	0.00236
	(!CK * !D * SI * !SN)	0.00001	0.00002	0.00004
	(!CK * !D * SI * !SN)	0.00000	0.00001	0.00002
	(!CK * !D * SI * !SN)	0.00072	0.00076	0.00082
	(!CK * !D * !SI * SN)	0.00103	0.00106	0.00109
	(!CK * !D * !SI * SN)	-0.00003	-0.00002	-0.00000
	(!CK * !D * !SI * SN)	0.00003	0.00003	0.00003
	(!CK * !D * !SI * SN)	-0.00024	-0.00022	-0.00018
	(!CK * !D * !SI * !SN)	0.00103	0.00106	0.00109
	(!CK * !D * !SI * !SN)	-0.00002	-0.00002	-0.00002
	(!CK * !D * !SI * !SN)	0.00003	0.00003	0.00003
	(!CK * !D * !SI * !SN)	-0.00024	-0.00022	-0.00018

Passive power(pJ) for SI rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFSQX3H7H	**(CK * D * SE * SN)**	0.00001	0.00002	0.00004
	(CK * D * SE * SN)	0.00011	0.00011	0.00011
	(CK * D * SE * SN)	-0.00011	-0.00010	-0.00010
	(CK * D * SE * SN)	0.00103	0.00105	0.00108
	(CK * D * SE * !SN)	0.00001	0.00002	0.00004
	(CK * D * SE * !SN)	0.00011	0.00011	0.00012
	(CK * D * SE * !SN)	-0.00010	-0.00010	-0.00010
	(CK * D * SE * !SN)	0.00103	0.00105	0.00108
	(CK * D * !SE * SN)	-0.00011	-0.00011	-0.00010
	(CK * D * !SE * SN)	-0.00002	-0.00002	-0.00001
	(CK * D * !SE * SN)	0.00001	0.00001	0.00002
	(CK * D * !SE * SN)	0.00027	0.00027	0.00027
	(CK * D * !SE * !SN)	-0.00011	-0.00011	-0.00010
	(CK * D * !SE * !SN)	-0.00002	-0.00002	-0.00001
	(CK * D * !SE * !SN)	0.00001	0.00001	0.00002
	(CK * D * !SE * !SN)	0.00027	0.00027	0.00027
	(CK * !D * SE * SN)	0.00001	0.00002	0.00004
	(CK * !D * SE * SN)	0.00011	0.00011	0.00012
	(CK * !D * SE * SN)	-0.00011	-0.00010	-0.00010
	(CK * !D * SE * SN)	0.00103	0.00105	0.00108
	(CK * !D * SE * !SN)	0.00001	0.00002	0.00004
	(CK * !D * SE * !SN)	0.00011	0.00011	0.00012
	(CK * !D * SE * !SN)	-0.00010	-0.00010	-0.00009
	(CK * !D * SE * !SN)	0.00103	0.00105	0.00106
	(CK * !D * !SE * SN)	-0.00017	-0.00017	-0.00016
	(CK * !D * !SE * SN)	-0.00002	-0.00002	-0.00002
	(CK * !D * !SE * SN)	0.00001	0.00001	0.00002
	(CK * !D * !SE * SN)	0.00021	0.00021	0.00022
	(CK * !D * !SE * !SN)	-0.00017	-0.00017	-0.00016
	(CK * !D * !SE * !SN)	-0.00002	-0.00002	-0.00002
	(CK * !D * !SE * !SN)	0.00001	0.00001	0.00002
	(CK * !D * !SE * !SN)	0.00021	0.00021	0.00022
	(!CK * D * SE * SN)	0.00170	0.00172	0.00174
	(!CK * D * SE * SN)	0.00007	0.00007	0.00008
	(!CK * D * SE * SN)	-0.00009	-0.00008	-0.00007
	(!CK * D * SE * SN)	0.00266	0.00269	0.00272
	(!CK * D * SE * !SN)	0.00178	0.00180	0.00182
	(!CK * D * SE * !SN)	0.00007	0.00007	0.00007
	(!CK * D * SE * !SN)	0.00000	0.00000	0.00000
	(!CK * D * SE * !SN)	0.00274	0.00276	0.00279
	(!CK * D * !SE * SN)	-0.00011	-0.00011	-0.00010
	(!CK * D * !SE * SN)	-0.00002	-0.00002	-0.00001
	(!CK * D * !SE * SN)	0.00001	0.00001	0.00002
	(!CK * D * !SE * SN)	0.00027	0.00027	0.00027
	(!CK * D * !SE * !SN)	-0.00011	-0.00011	-0.00010
	(!CK * D * !SE * !SN)	-0.00002	-0.00002	-0.00001
	(!CK * D * !SE * !SN)	0.00001	0.00001	0.00001
	(!CK * D * !SE * !SN)	0.00027	0.00027	0.00027
	(!CK * !D * SE * SN)	0.00170	0.00172	0.00174
	(!CK * !D * SE * SN)	0.00007	0.00008	0.00008
	(!CK * !D * SE * SN)	-0.00008	-0.00008	-0.00007
	(!CK * !D * SE * SN)	0.00266	0.00269	0.00272
	(!CK * !D * SE * !SN)	0.00180	0.00182	0.00184
	(!CK * !D * SE * !SN)	0.00004	0.00005	0.00005
	(!CK * !D * SE * !SN)	0.00000	0.00000	0.00000
	(!CK * !D * SE * !SN)	0.00273	0.00276	0.00278
	(!CK * !D * !SE * SN)	-0.00017	-0.00017	-0.00016
	(!CK * !D * !SE * SN)	-0.00002	-0.00002	-0.00002
	(!CK * !D * !SE * SN)	0.00001	0.00001	0.00002
	(!CK * !D * !SE * SN)	0.00021	0.00021	0.00021
	(!CK * !D * !SE * !SN)	-0.00017	-0.00017	-0.00016
	(!CK * !D * !SE * !SN)	-0.00002	-0.00002	-0.00002
	(!CK * !D * !SE * !SN)	0.00001	0.00001	0.00002
	(!CK * !D * !SE * !SN)	0.00021	0.00021	0.00021

Passive power(pJ) for SI falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFSQX3H7H	**(CK * D * SE * SN)**	0.00152	0.00155	0.00158
	(CK * D * SE * SN)	-0.00011	-0.00011	-0.00011
	(CK * D * SE * SN)	0.00010	0.00010	0.00011
	(CK * D * SE * SN)	0.00050	0.00052	0.00055
	(CK * D * SE * !SN)	0.00152	0.00155	0.00158
	(CK * D * SE * !SN)	-0.00012	-0.00011	-0.00011
	(CK * D * SE * !SN)	0.00010	0.00010	0.00010
	(CK * D * SE * !SN)	0.00051	0.00052	0.00055
	(CK * D * !SE * SN)	0.00011	0.00012	0.00012
	(CK * D * !SE * SN)	0.00001	0.00002	0.00002
	(CK * D * !SE * SN)	-0.00002	-0.00001	-0.00001
	(CK * D * !SE * SN)	-0.00027	-0.00024	-0.00015
	(CK * D * !SE * !SN)	0.00011	0.00012	0.00012
	(CK * D * !SE * !SN)	0.00001	0.00002	0.00002
	(CK * D * !SE * !SN)	-0.00002	-0.00001	-0.00001
	(CK * D * !SE * !SN)	-0.00027	-0.00024	-0.00015
	(CK * !D * SE * SN)	0.00152	0.00154	0.00157
	(CK * !D * SE * SN)	-0.00012	-0.00011	-0.00011
	(CK * !D * SE * SN)	0.00010	0.00010	0.00011
	(CK * !D * SE * SN)	0.00050	0.00052	0.00055
	(CK * !D * SE * !SN)	0.00152	0.00155	0.00157
	(CK * !D * SE * !SN)	-0.00012	-0.00011	-0.00011
	(CK * !D * SE * !SN)	0.00009	0.00010	0.00010
	(CK * !D * SE * !SN)	0.00051	0.00053	0.00055
	(CK * !D * !SE * SN)	0.00017	0.00018	0.00018
	(CK * !D * !SE * SN)	0.00002	0.00002	0.00002
	(CK * !D * !SE * SN)	-0.00001	-0.00001	-0.00001
	(CK * !D * !SE * SN)	-0.00021	-0.00020	-0.00020
	(CK * !D * !SE * !SN)	0.00017	0.00018	0.00018
	(CK * !D * !SE * !SN)	0.00002	0.00002	0.00002
	(CK * !D * !SE * !SN)	-0.00002	-0.00001	-0.00001
	(CK * !D * !SE * !SN)	-0.00021	-0.00020	-0.00019
	(!CK * D * SE * SN)	0.00276	0.00281	0.00285
	(!CK * D * SE * SN)	-0.00008	-0.00007	-0.00007
	(!CK * D * SE * SN)	0.00007	0.00008	0.00009
	(!CK * D * SE * SN)	0.00180	0.00185	0.00187
	(!CK * D * SE * !SN)	0.00183	0.00186	0.00189
	(!CK * D * SE * !SN)	0.00002	0.00002	0.00002
	(!CK * D * SE * !SN)	0.00000	0.00000	0.00000
	(!CK * D * SE * !SN)	0.00106	0.00109	0.00111
	(!CK * D * !SE * SN)	0.00011	0.00012	0.00012
	(!CK * D * !SE * SN)	0.00001	0.00002	0.00002
	(!CK * D * !SE * SN)	-0.00002	-0.00001	-0.00001
	(!CK * D * !SE * SN)	-0.00027	-0.00025	-0.00015
	(!CK * D * !SE * !SN)	0.00011	0.00012	0.00012
	(!CK * D * !SE * !SN)	0.00001	0.00002	0.00002
	(!CK * D * !SE * !SN)	-0.00001	-0.00001	-0.00001
	(!CK * D * !SE * !SN)	-0.00027	-0.00024	-0.00015
	(!CK * !D * SE * SN)	0.00275	0.00281	0.00285
	(!CK * !D * SE * SN)	-0.00008	-0.00008	-0.00007
	(!CK * !D * SE * SN)	0.00007	0.00008	0.00009
	(!CK * !D * SE * SN)	0.00180	0.00185	0.00187
	(!CK * !D * SE * !SN)	0.00183	0.00186	0.00189
	(!CK * !D * SE * !SN)	0.00002	0.00002	0.00002
	(!CK * !D * SE * !SN)	0.00000	0.00000	0.00000
	(!CK * !D * SE * !SN)	0.00106	0.00109	0.00112
	(!CK * !D * !SE * SN)	0.00017	0.00018	0.00018
	(!CK * !D * !SE * SN)	0.00002	0.00002	0.00002
	(!CK * !D * !SE * SN)	-0.00002	-0.00001	-0.00001
	(!CK * !D * !SE * SN)	-0.00021	-0.00020	-0.00018
	(!CK * !D * !SE * !SN)	0.00017	0.00018	0.00018
	(!CK * !D * !SE * !SN)	0.00002	0.00002	0.00002
	(!CK * !D * !SE * !SN)	-0.00001	-0.00001	-0.00001
	(!CK * !D * !SE * !SN)	-0.00021	-0.00020	-0.00019

Passive power(pJ) for SN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFSQX3H7H	**(CK * D * SE * SI)**	-0.00001	0.00002	0.00005
	(CK * D * SE * SI)	0.00003	0.00004	0.00004
	(CK * D * SE * SI)	-0.00003	-0.00003	-0.00002
	(CK * D * SE * SI)	0.00072	0.00074	0.00077
	(CK * D * SE * !SI)	-0.00001	0.00002	0.00005
	(CK * D * SE * !SI)	0.00003	0.00004	0.00004
	(CK * D * SE * !SI)	-0.00003	-0.00003	-0.00003
	(CK * D * SE * !SI)	0.00072	0.00074	0.00077
	(CK * D * !SE * SI)	-0.00001	0.00002	0.00005
	(CK * D * !SE * SI)	0.00003	0.00004	0.00004
	(CK * D * !SE * SI)	-0.00003	-0.00003	-0.00002
	(CK * D * !SE * SI)	0.00072	0.00074	0.00077
	(CK * D * !SE * !SI)	-0.00001	0.00002	0.00005
	(CK * D * !SE * !SI)	0.00003	0.00004	0.00004
	(CK * D * !SE * !SI)	-0.00003	-0.00003	-0.00002
	(CK * D * !SE * !SI)	0.00072	0.00074	0.00077
	(CK * !D * SE * SI)	-0.00001	0.00002	0.00005
	(CK * !D * SE * SI)	0.00003	0.00004	0.00004
	(CK * !D * SE * SI)	-0.00003	-0.00003	-0.00002
	(CK * !D * SE * SI)	0.00072	0.00074	0.00077
	(CK * !D * SE * !SI)	-0.00001	0.00002	0.00005
	(CK * !D * SE * !SI)	0.00003	0.00004	0.00004
	(CK * !D * SE * !SI)	-0.00003	-0.00003	-0.00003
	(CK * !D * SE * !SI)	0.00072	0.00074	0.00077
	(CK * !D * !SE * SI)	-0.00001	0.00002	0.00005
	(CK * !D * !SE * SI)	0.00003	0.00004	0.00004
	(CK * !D * !SE * SI)	-0.00003	-0.00003	-0.00003
	(CK * !D * !SE * SI)	0.00072	0.00074	0.00077
	(CK * !D * !SE * !SI)	-0.00001	0.00002	0.00005
	(CK * !D * !SE * !SI)	0.00003	0.00004	0.00004
	(CK * !D * !SE * !SI)	-0.00003	-0.00003	-0.00003
	(CK * !D * !SE * !SI)	0.00072	0.00074	0.00077
	(!CK * D * SE * SI)	-0.00000	0.00002	0.00006
	(!CK * D * SE * SI)	0.00003	0.00004	0.00005
	(!CK * D * SE * SI)	-0.00003	-0.00003	-0.00002
	(!CK * D * SE * SI)	0.00072	0.00075	0.00078
	(!CK * D * SE * !SI)	0.00103	0.00105	0.00108
	(!CK * D * SE * !SI)	0.00000	0.00000	0.00000
	(!CK * D * SE * !SI)	0.00002	0.00002	0.00002
	(!CK * D * SE * !SI)	0.00157	0.00159	0.00161
	(!CK * D * !SE * SI)	-0.00000	0.00002	0.00006
	(!CK * D * !SE * SI)	0.00003	0.00004	0.00005
	(!CK * D * !SE * SI)	-0.00003	-0.00003	-0.00002
	(!CK * D * !SE * SI)	0.00072	0.00075	0.00078
	(!CK * D * !SE * !SI)	-0.00000	0.00002	0.00006
	(!CK * D * !SE * !SI)	0.00003	0.00004	0.00005
	(!CK * D * !SE * !SI)	-0.00003	-0.00003	-0.00002
	(!CK * D * !SE * !SI)	0.00072	0.00075	0.00078
	(!CK * !D * SE * SI)	-0.00000	0.00002	0.00006
	(!CK * !D * SE * SI)	0.00003	0.00004	0.00005
	(!CK * !D * SE * SI)	-0.00003	-0.00003	-0.00002
	(!CK * !D * SE * SI)	0.00072	0.00075	0.00078
	(!CK * !D * SE * !SI)	0.00103	0.00105	0.00108
	(!CK * !D * SE * !SI)	0.00000	0.00000	0.00000
	(!CK * !D * SE * !SI)	0.00002	0.00002	0.00002
	(!CK * !D * SE * !SI)	0.00157	0.00159	0.00161
	(!CK * !D * !SE * SI)	0.00103	0.00105	0.00108
	(!CK * !D * !SE * SI)	0.00000	0.00000	0.00000
	(!CK * !D * !SE * SI)	0.00002	0.00002	0.00002
	(!CK * !D * !SE * SI)	0.00157	0.00159	0.00161
	(!CK * !D * !SE * !SI)	0.00103	0.00105	0.00108
	(!CK * !D * !SE * !SI)	0.00000	0.00000	0.00000
	(!CK * !D * !SE * !SI)	0.00002	0.00002	0.00002
	(!CK * !D * !SE * !SI)	0.00157	0.00159	0.00161

Passive power(pJ) for SN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFSQX3H7H	**(CK * D * SE * SI)**	0.00081	0.00083	0.00086
	(CK * D * SE * SI)	-0.00004	-0.00004	-0.00003
	(CK * D * SE * SI)	0.00003	0.00003	0.00003
	(CK * D * SE * SI)	0.00009	0.00011	0.00014
	(CK * D * SE * !SI)	0.00081	0.00083	0.00086
	(CK * D * SE * !SI)	-0.00004	-0.00004	-0.00003
	(CK * D * SE * !SI)	0.00003	0.00003	0.00003
	(CK * D * SE * !SI)	0.00009	0.00011	0.00014
	(CK * D * !SE * SI)	0.00081	0.00083	0.00086
	(CK * D * !SE * SI)	-0.00004	-0.00004	-0.00003
	(CK * D * !SE * SI)	0.00003	0.00003	0.00003
	(CK * D * !SE * SI)	0.00009	0.00011	0.00014
	(CK * D * !SE * !SI)	0.00081	0.00083	0.00086
	(CK * D * !SE * !SI)	-0.00004	-0.00004	-0.00003
	(CK * D * !SE * !SI)	0.00003	0.00003	0.00003
	(CK * D * !SE * !SI)	0.00009	0.00011	0.00014
	(CK * !D * SE * SI)	0.00081	0.00083	0.00086
	(CK * !D * SE * SI)	-0.00004	-0.00004	-0.00003
	(CK * !D * SE * SI)	0.00003	0.00003	0.00003
	(CK * !D * SE * SI)	0.00009	0.00011	0.00014
	(CK * !D * SE * !SI)	0.00081	0.00083	0.00086
	(CK * !D * SE * !SI)	-0.00004	-0.00004	-0.00003
	(CK * !D * SE * !SI)	0.00003	0.00003	0.00003
	(CK * !D * SE * !SI)	0.00009	0.00011	0.00014
	(CK * !D * !SE * SI)	0.00081	0.00083	0.00086
	(CK * !D * !SE * SI)	-0.00004	-0.00004	-0.00003
	(CK * !D * !SE * SI)	0.00003	0.00003	0.00003
	(CK * !D * !SE * SI)	0.00009	0.00011	0.00014
	(CK * !D * !SE * !SI)	0.00081	0.00083	0.00086
	(CK * !D * !SE * !SI)	-0.00004	-0.00004	-0.00003
	(CK * !D * !SE * !SI)	0.00003	0.00003	0.00003
	(CK * !D * !SE * !SI)	0.00009	0.00011	0.00014
	(!CK * D * SE * SI)	0.00081	0.00083	0.00085
	(!CK * D * SE * SI)	-0.00005	-0.00004	-0.00003
	(!CK * D * SE * SI)	0.00002	0.00003	0.00003
	(!CK * D * SE * SI)	0.00008	0.00010	0.00013
	(!CK * D * SE * !SI)	0.00082	0.00084	0.00087
	(!CK * D * SE * !SI)	0.00000	0.00000	0.00000
	(!CK * D * SE * !SI)	0.00002	0.00003	0.00003
	(!CK * D * SE * !SI)	0.00010	0.00012	0.00015
	(!CK * D * !SE * SI)	0.00081	0.00083	0.00085
	(!CK * D * !SE * SI)	-0.00005	-0.00004	-0.00003
	(!CK * D * !SE * SI)	0.00002	0.00003	0.00003
	(!CK * D * !SE * SI)	0.00008	0.00010	0.00013
	(!CK * D * !SE * !SI)	0.00081	0.00083	0.00085
	(!CK * D * !SE * !SI)	-0.00005	-0.00004	-0.00003
	(!CK * D * !SE * !SI)	0.00002	0.00003	0.00003
	(!CK * D * !SE * !SI)	0.00008	0.00010	0.00013
	(!CK * !D * SE * SI)	0.00081	0.00083	0.00085
	(!CK * !D * SE * SI)	-0.00005	-0.00004	-0.00003
	(!CK * !D * SE * SI)	0.00002	0.00003	0.00003
	(!CK * !D * SE * SI)	0.00008	0.00010	0.00013
	(!CK * !D * SE * !SI)	0.00082	0.00084	0.00087
	(!CK * !D * SE * !SI)	0.00000	0.00000	0.00000
	(!CK * !D * SE * !SI)	0.00002	0.00003	0.00003
	(!CK * !D * SE * !SI)	0.00010	0.00012	0.00015
	(!CK * !D * !SE * SI)	0.00082	0.00085	0.00087
	(!CK * !D * !SE * SI)	0.00000	0.00000	0.00000
	(!CK * !D * !SE * SI)	0.00002	0.00003	0.00003
	(!CK * !D * !SE * SI)	0.00010	0.00012	0.00015
	(!CK * !D * !SE * !SI)	0.00082	0.00085	0.00087
	(!CK * !D * !SE * !SI)	0.00000	0.00000	0.00000
	(!CK * !D * !SE * !SI)	0.00002	0.00003	0.00003
	(!CK * !D * !SE * !SI)	0.00010	0.00012	0.00015

SDFFSX0P5H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Scan D Flip-Flop with Async Set
Q = !SN ? 1 : rising(CK) ? (SE&SI| !SE&D) : pre_Q
QN = !Q

Truth Table

INPUT					OUTPUT	
CK	D	SE	SI	SN	Q	QN
R	0	0	x	1	0	1
R	x	1	0	1	0	1
R	x	1	1	1	1	0
R	1	0	x	1	1	0
x	x	x	x	0	1	0
x	x	x	x	1	IQ	IQN

Footprint

Cell Name	Area
SDFFSX0P5H7H	11.48000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)	
	CK	D	SE	SI	SN	Q	QN
SDFFSX0P5H7H	0.00134	0.00089	0.00220	0.00087	0.00087	0.04286	0.04237

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
SDFFSX0P5H7H	0.00000	0.09037	0.10166

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFSX0P5H7H	CK->Q (RR)	(SE * SN)	0.20306	0.38157	0.82439
	CK->Q (RR)	(!SE * SN)	0.20308	0.38161	0.82429
	SN->Q (FR)	(CK * D * SE * SI)	0.17314	0.36539	0.85508
	SN->Q (FR)	(CK * D * SE * !SI)	0.17320	0.36540	0.85507
	SN->Q (FR)	(CK * D * !SE * SI)	0.17319	0.36539	0.85508
	SN->Q (FR)	(CK * D * !SE * !SI)	0.17320	0.36539	0.85508
	SN->Q (FR)	(CK * !D * SE * SI)	0.17319	0.36539	0.85508
	SN->Q (FR)	(CK * !D * SE * !SI)	0.17323	0.36540	0.85507
	SN->Q (FR)	(CK * !D * !SE * SI)	0.17311	0.36539	0.85507
	SN->Q (FR)	(CK * !D * !SE * !SI)	0.17321	0.36539	0.85507
	SN->Q (FR)	(!CK * D * SE * SI)	0.15301	0.34093	0.81617
	SN->Q (FR)	(!CK * D * SE * !SI)	0.16176	0.35239	0.83769
	SN->Q (FR)	(!CK * D * !SE * SI)	0.15299	0.34093	0.81617
	SN->Q (FR)	(!CK * D * !SE * !SI)	0.15299	0.34093	0.81617
	SN->Q (FR)	(!CK * !D * SE * SI)	0.15301	0.34093	0.81617
	SN->Q (FR)	(!CK * !D * SE * !SI)	0.16176	0.35239	0.83769
	SN->Q (FR)	(!CK * !D * !SE * SI)	0.16176	0.35237	0.83770
	SN->Q (FR)	(!CK * !D * !SE * !SI)	0.16176	0.35237	0.83770

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFSX0P5H7H	CK->Q (RF)	(SE * SN)	0.23652	0.38913	0.75284
	CK->Q (RF)	(!SE * SN)	0.23653	0.38913	0.75290

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFSX0P5H7H	CK->QN (RR)	(SE * SN)	0.17392	0.36895	0.81807
	CK->QN (RR)	(!SE * SN)	0.17392	0.36894	0.81797

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFSX0P5H7H	CK->QN (RF)	(SE * SN)	0.14121	0.30937	0.68520
	CK->QN (RF)	(!SE * SN)	0.14123	0.30942	0.68525
	SN->QN (FF)	(CK * D * SE * SI)	0.10770	0.29645	0.74047
	SN->QN (FF)	(CK * D * SE * !SI)	0.10776	0.29646	0.74044
	SN->QN (FF)	(CK * D * !SE * SI)	0.10774	0.29645	0.74047
	SN->QN (FF)	(CK * D * !SE * !SI)	0.10773	0.29645	0.74047
	SN->QN (FF)	(CK * !D * SE * SI)	0.10775	0.29646	0.74047
	SN->QN (FF)	(CK * !D * SE * !SI)	0.10779	0.29645	0.74045
	SN->QN (FF)	(CK * !D * !SE * SI)	0.10768	0.29646	0.74038
	SN->QN (FF)	(CK * !D * !SE * !SI)	0.10776	0.29646	0.74039
	SN->QN (FF)	(!CK * D * SE * SI)	0.09488	0.26581	0.67466
	SN->QN (FF)	(!CK * D * SE * !SI)	0.10282	0.27716	0.69522
	SN->QN (FF)	(!CK * D * !SE * SI)	0.09486	0.26581	0.67466
	SN->QN (FF)	(!CK * D * !SE * !SI)	0.09486	0.26581	0.67466
	SN->QN (FF)	(!CK * !D * SE * SI)	0.09488	0.26581	0.67466
	SN->QN (FF)	(!CK * !D * SE * !SI)	0.10282	0.27716	0.69516
	SN->QN (FF)	(!CK * !D * !SE * SI)	0.10283	0.27714	0.69519
	SN->QN (FF)	(!CK * !D * !SE * !SI)	0.10283	0.27714	0.69525

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
SDFFSX0P5H7H	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSX0P5H7H	**hold**	**CK (R)**	-0.22214	-0.07956	0.02564
	setup	**CK (R)**	0.02743	0.15244	0.34562

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSX0P5H7H	**hold**	**CK (R)**	-0.23530	-0.04962	0.12638
	setup	**CK (R)**	-0.05328	0.15038	0.38428

Constraints(ns) for SE rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSX0P5H7H	**hold**	**CK (R)**	-0.17372	-0.04715	0.09785
	setup	**CK (R)**	0.02650	0.17281	0.33594

Constraints(ns) for SE falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSX0P5H7H	**hold**	**CK (R)**	-0.16576	-0.02296	0.14349
	setup	**CK (R)**	0.05371	0.17006	0.35677

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSX0P5H7H	hold	CK (R)	-0.23299	-0.08569	0.02012
	setup	CK (R)	0.03798	0.16307	0.36017

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSX0P5H7H	hold	CK (R)	-0.24581	-0.06073	0.11155
	setup	CK (R)	-0.03425	0.16789	0.40427

Constraints(ns) for SN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSX0P5H7H	recovery	CK (R)	-0.24184	-0.03019	0.21195
	removal	CK (R)	0.12759	0.20608	0.36898

Min Pulse Width (ns) for SN:

Cell Name	High	Low
SDFFSX0P5H7H	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

SDFFSX0P5H7H	CK	(SE * SN)	0.00230	0.00239	0.00246
	CK	(SE * SN)	-0.00003	-0.00003	-0.00002
	CK	(SE * SN)	0.00001	0.00001	0.00003
	CK	(SE * SN)	0.00270	0.00278	0.00286
	CK	(!SE * SN)	0.00230	0.00239	0.00246
	CK	(!SE * SN)	-0.00003	-0.00003	-0.00002
	CK	(!SE * SN)	0.00000	0.00001	0.00001
	CK	(!SE * SN)	0.00270	0.00278	0.00286
	SN	(CK * D * SE * SI)	0.00237	0.00245	0.00252
	SN	(CK * D * SE * SI)	-0.00002	-0.00002	-0.00002
	SN	(CK * D * SE * SI)	0.00002	0.00002	0.00002
	SN	(CK * D * SE * SI)	0.00204	0.00213	0.00219
	SN	(CK * D * SE * !SI)	0.00239	0.00248	0.00255
	SN	(CK * D * SE * !SI)	-0.00002	-0.00002	-0.00002
	SN	(CK * D * SE * !SI)	0.00002	0.00002	0.00002
	SN	(CK * D * SE * !SI)	0.00207	0.00215	0.00222
	SN	(CK * D * !SE * SI)	0.00237	0.00245	0.00252
	SN	(CK * D * !SE * SI)	-0.00002	-0.00002	-0.00002
	SN	(CK * D * !SE * SI)	0.00001	0.00002	0.00002
	SN	(CK * D * !SE * SI)	0.00204	0.00213	0.00219
	SN	(CK * D * !SE * !SI)	0.00237	0.00245	0.00252
	SN	(CK * D * !SE * !SI)	-0.00002	-0.00002	-0.00002
	SN	(CK * D * !SE * !SI)	0.00001	0.00002	0.00002
	SN	(CK * D * !SE * !SI)	0.00204	0.00213	0.00219
	SN	(CK * !D * SE * SI)	0.00237	0.00245	0.00252
	SN	(CK * !D * SE * SI)	-0.00002	-0.00002	-0.00002
	SN	(CK * !D * SE * SI)	0.00002	0.00002	0.00002
	SN	(CK * !D * SE * SI)	0.00204	0.00213	0.00219
	SN	(CK * !D * SE * !SI)	0.00239	0.00248	0.00255
	SN	(CK * !D * SE * !SI)	-0.00002	-0.00002	-0.00002
	SN	(CK * !D * SE * !SI)	0.00002	0.00002	0.00002
	SN	(CK * !D * SE * !SI)	0.00207	0.00215	0.00222
	SN	(CK * !D * !SE * SI)	0.00239	0.00248	0.00255
	SN	(CK * !D * !SE * SI)	-0.00002	-0.00002	-0.00002
	SN	(CK * !D * !SE * SI)	0.00002	0.00002	0.00002
	SN	(CK * !D * !SE * SI)	0.00207	0.00215	0.00222
	SN	(CK * !D * !SE * !SI)	0.00239	0.00248	0.00255
	SN	(CK * !D * !SE * !SI)	-0.00002	-0.00002	-0.00002
	SN	(CK * !D * !SE * !SI)	0.00002	0.00002	0.00002
	SN	(CK * !D * !SE * !SI)	0.00207	0.00215	0.00222
	SN	(!CK * D * SE * SI)	0.00166	0.00173	0.00179
	SN	(!CK * D * SE * SI)	-0.00005	-0.00005	-0.00002
	SN	(!CK * D * SE * SI)	0.00003	0.00005	0.00006
	SN	(!CK * D * SE * SI)	0.00128	0.00135	0.00141
	SN	(!CK * D * SE * !SI)	0.00173	0.00178	0.00184
	SN	(!CK * D * SE * !SI)	-0.00006	-0.00006	-0.00004
	SN	(!CK * D * SE * !SI)	0.00005	0.00006	0.00006
	SN	(!CK * D * SE * !SI)	0.00131	0.00137	0.00143
	SN	(!CK * D * !SE * SI)	0.00166	0.00173	0.00179
	SN	(!CK * D * !SE * SI)	-0.00005	-0.00005	-0.00002
	SN	(!CK * D * !SE * SI)	0.00003	0.00005	0.00005
	SN	(!CK * D * !SE * SI)	0.00128	0.00135	0.00141
	SN	(!CK * D * !SE * !SI)	0.00166	0.00173	0.00179
	SN	(!CK * D * !SE * !SI)	-0.00005	-0.00005	-0.00002
	SN	(!CK * D * !SE * !SI)	0.00003	0.00005	0.00005
	SN	(!CK * D * !SE * !SI)	0.00128	0.00135	0.00141
	SN	(!CK * !D * SE * SI)	0.00166	0.00173	0.00179
	SN	(!CK * !D * SE * SI)	-0.00005	-0.00005	-0.00002
	SN	(!CK * !D * SE * SI)	0.00003	0.00005	0.00006
	SN	(!CK * !D * SE * SI)	0.00128	0.00135	0.00141
	SN	(!CK * !D * SE * !SI)	0.00173	0.00178	0.00184
	SN	(!CK * !D * SE * !SI)	-0.00008	-0.00006	-0.00004
	SN	(!CK * !D * SE * !SI)	0.00005	0.00006	0.00006
	SN	(!CK * !D * SE * !SI)	0.00131	0.00137	0.00143
	SN	(!CK * !D * !SE * SI)	0.00173	0.00178	0.00184
	SN	(!CK * !D * !SE * SI)	-0.00007	-0.00006	-0.00004
	SN	(!CK * !D * !SE * SI)	0.00005	0.00006	0.00007
	SN	(!CK * !D * !SE * SI)	0.00131	0.00137	0.00143
	SN	(!CK * !D * !SE * !SI)	0.00173	0.00178	0.00184
	SN	(!CK * !D * !SE * !SI)	-0.00007	-0.00006	-0.00004
	SN	(!CK * !D * !SE * !SI)	0.00005	0.00006	0.00007
	SN	(!CK * !D * !SE * !SI)	0.00131	0.00137	0.00143

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFSX0P5H7H	CK	(SE * SN)	0.00233	0.00238	0.00244
	CK	(SE * SN)	0.00002	0.00003	0.00003
	CK	(SE * SN)	-0.00002	-0.00001	-0.00001
	CK	(SE * SN)	0.00284	0.00289	0.00295
	CK	(!SE * SN)	0.00233	0.00238	0.00243
	CK	(!SE * SN)	0.00002	0.00003	0.00003
	CK	(!SE * SN)	-0.00001	-0.00001	0.00000
	CK	(!SE * SN)	0.00284	0.00289	0.00295

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFSX0P5H7H	CK	(SE * SN)	0.00232	0.00238	0.00243
	CK	(SE * SN)	0.00002	0.00003	0.00004
	CK	(SE * SN)	-0.00002	-0.00001	-0.00000
	CK	(SE * SN)	0.00284	0.00289	0.00294
	CK	(!SE * SN)	0.00233	0.00238	0.00243
	CK	(!SE * SN)	0.00003	0.00003	0.00004
	CK	(!SE * SN)	-0.00002	-0.00001	0.00000
	CK	(!SE * SN)	0.00284	0.00289	0.00296

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

SDFFSX0P5H7H	**CK**	**(SE * SN)**	0.00230	0.00239	0.00246
	CK	**(SE * SN)**	-0.00004	-0.00003	-0.00002
	CK	**(SE * SN)**	0.00000	0.00001	0.00002
	CK	**(SE * SN)**	0.00270	0.00278	0.00285
	CK	**(!SE * SN)**	0.00230	0.00239	0.00246
	CK	**(!SE * SN)**	-0.00004	-0.00003	-0.00003
	CK	**(!SE * SN)**	0.00000	0.00001	0.00002
	CK	**(!SE * SN)**	0.00270	0.00278	0.00285
	SN	**(CK * D * SE * SI)**	0.00237	0.00245	0.00252
	SN	**(CK * D * SE * SI)**	-0.00002	-0.00002	-0.00002
	SN	**(CK * D * SE * SI)**	-0.00000	0.00002	0.00003
	SN	**(CK * D * SE * SI)**	0.00204	0.00212	0.00219
	SN	**(CK * D * SE * !SI)**	0.00239	0.00248	0.00255
	SN	**(CK * D * SE * !SI)**	-0.00003	-0.00002	-0.00002
	SN	**(CK * D * SE * !SI)**	0.00000	0.00002	0.00003
	SN	**(CK * D * SE * !SI)**	0.00207	0.00215	0.00222
	SN	**(CK * D * !SE * SI)**	0.00237	0.00245	0.00252
	SN	**(CK * D * !SE * SI)**	-0.00002	-0.00002	-0.00002
	SN	**(CK * D * !SE * SI)**	0.00000	0.00002	0.00003
	SN	**(CK * D * !SE * SI)**	0.00204	0.00212	0.00219
	SN	**(CK * D * !SE * !SI)**	0.00237	0.00245	0.00252
	SN	**(CK * D * !SE * !SI)**	-0.00002	-0.00002	-0.00002
	SN	**(CK * D * !SE * !SI)**	0.00000	0.00002	0.00003
	SN	**(CK * D * !SE * !SI)**	0.00204	0.00212	0.00219
	SN	**(CK * !D * SE * SI)**	0.00237	0.00245	0.00252
	SN	**(CK * !D * SE * SI)**	-0.00002	-0.00002	-0.00002
	SN	**(CK * !D * SE * SI)**	0.00000	0.00002	0.00003
	SN	**(CK * !D * SE * SI)**	0.00204	0.00212	0.00219
	SN	**(CK * !D * SE * !SI)**	0.00239	0.00248	0.00255
	SN	**(CK * !D * SE * !SI)**	-0.00003	-0.00002	-0.00002
	SN	**(CK * !D * SE * !SI)**	0.00000	0.00002	0.00003
	SN	**(CK * !D * SE * !SI)**	0.00207	0.00215	0.00222
	SN	**(CK * !D * !SE * SI)**	0.00239	0.00248	0.00255
	SN	**(CK * !D * !SE * SI)**	-0.00003	-0.00002	-0.00000
	SN	**(CK * !D * !SE * SI)**	0.00000	0.00001	0.00003
	SN	**(CK * !D * !SE * SI)**	0.00207	0.00215	0.00222
	SN	**(CK * !D * !SE * !SI)**	0.00239	0.00248	0.00255
	SN	**(CK * !D * !SE * !SI)**	-0.00003	-0.00002	-0.00000
	SN	**(CK * !D * !SE * !SI)**	-0.00000	0.00001	0.00003
	SN	**(CK * !D * !SE * !SI)**	0.00207	0.00215	0.00222
	SN	**(!CK * D * SE * SI)**	0.00166	0.00173	0.00179
	SN	**(!CK * D * SE * SI)**	-0.00006	-0.00005	-0.00003
	SN	**(!CK * D * SE * SI)**	0.00003	0.00005	0.00005
	SN	**(!CK * D * SE * SI)**	0.00128	0.00135	0.00141
	SN	**(!CK * D * SE * !SI)**	0.00173	0.00178	0.00184
	SN	**(!CK * D * SE * !SI)**	-0.00006	-0.00006	-0.00004
	SN	**(!CK * D * SE * !SI)**	0.00005	0.00006	0.00007
	SN	**(!CK * D * SE * !SI)**	0.00131	0.00137	0.00143
	SN	**(!CK * D * !SE * SI)**	0.00166	0.00172	0.00179
	SN	**(!CK * D * !SE * SI)**	-0.00006	-0.00005	-0.00003
	SN	**(!CK * D * !SE * SI)**	0.00003	0.00004	0.00005
	SN	**(!CK * D * !SE * SI)**	0.00128	0.00135	0.00141
	SN	**(!CK * D * !SE * !SI)**	0.00166	0.00172	0.00179
	SN	**(!CK * D * !SE * !SI)**	-0.00006	-0.00005	-0.00003
	SN	**(!CK * D * !SE * !SI)**	0.00003	0.00004	0.00005
	SN	**(!CK * D * !SE * !SI)**	0.00128	0.00135	0.00141
	SN	**(!CK * !D * SE * SI)**	0.00166	0.00173	0.00179
	SN	**(!CK * !D * SE * SI)**	-0.00006	-0.00005	-0.00003
	SN	**(!CK * !D * SE * SI)**	0.00003	0.00005	0.00005
	SN	**(!CK * !D * SE * SI)**	0.00128	0.00135	0.00141
	SN	**(!CK * !D * SE * !SI)**	0.00173	0.00178	0.00184
	SN	**(!CK * !D * SE * !SI)**	-0.00006	-0.00006	-0.00004
	SN	**(!CK * !D * SE * !SI)**	0.00005	0.00006	0.00007
	SN	**(!CK * !D * SE * !SI)**	0.00131	0.00137	0.00143
	SN	**(!CK * !D * !SE * SI)**	0.00172	0.00178	0.00184
	SN	**(!CK * !D * !SE * SI)**	-0.00007	-0.00006	-0.00004
	SN	**(!CK * !D * !SE * SI)**	0.00004	0.00006	0.00007
	SN	**(!CK * !D * !SE * SI)**	0.00131	0.00137	0.00143
	SN	**(!CK * !D * !SE * !SI)**	0.00172	0.00178	0.00184
	SN	**(!CK * !D * !SE * !SI)**	-0.00007	-0.00006	-0.00004
	SN	**(!CK * !D * !SE * !SI)**	0.00004	0.00006	0.00007
	SN	**(!CK * !D * !SE * !SI)**	0.00131	0.00137	0.00143

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFSX0P5H7H	0.00363	0.00372	0.00380
	0.00001	0.00002	0.00003
	0.00003	0.00003	0.00004
	0.00448	0.00456	0.00466

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFSX0P5H7H	0.00445	0.00449	0.00453
	-0.00002	-0.00002	-0.00001
	-0.00001	-0.00000	0.00000
	0.00353	0.00357	0.00361

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFSX0P5H7H	0.00174	0.00175	0.00175
	0.00016	0.00016	0.00017
	-0.00013	-0.00012	-0.00012
	0.00289	0.00290	0.00291

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFSX0P5H7H	0.00289	0.00291	0.00292
	-0.00017	-0.00016	-0.00016
	0.00012	0.00013	0.00014
	0.00174	0.00175	0.00177

Passive power(pJ) for SE rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFSX0P5H7H	0.00269	0.00272	0.00276
	-0.00012	-0.00011	-0.00011
	0.00007	0.00008	0.00008
	0.00351	0.00354	0.00359

Passive power(pJ) for SE falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFSX0P5H7H	0.00311	0.00314	0.00317
	0.00015	0.00016	0.00019
	-0.00008	-0.00008	-0.00007
	0.00241	0.00244	0.00249

Passive power(pJ) for SI rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFSX0P5H7H	0.00150	0.00151	0.00153
	0.00014	0.00015	0.00016
	-0.00013	-0.00012	-0.00012
	0.00263	0.00265	0.00267

Passive power(pJ) for SI falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFSX0P5H7H	0.00310	0.00313	0.00315
	-0.00016	-0.00015	-0.00014
	0.00012	0.00012	0.00013
	0.00197	0.00199	0.00201

Passive power(pJ) for SN rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFSX0P5H7H	0.00046	0.00047	0.00047
	0.00003	0.00003	0.00004
	0.00000	0.00000	0.00000
	0.00126	0.00127	0.00128

Passive power(pJ) for SN falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFSX0P5H7H	0.00019	0.00020	0.00021
	0.00001	0.00001	0.00001
	0.00000	0.00000	0.00000
	-0.00031	-0.00030	-0.00027

SDFFSX1H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Scan D Flip-Flop with Async Set
Q = !SN ? 1 : rising(CK) ? (SE&SI| !SE&D) : pre_Q
QN = !Q

Truth Table

INPUT					OUTPUT	
CK	D	SE	SI	SN	Q	QN
R	0	0	x	1	0	1
R	x	1	0	1	0	1
R	x	1	1	1	1	0
R	1	0	x	1	1	0
x	x	x	x	0	1	0
x	x	x	x	1	IQ	IQN

Footprint

Cell Name	Area
SDFFSX1H7H	11.48000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)	
	CK	D	SE	SI	SN	Q	QN
SDFFSX1H7H	0.00134	0.00089	0.00220	0.00087	0.00087	0.05032	0.04971

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
SDFFSX1H7H	0.00000	0.09889	0.11488

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFSX1H7H	CK->Q (RR)	(SE * SN)	0.19848	0.37707	0.82058
	CK->Q (RR)	(!SE * SN)	0.19850	0.37713	0.82043
	SN->Q (FR)	(CK * D * SE * SI)	0.17407	0.36678	0.85823
	SN->Q (FR)	(CK * D * SE * !SI)	0.17407	0.36678	0.85823
	SN->Q (FR)	(CK * D * !SE * SI)	0.17407	0.36678	0.85823
	SN->Q (FR)	(CK * D * !SE * !SI)	0.17407	0.36678	0.85823
	SN->Q (FR)	(CK * !D * SE * SI)	0.17407	0.36678	0.85823
	SN->Q (FR)	(CK * !D * SE * !SI)	0.17407	0.36678	0.85823
	SN->Q (FR)	(CK * !D * !SE * SI)	0.17407	0.36678	0.85823
	SN->Q (FR)	(CK * !D * !SE * !SI)	0.17407	0.36678	0.85823
	SN->Q (FR)	(!CK * D * SE * SI)	0.15324	0.34153	0.81865
	SN->Q (FR)	(!CK * D * SE * !SI)	0.16224	0.35310	0.84032
	SN->Q (FR)	(!CK * D * !SE * SI)	0.15325	0.34153	0.81865
	SN->Q (FR)	(!CK * D * !SE * !SI)	0.15325	0.34153	0.81865
	SN->Q (FR)	(!CK * !D * SE * SI)	0.15324	0.34153	0.81865
	SN->Q (FR)	(!CK * !D * SE * !SI)	0.16231	0.35310	0.84032
	SN->Q (FR)	(!CK * !D * !SE * SI)	0.16224	0.35309	0.84033
	SN->Q (FR)	(!CK * !D * !SE * !SI)	0.16227	0.35309	0.84033

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFSX1H7H	CK->Q (RF)	(SE * SN)	0.23400	0.38830	0.75662
	CK->Q (RF)	(!SE * SN)	0.23399	0.38829	0.75655

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFSX1H7H	CK->QN (RR)	(SE * SN)	0.17192	0.36779	0.81739
	CK->QN (RR)	(!SE * SN)	0.17190	0.36779	0.81739

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFSX1H7H	CK->QN (RF)	(SE * SN)	0.13884	0.30909	0.68955
	CK->QN (RF)	(!SE * SN)	0.13886	0.30912	0.68943
	SN->QN (FF)	(CK * D * SE * SI)	0.10958	0.30248	0.75348
	SN->QN (FF)	(CK * D * SE * !SI)	0.10958	0.30249	0.75357
	SN->QN (FF)	(CK * D * !SE * SI)	0.10958	0.30248	0.75349
	SN->QN (FF)	(CK * D * !SE * !SI)	0.10958	0.30248	0.75345
	SN->QN (FF)	(CK * !D * SE * SI)	0.10958	0.30248	0.75348
	SN->QN (FF)	(CK * !D * SE * !SI)	0.10958	0.30249	0.75357
	SN->QN (FF)	(CK * !D * !SE * SI)	0.10958	0.30249	0.75357
	SN->QN (FF)	(CK * !D * !SE * !SI)	0.10958	0.30250	0.75357
	SN->QN (FF)	(!CK * D * SE * SI)	0.09615	0.27059	0.68623
	SN->QN (FF)	(!CK * D * SE * !SI)	0.10431	0.28198	0.70723
	SN->QN (FF)	(!CK * D * !SE * SI)	0.09616	0.27059	0.68624
	SN->QN (FF)	(!CK * D * !SE * !SI)	0.09616	0.27059	0.68624
	SN->QN (FF)	(!CK * !D * SE * SI)	0.09615	0.27059	0.68623
	SN->QN (FF)	(!CK * !D * SE * !SI)	0.10437	0.28199	0.70714
	SN->QN (FF)	(!CK * !D * !SE * SI)	0.10431	0.28198	0.70708
	SN->QN (FF)	(!CK * !D * !SE * !SI)	0.10433	0.28198	0.70708

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
SDFFSX1H7H	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSX1H7H	**hold**	**CK (R)**	-0.21716	-0.07630	0.02722
	setup	**CK (R)**	0.02887	0.15260	0.34760

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSX1H7H	**hold**	**CK (R)**	-0.23150	-0.04895	0.12483
	setup	**CK (R)**	-0.05218	0.15088	0.38778

Constraints(ns) for SE rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSX1H7H	**hold**	**CK (R)**	-0.16877	-0.04507	0.10092
	setup	**CK (R)**	0.02513	0.17351	0.33721

Constraints(ns) for SE falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSX1H7H	**hold**	**CK (R)**	-0.16703	-0.02235	0.14417
	setup	**CK (R)**	0.05431	0.17052	0.35715

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSX1H7H	hold	CK (R)	-0.22699	-0.08237	0.02355
	setup	CK (R)	0.03713	0.16331	0.36012

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSX1H7H	hold	CK (R)	-0.24352	-0.06030	0.10981
	setup	CK (R)	-0.03653	0.16845	0.40496

Constraints(ns) for SN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSX1H7H	recovery	CK (R)	-0.24513	-0.03061	0.21228
	removal	CK (R)	0.12707	0.20521	0.36871

Min Pulse Width (ns) for SN:

Cell Name	High	Low
SDFFSX1H7H	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

SDFFSX1H7H	**CK**	**(SE * SN)**	0.00237	0.00246	0.00253
	CK	**(SE * SN)**	-0.00003	-0.00003	-0.00003
	CK	**(SE * SN)**	0.00000	0.00001	0.00002
	CK	**(SE * SN)**	0.00276	0.00285	0.00293
	CK	**(!SE * SN)**	0.00237	0.00246	0.00253
	CK	**(!SE * SN)**	-0.00003	-0.00003	-0.00002
	CK	**(!SE * SN)**	0.00001	0.00001	0.00001
	CK	**(!SE * SN)**	0.00276	0.00285	0.00293
	SN	**(CK * D * SE * SI)**	0.00245	0.00254	0.00261
	SN	**(CK * D * SE * SI)**	-0.00002	-0.00002	-0.00002
	SN	**(CK * D * SE * SI)**	0.00001	0.00002	0.00003
	SN	**(CK * D * SE * SI)**	0.00211	0.00220	0.00227
	SN	**(CK * D * SE * !SI)**	0.00247	0.00256	0.00264
	SN	**(CK * D * SE * !SI)**	-0.00003	-0.00002	-0.00002
	SN	**(CK * D * SE * !SI)**	0.00000	0.00002	0.00002
	SN	**(CK * D * SE * !SI)**	0.00214	0.00223	0.00230
	SN	**(CK * D * !SE * SI)**	0.00245	0.00254	0.00261
	SN	**(CK * D * !SE * SI)**	-0.00002	-0.00002	-0.00002
	SN	**(CK * D * !SE * SI)**	0.00000	0.00002	0.00002
	SN	**(CK * D * !SE * SI)**	0.00211	0.00220	0.00227
	SN	**(CK * D * !SE * !SI)**	0.00245	0.00254	0.00261
	SN	**(CK * D * !SE * !SI)**	-0.00002	-0.00002	-0.00002
	SN	**(CK * D * !SE * !SI)**	0.00001	0.00002	0.00003
	SN	**(CK * D * !SE * !SI)**	0.00211	0.00220	0.00227
	SN	**(CK * !D * SE * SI)**	0.00245	0.00254	0.00261
	SN	**(CK * !D * SE * SI)**	-0.00002	-0.00002	-0.00002
	SN	**(CK * !D * SE * SI)**	0.00001	0.00002	0.00003
	SN	**(CK * !D * SE * SI)**	0.00211	0.00220	0.00227
	SN	**(CK * !D * SE * !SI)**	0.00247	0.00256	0.00264
	SN	**(CK * !D * SE * !SI)**	-0.00003	-0.00002	-0.00002
	SN	**(CK * !D * SE * !SI)**	0.00000	0.00002	0.00002
	SN	**(CK * !D * SE * !SI)**	0.00214	0.00223	0.00230
	SN	**(CK * !D * !SE * SI)**	0.00247	0.00256	0.00264
	SN	**(CK * !D * !SE * SI)**	-0.00002	-0.00002	-0.00000
	SN	**(CK * !D * !SE * SI)**	0.00000	0.00002	0.00002
	SN	**(CK * !D * !SE * SI)**	0.00214	0.00223	0.00230
	SN	**(CK * !D * !SE * !SI)**	0.00247	0.00256	0.00264
	SN	**(CK * !D * !SE * !SI)**	-0.00002	-0.00002	-0.00000
	SN	**(CK * !D * !SE * !SI)**	0.00000	0.00002	0.00002
	SN	**(CK * !D * !SE * !SI)**	0.00214	0.00223	0.00230
	SN	**(!CK * D * SE * SI)**	0.00172	0.00179	0.00186
	SN	**(!CK * D * SE * SI)**	-0.00007	-0.00005	-0.00004
	SN	**(!CK * D * SE * SI)**	0.00004	0.00005	0.00006
	SN	**(!CK * D * SE * SI)**	0.00134	0.00142	0.00148
	SN	**(!CK * D * SE * !SI)**	0.00179	0.00185	0.00191
	SN	**(!CK * D * SE * !SI)**	-0.00007	-0.00006	-0.00004
	SN	**(!CK * D * SE * !SI)**	0.00004	0.00006	0.00007
	SN	**(!CK * D * SE * !SI)**	0.00137	0.00144	0.00150
	SN	**(!CK * D * !SE * SI)**	0.00172	0.00179	0.00186
	SN	**(!CK * D * !SE * SI)**	-0.00005	-0.00005	-0.00003
	SN	**(!CK * D * !SE * SI)**	0.00003	0.00005	0.00006
	SN	**(!CK * D * !SE * SI)**	0.00134	0.00142	0.00148
	SN	**(!CK * D * !SE * !SI)**	0.00172	0.00179	0.00186
	SN	**(!CK * D * !SE * !SI)**	-0.00005	-0.00005	-0.00003
	SN	**(!CK * D * !SE * !SI)**	0.00003	0.00005	0.00006
	SN	**(!CK * D * !SE * !SI)**	0.00134	0.00142	0.00148
	SN	**(!CK * !D * SE * SI)**	0.00172	0.00179	0.00186
	SN	**(!CK * !D * SE * SI)**	-0.00007	-0.00005	-0.00004
	SN	**(!CK * !D * SE * SI)**	0.00004	0.00005	0.00006
	SN	**(!CK * !D * SE * SI)**	0.00134	0.00142	0.00148
	SN	**(!CK * !D * SE * !SI)**	0.00179	0.00185	0.00191
	SN	**(!CK * !D * SE * !SI)**	-0.00008	-0.00006	-0.00003
	SN	**(!CK * !D * SE * !SI)**	0.00005	0.00006	0.00007
	SN	**(!CK * !D * SE * !SI)**	0.00137	0.00144	0.00150
	SN	**(!CK * !D * !SE * SI)**	0.00179	0.00185	0.00191
	SN	**(!CK * !D * !SE * SI)**	-0.00007	-0.00006	-0.00004
	SN	**(!CK * !D * !SE * SI)**	0.00004	0.00006	0.00007
	SN	**(!CK * !D * !SE * SI)**	0.00137	0.00144	0.00150
	SN	**(!CK * !D * !SE * !SI)**	0.00179	0.00185	0.00191
	SN	**(!CK * !D * !SE * !SI)**	-0.00007	-0.00006	-0.00004
	SN	**(!CK * !D * !SE * !SI)**	0.00005	0.00006	0.00008
	SN	**(!CK * !D * !SE * !SI)**	0.00137	0.00144	0.00150

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFSX1H7H	CK	(SE * SN)	0.00241	0.00246	0.00252
	CK	(SE * SN)	0.00003	0.00003	0.00003
	CK	(SE * SN)	-0.00002	-0.00001	0.00000
	CK	(SE * SN)	0.00291	0.00297	0.00303
	CK	(!SE * SN)	0.00241	0.00246	0.00252
	CK	(!SE * SN)	0.00002	0.00003	0.00003
	CK	(!SE * SN)	-0.00001	-0.00001	-0.00001
	CK	(!SE * SN)	0.00290	0.00297	0.00304

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFSX1H7H	CK	(SE * SN)	0.00241	0.00247	0.00252
	CK	(SE * SN)	0.00002	0.00003	0.00004
	CK	(SE * SN)	-0.00002	-0.00001	0.00000
	CK	(SE * SN)	0.00292	0.00298	0.00303
	CK	(!SE * SN)	0.00240	0.00247	0.00252
	CK	(!SE * SN)	0.00001	0.00003	0.00005
	CK	(!SE * SN)	-0.00003	-0.00001	0.00000
	CK	(!SE * SN)	0.00292	0.00298	0.00303

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

SDFFSX1H7H	**CK**	**(SE * SN)**	0.00237	0.00246	0.00253
	CK	**(SE * SN)**	-0.00004	-0.00003	-0.00002
	CK	**(SE * SN)**	0.00000	0.00001	0.00003
	CK	**(SE * SN)**	0.00276	0.00285	0.00293
	CK	**(!SE * SN)**	0.00236	0.00246	0.00253
	CK	**(!SE * SN)**	-0.00004	-0.00003	-0.00001
	CK	**(!SE * SN)**	0.00000	0.00001	0.00003
	CK	**(!SE * SN)**	0.00276	0.00285	0.00293
	SN	**(CK * D * SE * SI)**	0.00245	0.00254	0.00261
	SN	**(CK * D * SE * SI)**	-0.00003	-0.00002	-0.00001
	SN	**(CK * D * SE * SI)**	0.00000	0.00002	0.00004
	SN	**(CK * D * SE * SI)**	0.00211	0.00220	0.00227
	SN	**(CK * D * SE * !SI)**	0.00247	0.00256	0.00264
	SN	**(CK * D * SE * !SI)**	-0.00004	-0.00002	-0.00001
	SN	**(CK * D * SE * !SI)**	0.00000	0.00002	0.00003
	SN	**(CK * D * SE * !SI)**	0.00214	0.00223	0.00230
	SN	**(CK * D * !SE * SI)**	0.00245	0.00254	0.00261
	SN	**(CK * D * !SE * SI)**	-0.00003	-0.00002	-0.00002
	SN	**(CK * D * !SE * SI)**	0.00000	0.00002	0.00002
	SN	**(CK * D * !SE * SI)**	0.00211	0.00220	0.00227
	SN	**(CK * D * !SE * !SI)**	0.00245	0.00254	0.00261
	SN	**(CK * D * !SE * !SI)**	-0.00003	-0.00002	-0.00002
	SN	**(CK * D * !SE * !SI)**	0.00000	0.00002	0.00002
	SN	**(CK * D * !SE * !SI)**	0.00211	0.00220	0.00227
	SN	**(CK * !D * SE * SI)**	0.00245	0.00254	0.00261
	SN	**(CK * !D * SE * SI)**	-0.00003	-0.00002	-0.00001
	SN	**(CK * !D * SE * SI)**	0.00000	0.00002	0.00004
	SN	**(CK * !D * SE * SI)**	0.00211	0.00220	0.00227
	SN	**(CK * !D * SE * !SI)**	0.00247	0.00256	0.00264
	SN	**(CK * !D * SE * !SI)**	-0.00004	-0.00002	-0.00001
	SN	**(CK * !D * SE * !SI)**	0.00000	0.00002	0.00003
	SN	**(CK * !D * SE * !SI)**	0.00214	0.00223	0.00230
	SN	**(CK * !D * !SE * SI)**	0.00233	0.00256	0.00264
	SN	**(CK * !D * !SE * SI)**	-0.00003	-0.00002	0.00026
	SN	**(CK * !D * !SE * SI)**	0.00000	0.00002	0.00003
	SN	**(CK * !D * !SE * SI)**	0.00214	0.00223	0.00230
	SN	**(CK * !D * !SE * !SI)**	0.00233	0.00256	0.00264
	SN	**(CK * !D * !SE * !SI)**	-0.00003	-0.00002	0.00026
	SN	**(CK * !D * !SE * !SI)**	0.00000	0.00002	0.00003
	SN	**(CK * !D * !SE * !SI)**	0.00214	0.00223	0.00230
	SN	**(!CK * D * SE * SI)**	0.00172	0.00179	0.00186
	SN	**(!CK * D * SE * SI)**	-0.00006	-0.00005	-0.00003
	SN	**(!CK * D * SE * SI)**	0.00003	0.00005	0.00006
	SN	**(!CK * D * SE * SI)**	0.00134	0.00142	0.00148
	SN	**(!CK * D * SE * !SI)**	0.00179	0.00185	0.00191
	SN	**(!CK * D * SE * !SI)**	-0.00007	-0.00006	-0.00004
	SN	**(!CK * D * SE * !SI)**	0.00005	0.00006	0.00008
	SN	**(!CK * D * SE * !SI)**	0.00137	0.00144	0.00150
	SN	**(!CK * D * !SE * SI)**	0.00172	0.00179	0.00186
	SN	**(!CK * D * !SE * SI)**	-0.00006	-0.00005	-0.00004
	SN	**(!CK * D * !SE * SI)**	0.00004	0.00005	0.00006
	SN	**(!CK * D * !SE * SI)**	0.00134	0.00141	0.00148
	SN	**(!CK * D * !SE * !SI)**	0.00172	0.00179	0.00186
	SN	**(!CK * D * !SE * !SI)**	-0.00006	-0.00005	-0.00004
	SN	**(!CK * D * !SE * !SI)**	0.00004	0.00005	0.00006
	SN	**(!CK * D * !SE * !SI)**	0.00134	0.00142	0.00148
	SN	**(!CK * !D * SE * SI)**	0.00172	0.00179	0.00186
	SN	**(!CK * !D * SE * SI)**	-0.00006	-0.00005	-0.00003
	SN	**(!CK * !D * SE * SI)**	0.00003	0.00005	0.00006
	SN	**(!CK * !D * SE * SI)**	0.00134	0.00142	0.00148
	SN	**(!CK * !D * SE * !SI)**	0.00179	0.00185	0.00191
	SN	**(!CK * !D * SE * !SI)**	-0.00007	-0.00006	-0.00004
	SN	**(!CK * !D * SE * !SI)**	0.00005	0.00006	0.00007
	SN	**(!CK * !D * SE * !SI)**	0.00137	0.00144	0.00150
	SN	**(!CK * !D * !SE * SI)**	0.00179	0.00185	0.00191
	SN	**(!CK * !D * !SE * SI)**	-0.00007	-0.00006	-0.00004
	SN	**(!CK * !D * !SE * SI)**	0.00005	0.00006	0.00007
	SN	**(!CK * !D * !SE * SI)**	0.00137	0.00144	0.00150
	SN	**(!CK * !D * !SE * !SI)**	0.00179	0.00185	0.00191
	SN	**(!CK * !D * !SE * !SI)**	-0.00007	-0.00006	-0.00004
	SN	**(!CK * !D * !SE * !SI)**	0.00005	0.00006	0.00007
	SN	**(!CK * !D * !SE * !SI)**	0.00137	0.00144	0.00150

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFSX1H7H	0.00367	0.00376	0.00384
	0.00001	0.00002	0.00003
	0.00003	0.00004	0.00005
	0.00451	0.00460	0.00468

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFSX1H7H	0.00448	0.00451	0.00455
	-0.00002	-0.00001	-0.00000
	-0.00001	-0.00000	0.00000
	0.00356	0.00360	0.00364

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFSX1H7H	0.00177	0.00178	0.00179
	0.00015	0.00016	0.00017
	-0.00012	-0.00012	-0.00011
	0.00291	0.00292	0.00293

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFSX1H7H	0.00291	0.00292	0.00294
	-0.00017	-0.00016	-0.00015
	0.00011	0.00012	0.00012
	0.00176	0.00178	0.00180

Passive power(pJ) for SE rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFSX1H7H	0.00270	0.00273	0.00277
	-0.00012	-0.00011	-0.00010
	0.00007	0.00007	0.00009
	0.00353	0.00357	0.00360

Passive power(pJ) for SE falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFSX1H7H	0.00314	0.00317	0.00322
	0.00013	0.00015	0.00016
	-0.00009	-0.00007	-0.00007
	0.00243	0.00246	0.00250

Passive power(pJ) for SI rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFSX1H7H	0.00153	0.00154	0.00156
	0.00014	0.00015	0.00016
	-0.00013	-0.00012	-0.00011
	0.00266	0.00267	0.00270

Passive power(pJ) for SI falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFSX1H7H	0.00311	0.00314	0.00316
	-0.00015	-0.00015	-0.00014
	0.00011	0.00012	0.00013
	0.00199	0.00201	0.00204

Passive power(pJ) for SN rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFSX1H7H	0.00047	0.00048	0.00048
	0.00003	0.00004	0.00004
	0.00000	0.00000	0.00000
	0.00128	0.00129	0.00129

Passive power(pJ) for SN falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFSX1H7H	0.00019	0.00020	0.00021
	0.00001	0.00001	0.00001
	0.00000	0.00000	0.00000
	-0.00032	-0.00030	-0.00029

SDFFSX2H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Scan D Flip-Flop with Async Set
Q = !SN ? 1 : rising(CK) ? (SE&SI| !SE&D) : pre_Q
QN = !Q

Truth Table

INPUT					OUTPUT	
CK	D	SE	SI	SN	Q	QN
R	0	0	x	1	0	1
R	x	1	0	1	0	1
R	x	1	1	1	1	0
R	1	0	x	1	1	0
x	x	x	x	0	1	0
x	x	x	x	1	IQ	IQN

Footprint

Cell Name	Area
SDFFSX2H7H	11.48000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)	
	CK	D	SE	SI	SN	Q	QN
SDFFSX2H7H	0.00132	0.00089	0.00220	0.00086	0.00087	0.05741	0.05660

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
SDFFSX2H7H	0.00000	0.10839	0.12835

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFSX2H7H	CK->Q (RR)	(SE * SN)	0.19367	0.37254	0.81685
	CK->Q (RR)	(!SE * SN)	0.19369	0.37260	0.81693
	SN->Q (FR)	(CK * D * SE * SI)	0.17709	0.37025	0.86374
	SN->Q (FR)	(CK * D * SE * !SI)	0.17709	0.37025	0.86374
	SN->Q (FR)	(CK * D * !SE * SI)	0.17710	0.37025	0.86374
	SN->Q (FR)	(CK * D * !SE * !SI)	0.17710	0.37025	0.86374
	SN->Q (FR)	(CK * !D * SE * SI)	0.17709	0.37025	0.86374
	SN->Q (FR)	(CK * !D * SE * !SI)	0.17709	0.37025	0.86374
	SN->Q (FR)	(CK * !D * !SE * SI)	0.17709	0.37025	0.86374
	SN->Q (FR)	(CK * !D * !SE * !SI)	0.17709	0.37025	0.86374
	SN->Q (FR)	(!CK * D * SE * SI)	0.15537	0.34400	0.82358
	SN->Q (FR)	(!CK * D * SE * !SI)	0.16448	0.35564	0.84509
	SN->Q (FR)	(!CK * D * !SE * SI)	0.15537	0.34400	0.82358
	SN->Q (FR)	(!CK * D * !SE * !SI)	0.15537	0.34400	0.82358
	SN->Q (FR)	(!CK * !D * SE * SI)	0.15537	0.34400	0.82358
	SN->Q (FR)	(!CK * !D * SE * !SI)	0.16448	0.35564	0.84509
	SN->Q (FR)	(!CK * !D * !SE * SI)	0.16449	0.35563	0.84509
	SN->Q (FR)	(!CK * !D * !SE * !SI)	0.16449	0.35563	0.84509

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFSX2H7H	CK->Q (RF)	(SE * SN)	0.23260	0.38745	0.75805
	CK->Q (RF)	(!SE * SN)	0.23259	0.38745	0.75805

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFSX2H7H	CK->QN (RR)	(SE * SN)	0.17128	0.36862	0.81909
	CK->QN (RR)	(!SE * SN)	0.17127	0.36863	0.81910

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFSX2H7H	CK->QN (RF)	(SE * SN)	0.13519	0.30596	0.68815
	CK->QN (RF)	(!SE * SN)	0.13520	0.30601	0.68822
	SN->QN (FF)	(CK * D * SE * SI)	0.11165	0.30755	0.76266
	SN->QN (FF)	(CK * D * SE * !SI)	0.11165	0.30756	0.76284
	SN->QN (FF)	(CK * D * !SE * SI)	0.11165	0.30755	0.76266
	SN->QN (FF)	(CK * D * !SE * !SI)	0.11165	0.30755	0.76265
	SN->QN (FF)	(CK * !D * SE * SI)	0.11165	0.30755	0.76255
	SN->QN (FF)	(CK * !D * SE * !SI)	0.11165	0.30756	0.76284
	SN->QN (FF)	(CK * !D * !SE * SI)	0.11165	0.30756	0.76284
	SN->QN (FF)	(CK * !D * !SE * !SI)	0.11165	0.30756	0.76284
	SN->QN (FF)	(!CK * D * SE * SI)	0.09771	0.27453	0.69453
	SN->QN (FF)	(!CK * D * SE * !SI)	0.10596	0.28605	0.71512
	SN->QN (FF)	(!CK * D * !SE * SI)	0.09771	0.27453	0.69453
	SN->QN (FF)	(!CK * D * !SE * !SI)	0.09771	0.27453	0.69453
	SN->QN (FF)	(!CK * !D * SE * SI)	0.09771	0.27452	0.69453
	SN->QN (FF)	(!CK * !D * SE * !SI)	0.10596	0.28605	0.71511
	SN->QN (FF)	(!CK * !D * !SE * SI)	0.10596	0.28604	0.71510
	SN->QN (FF)	(!CK * !D * !SE * !SI)	0.10596	0.28604	0.71511

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
SDFFSX2H7H	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSX2H7H	**hold**	**CK (R)**	-0.21186	-0.07132	0.03003
	setup	**CK (R)**	0.02957	0.15204	0.34320

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSX2H7H	**hold**	**CK (R)**	-0.23173	-0.04866	0.12626
	setup	**CK (R)**	-0.05051	0.15412	0.38893

Constraints(ns) for SE rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSX2H7H	**hold**	**CK (R)**	-0.16175	-0.04086	0.10061
	setup	**CK (R)**	0.02454	0.17495	0.33977

Constraints(ns) for SE falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSX2H7H	**hold**	**CK (R)**	-0.16263	-0.02155	0.14380
	setup	**CK (R)**	0.05224	0.17074	0.35922

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSX2H7H	hold	CK (R)	-0.22109	-0.07777	0.02382
	setup	CK (R)	0.03798	0.16297	0.36050

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSX2H7H	hold	CK (R)	-0.23982	-0.05937	0.11088
	setup	CK (R)	-0.03080	0.17112	0.40706

Constraints(ns) for SN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSX2H7H	recovery	CK (R)	-0.24243	-0.02699	0.21879
	removal	CK (R)	0.12268	0.20167	0.36312

Min Pulse Width (ns) for SN:

Cell Name	High	Low
SDFFSX2H7H	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

SDFFSX2H7H	**CK**	**(SE * SN)**	0.00245	0.00255	0.00263
	CK	**(SE * SN)**	-0.00004	-0.00003	-0.00003
	CK	**(SE * SN)**	0.00000	0.00001	0.00002
	CK	**(SE * SN)**	0.00284	0.00294	0.00302
	CK	**(!SE * SN)**	0.00245	0.00255	0.00263
	CK	**(!SE * SN)**	-0.00004	-0.00003	-0.00003
	CK	**(!SE * SN)**	0.00000	0.00001	0.00002
	CK	**(!SE * SN)**	0.00284	0.00294	0.00302
	SN	**(CK * D * SE * SI)**	0.00254	0.00264	0.00271
	SN	**(CK * D * SE * SI)**	-0.00004	-0.00003	-0.00002
	SN	**(CK * D * SE * SI)**	0.00000	0.00002	0.00003
	SN	**(CK * D * SE * SI)**	0.00220	0.00229	0.00237
	SN	**(CK * D * SE * !SI)**	0.00257	0.00266	0.00274
	SN	**(CK * D * SE * !SI)**	-0.00005	-0.00003	-0.00001
	SN	**(CK * D * SE * !SI)**	0.00002	0.00002	0.00003
	SN	**(CK * D * SE * !SI)**	0.00222	0.00232	0.00239
	SN	**(CK * D * !SE * SI)**	0.00254	0.00264	0.00271
	SN	**(CK * D * !SE * SI)**	-0.00004	-0.00003	-0.00002
	SN	**(CK * D * !SE * SI)**	0.00000	0.00002	0.00004
	SN	**(CK * D * !SE * SI)**	0.00220	0.00229	0.00237
	SN	**(CK * D * !SE * !SI)**	0.00254	0.00264	0.00271
	SN	**(CK * D * !SE * !SI)**	-0.00004	-0.00003	-0.00002
	SN	**(CK * D * !SE * !SI)**	0.00000	0.00002	0.00004
	SN	**(CK * D * !SE * !SI)**	0.00220	0.00229	0.00237
	SN	**(CK * !D * SE * SI)**	0.00254	0.00264	0.00271
	SN	**(CK * !D * SE * SI)**	-0.00004	-0.00003	-0.00002
	SN	**(CK * !D * SE * SI)**	0.00000	0.00002	0.00003
	SN	**(CK * !D * SE * SI)**	0.00220	0.00229	0.00237
	SN	**(CK * !D * SE * !SI)**	0.00257	0.00266	0.00274
	SN	**(CK * !D * SE * !SI)**	-0.00005	-0.00003	-0.00001
	SN	**(CK * !D * SE * !SI)**	0.00002	0.00002	0.00003
	SN	**(CK * !D * SE * !SI)**	0.00222	0.00232	0.00239
	SN	**(CK * !D * !SE * SI)**	0.00257	0.00266	0.00274
	SN	**(CK * !D * !SE * SI)**	-0.00005	-0.00003	-0.00001
	SN	**(CK * !D * !SE * SI)**	0.00001	0.00002	0.00004
	SN	**(CK * !D * !SE * SI)**	0.00222	0.00232	0.00240
	SN	**(CK * !D * !SE * !SI)**	0.00257	0.00266	0.00274
	SN	**(CK * !D * !SE * !SI)**	-0.00005	-0.00003	-0.00001
	SN	**(CK * !D * !SE * !SI)**	0.00001	0.00002	0.00004
	SN	**(CK * !D * !SE * !SI)**	0.00222	0.00232	0.00240
	SN	**(!CK * D * SE * SI)**	0.00180	0.00188	0.00195
	SN	**(!CK * D * SE * SI)**	-0.00005	-0.00005	-0.00005
	SN	**(!CK * D * SE * SI)**	0.00002	0.00005	0.00005
	SN	**(!CK * D * SE * SI)**	0.00142	0.00150	0.00157
	SN	**(!CK * D * SE * !SI)**	0.00187	0.00194	0.00200
	SN	**(!CK * D * SE * !SI)**	-0.00006	-0.00006	-0.00006
	SN	**(!CK * D * SE * !SI)**	0.00005	0.00006	0.00007
	SN	**(!CK * D * SE * !SI)**	0.00145	0.00152	0.00159
	SN	**(!CK * D * !SE * SI)**	0.00180	0.00188	0.00195
	SN	**(!CK * D * !SE * SI)**	-0.00005	-0.00005	-0.00004
	SN	**(!CK * D * !SE * SI)**	0.00003	0.00005	0.00006
	SN	**(!CK * D * !SE * SI)**	0.00142	0.00150	0.00157
	SN	**(!CK * D * !SE * !SI)**	0.00180	0.00188	0.00195
	SN	**(!CK * D * !SE * !SI)**	-0.00005	-0.00005	-0.00004
	SN	**(!CK * D * !SE * !SI)**	0.00003	0.00005	0.00006
	SN	**(!CK * D * !SE * !SI)**	0.00142	0.00150	0.00157
	SN	**(!CK * !D * SE * SI)**	0.00180	0.00188	0.00195
	SN	**(!CK * !D * SE * SI)**	-0.00005	-0.00005	-0.00005
	SN	**(!CK * !D * SE * SI)**	0.00002	0.00005	0.00005
	SN	**(!CK * !D * SE * SI)**	0.00142	0.00150	0.00157
	SN	**(!CK * !D * SE * !SI)**	0.00187	0.00194	0.00200
	SN	**(!CK * !D * SE * !SI)**	-0.00006	-0.00006	-0.00006
	SN	**(!CK * !D * SE * !SI)**	0.00005	0.00006	0.00007
	SN	**(!CK * !D * SE * !SI)**	0.00145	0.00152	0.00159
	SN	**(!CK * !D * !SE * SI)**	0.00187	0.00194	0.00200
	SN	**(!CK * !D * !SE * SI)**	-0.00006	-0.00006	-0.00006
	SN	**(!CK * !D * !SE * SI)**	0.00005	0.00006	0.00007
	SN	**(!CK * !D * !SE * SI)**	0.00145	0.00152	0.00159
	SN	**(!CK * !D * !SE * !SI)**	0.00187	0.00194	0.00200
	SN	**(!CK * !D * !SE * !SI)**	-0.00006	-0.00006	-0.00006
	SN	**(!CK * !D * !SE * !SI)**	0.00005	0.00006	0.00007
	SN	**(!CK * !D * !SE * !SI)**	0.00145	0.00152	0.00159

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFSX2H7H	CK	(SE * SN)	0.00250	0.00256	0.00262
	CK	(SE * SN)	0.00003	0.00003	0.00004
	CK	(SE * SN)	-0.00002	-0.00001	0.00000
	CK	(SE * SN)	0.00300	0.00307	0.00312
	CK	(!SE * SN)	0.00250	0.00256	0.00262
	CK	(!SE * SN)	0.00003	0.00003	0.00004
	CK	(!SE * SN)	-0.00002	-0.00001	0.00000
	CK	(!SE * SN)	0.00300	0.00307	0.00312

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFSX2H7H	CK	(SE * SN)	0.00250	0.00256	0.00262
	CK	(SE * SN)	0.00001	0.00003	0.00004
	CK	(SE * SN)	-0.00002	-0.00001	0.00000
	CK	(SE * SN)	0.00300	0.00307	0.00312
	CK	(!SE * SN)	0.00249	0.00256	0.00262
	CK	(!SE * SN)	0.00002	0.00003	0.00004
	CK	(!SE * SN)	-0.00002	-0.00001	0.00000
	CK	(!SE * SN)	0.00300	0.00307	0.00312

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

SDFFSX2H7H	CK	(SE * SN)	0.00245	0.00255	0.00262
	CK	(SE * SN)	-0.00004	-0.00003	-0.00001
	CK	(SE * SN)	0.00000	0.00001	0.00003
	CK	(SE * SN)	0.00284	0.00294	0.00302
	CK	(!SE * SN)	0.00245	0.00255	0.00262
	CK	(!SE * SN)	-0.00004	-0.00003	-0.00002
	CK	(!SE * SN)	0.00000	0.00001	0.00003
	CK	(!SE * SN)	0.00284	0.00294	0.00302
	SN	(CK * D * SE * SI)	0.00254	0.00264	0.00271
	SN	(CK * D * SE * SI)	-0.00003	-0.00003	-0.00001
	SN	(CK * D * SE * SI)	0.00001	0.00002	0.00004
	SN	(CK * D * SE * SI)	0.00220	0.00229	0.00237
	SN	(CK * D * SE * !SI)	0.00257	0.00266	0.00274
	SN	(CK * D * SE * !SI)	-0.00004	-0.00003	-0.00001
	SN	(CK * D * SE * !SI)	0.00000	0.00002	0.00003
	SN	(CK * D * SE * !SI)	0.00222	0.00232	0.00239
	SN	(CK * D * !SE * SI)	0.00254	0.00264	0.00271
	SN	(CK * D * !SE * SI)	-0.00004	-0.00003	-0.00001
	SN	(CK * D * !SE * SI)	0.00001	0.00002	0.00003
	SN	(CK * D * !SE * SI)	0.00220	0.00229	0.00237
	SN	(CK * D * !SE * !SI)	0.00254	0.00264	0.00271
	SN	(CK * D * !SE * !SI)	-0.00004	-0.00003	-0.00001
	SN	(CK * D * !SE * !SI)	0.00001	0.00002	0.00003
	SN	(CK * D * !SE * !SI)	0.00220	0.00229	0.00237
	SN	(CK * !D * SE * SI)	0.00254	0.00264	0.00271
	SN	(CK * !D * SE * SI)	-0.00005	-0.00003	-0.00001
	SN	(CK * !D * SE * SI)	0.00001	0.00002	0.00004
	SN	(CK * !D * SE * SI)	0.00220	0.00229	0.00237
	SN	(CK * !D * SE * !SI)	0.00257	0.00266	0.00274
	SN	(CK * !D * SE * !SI)	-0.00004	-0.00003	-0.00001
	SN	(CK * !D * SE * !SI)	0.00000	0.00002	0.00003
	SN	(CK * !D * SE * !SI)	0.00222	0.00232	0.00239
	SN	(CK * !D * !SE * SI)	0.00257	0.00266	0.00274
	SN	(CK * !D * !SE * SI)	-0.00005	-0.00003	-0.00002
	SN	(CK * !D * !SE * SI)	0.00001	0.00002	0.00004
	SN	(CK * !D * !SE * SI)	0.00222	0.00232	0.00239
	SN	(CK * !D * !SE * !SI)	0.00257	0.00266	0.00274
	SN	(CK * !D * !SE * !SI)	-0.00005	-0.00003	-0.00002
	SN	(CK * !D * !SE * !SI)	0.00001	0.00002	0.00004
	SN	(CK * !D * !SE * !SI)	0.00222	0.00232	0.00239
	SN	(!CK * D * SE * SI)	0.00180	0.00188	0.00195
	SN	(!CK * D * SE * SI)	-0.00005	-0.00005	-0.00004
	SN	(!CK * D * SE * SI)	0.00003	0.00005	0.00006
	SN	(!CK * D * SE * SI)	0.00142	0.00150	0.00157
	SN	(!CK * D * SE * !SI)	0.00187	0.00194	0.00200
	SN	(!CK * D * SE * !SI)	-0.00007	-0.00006	-0.00005
	SN	(!CK * D * SE * !SI)	0.00004	0.00006	0.00008
	SN	(!CK * D * SE * !SI)	0.00145	0.00152	0.00159
	SN	(!CK * D * !SE * SI)	0.00180	0.00188	0.00195
	SN	(!CK * D * !SE * SI)	-0.00005	-0.00005	-0.00003
	SN	(!CK * D * !SE * SI)	0.00003	0.00005	0.00006
	SN	(!CK * D * !SE * SI)	0.00142	0.00150	0.00157
	SN	(!CK * D * !SE * !SI)	0.00180	0.00188	0.00195
	SN	(!CK * D * !SE * !SI)	-0.00005	-0.00005	-0.00003
	SN	(!CK * D * !SE * !SI)	0.00003	0.00005	0.00006
	SN	(!CK * D * !SE * !SI)	0.00142	0.00150	0.00157
	SN	(!CK * !D * SE * SI)	0.00180	0.00188	0.00195
	SN	(!CK * !D * SE * SI)	-0.00005	-0.00005	-0.00004
	SN	(!CK * !D * SE * SI)	0.00003	0.00005	0.00006
	SN	(!CK * !D * SE * SI)	0.00142	0.00150	0.00157
	SN	(!CK * !D * SE * !SI)	0.00187	0.00194	0.00200
	SN	(!CK * !D * SE * !SI)	-0.00007	-0.00006	-0.00005
	SN	(!CK * !D * SE * !SI)	0.00004	0.00006	0.00008
	SN	(!CK * !D * SE * !SI)	0.00145	0.00152	0.00159
	SN	(!CK * !D * !SE * SI)	0.00187	0.00194	0.00200
	SN	(!CK * !D * !SE * SI)	-0.00006	-0.00006	-0.00004
	SN	(!CK * !D * !SE * SI)	0.00005	0.00006	0.00008
	SN	(!CK * !D * !SE * SI)	0.00145	0.00152	0.00159
	SN	(!CK * !D * !SE * !SI)	0.00187	0.00194	0.00200
	SN	(!CK * !D * !SE * !SI)	-0.00006	-0.00006	-0.00004
	SN	(!CK * !D * !SE * !SI)	0.00005	0.00006	0.00008
	SN	(!CK * !D * !SE * !SI)	0.00145	0.00152	0.00159

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFSX2H7H	0.00372	0.00380	0.00387
	0.00000	0.00000	0.00001
	0.00004	0.00005	0.00005
	0.00452	0.00461	0.00467

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFSX2H7H	0.00446	0.00451	0.00456
	-0.00001	-0.00000	0.00000
	-0.00002	-0.00001	0.00000
	0.00358	0.00362	0.00365

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFSX2H7H	0.00181	0.00181	0.00184
	0.00012	0.00014	0.00014
	-0.00014	-0.00012	-0.00011
	0.00293	0.00294	0.00296

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFSX2H7H	0.00289	0.00291	0.00292
	-0.00014	-0.00014	-0.00012
	0.00011	0.00012	0.00014
	0.00177	0.00178	0.00179

Passive power(pJ) for SE rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFSX2H7H	0.00268	0.00272	0.00276
	-0.00010	-0.00009	-0.00008
	0.00004	0.00007	0.00008
	0.00354	0.00358	0.00362

Passive power(pJ) for SE falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFSX2H7H	0.00317	0.00320	0.00325
	0.00011	0.00014	0.00015
	-0.00008	-0.00007	-0.00004
	0.00244	0.00247	0.00251

Passive power(pJ) for SI rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFSX2H7H	0.00156	0.00158	0.00159
	0.00012	0.00013	0.00014
	-0.00011	-0.00011	-0.00010
	0.00267	0.00269	0.00271

Passive power(pJ) for SI falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFSX2H7H	0.00310	0.00313	0.00314
	-0.00014	-0.00013	-0.00012
	0.00010	0.00011	0.00011
	0.00200	0.00202	0.00205

Passive power(pJ) for SN rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFSX2H7H	0.00048	0.00048	0.00048
	0.00004	0.00005	0.00005
	0.00000	0.00000	0.00000
	0.00130	0.00130	0.00131

Passive power(pJ) for SN falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFSX2H7H	0.00019	0.00020	0.00021
	0.00001	0.00001	0.00001
	0.00000	0.00000	0.00000
	-0.00032	-0.00030	-0.00028

SDFFTRQX0P5H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Scan D Flip-Flop with Sync Clear
Q = rising (CK) ? (SE&SI| !SE&(D&RN)) : pre_Q

Truth Table

INPUT					OUTPUT
CK	D	RN	SE	SI	Q
R	0	x	0	x	0
R	x	x	1	0	0
R	x	x	1	1	1
R	1	0	0	x	0
R	1	1	0	x	1
x	x	x	x	x	IQ

Footprint

Cell Name	Area
SDFFTRQX0P5H7H	9.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	CK	D	RN	SE	SI	Q
SDFFTRQX0P5H7H	0.00100	0.00104	0.00105	0.00241	0.00084	0.04289

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
SDFFTRQX0P5H7H	0.00000	0.09240	0.10870

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
SDFFTRQX0P5H7H	CK->Q (RR)	0.15982	0.34794	0.79336

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
SDFFTRQX0P5H7H	CK->Q (RF)	0.13130	0.29938	0.67621

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
SDFFTRQX0P5H7H	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFTRQX0P5H7H	**hold**	**CK (R)**	-0.24971	-0.05917	0.11611
	setup	**CK (R)**	-0.07485	0.11982	0.32187

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFTRQX0P5H7H	**hold**	**CK (R)**	-0.30724	-0.13231	-0.01366
	setup	**CK (R)**	0.04654	0.17385	0.35917

Constraints(ns) for RN rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFTRQX0P5H7H	**hold**	**CK (R)**	-0.23398	-0.05372	0.12164
	setup	**CK (R)**	-0.07699	0.11493	0.31176

Constraints(ns) for RN falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFTRQX0P5H7H	**hold**	**CK (R)**	-0.29561	-0.12650	-0.00721
	setup	**CK (R)**	0.04279	0.16867	0.34914

Constraints(ns) for SE rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFTRQX0P5H7H	hold	CK (R)	-0.16839	-0.01396	0.15118
	setup	CK (R)	0.05615	0.16596	0.29104

Constraints(ns) for SE falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFTRQX0P5H7H	hold	CK (R)	-0.20359	-0.04107	0.12973
	setup	CK (R)	0.02978	0.14341	0.29921

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFTRQX0P5H7H	hold	CK (R)	-0.21244	-0.03119	0.14240
	setup	CK (R)	-0.10026	0.09106	0.28481

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFTRQX0P5H7H	hold	CK (R)	-0.30071	-0.12960	-0.01266
	setup	CK (R)	0.04966	0.17106	0.34815

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
SDFFTRQX0P5H7H	CK	0.00396	0.00403	0.00411
	CK	0.00000	0.00000	0.00002
	CK	-0.00001	-0.00000	0.00000
	CK	0.00469	0.00477	0.00483

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
SDFFTRQX0P5H7H	CK	0.00372	0.00383	0.00393
	CK	-0.00002	-0.00000	0.00000
	CK	0.00000	0.00000	0.00001
	CK	0.00433	0.00445	0.00455

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFTRQX0P5H7H	0.00180	0.00184	0.00189
	-0.00002	-0.00001	0.00000
	0.00000	0.00000	0.00001
	0.00247	0.00251	0.00256

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFTRQX0P5H7H	0.00407	0.00414	0.00422
	0.00005	0.00006	0.00007
	-0.00001	-0.00000	0.00000
	0.00349	0.00356	0.00364

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFTRQX0P5H7H	0.00180	0.00184	0.00187
	0.00018	0.00018	0.00018
	-0.00018	-0.00017	-0.00017
	0.00357	0.00360	0.00363

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFTRQX0P5H7H	0.00358	0.00361	0.00366
	-0.00018	-0.00018	-0.00018
	0.00017	0.00017	0.00018
	0.00183	0.00186	0.00190

Passive power(pJ) for RN rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFTRQX0P5H7H	0.00180	0.00183	0.00187
	0.00017	0.00018	0.00019
	-0.00012	-0.00012	-0.00011
	0.00333	0.00336	0.00341

Passive power(pJ) for RN falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFTRQX0P5H7H	0.00342	0.00345	0.00350
	-0.00018	-0.00018	-0.00017
	0.00011	0.00012	0.00012
	0.00188	0.00192	0.00196

Passive power(pJ) for SE rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFTRQX0P5H7H	0.00276	0.00278	0.00280
	-0.00003	-0.00003	-0.00001
	0.00002	0.00003	0.00004
	0.00372	0.00375	0.00377

Passive power(pJ) for SE falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFTRQX0P5H7H	0.00323	0.00327	0.00338
	0.00001	0.00003	0.00003
	-0.00004	-0.00003	-0.00002
	0.00227	0.00231	0.00242

Passive power(pJ) for SI rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFTRQX0P5H7H	0.00157	0.00159	0.00161
	0.00010	0.00011	0.00011
	-0.00009	-0.00008	-0.00008
	0.00271	0.00274	0.00277

Passive power(pJ) for SI falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFTRQX0P5H7H	0.00322	0.00325	0.00327
	-0.00011	-0.00011	-0.00010
	0.00008	0.00008	0.00009
	0.00208	0.00211	0.00213

SDFFTRQX1H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Scan D Flip-Flop with Sync Clear
Q = rising (CK) ? (SE&SI| !SE&(D&RN)) : pre_Q

Truth Table

INPUT					OUTPUT
CK	D	RN	SE	SI	Q
R	0	x	0	x	0
R	x	x	1	0	0
R	x	x	1	1	1
R	1	0	0	x	0
R	1	1	0	x	1
x	x	x	x	x	IQ

Footprint

Cell Name	Area
SDFFTRQX1H7H	9.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	CK	D	RN	SE	SI	Q
SDFFTRQX1H7H	0.00110	0.00099	0.00104	0.00211	0.00084	0.05026

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
SDFFTRQX1H7H	0.00000	0.10028	0.12311

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
SDFFTRQX1H7H	CK->Q (RR)	0.14821	0.33409	0.77362

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
SDFFTRQX1H7H	CK->Q (RF)	0.12263	0.29003	0.66519

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
SDFFTRQX1H7H	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFTRQX1H7H	**hold**	**CK (R)**	-0.26034	-0.07215	0.09803
	setup	**CK (R)**	-0.05514	0.12987	0.33127

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFTRQX1H7H	**hold**	**CK (R)**	-0.31713	-0.13523	-0.01337
	setup	**CK (R)**	0.04617	0.17641	0.36441

Constraints(ns) for RN rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFTRQX1H7H	**hold**	**CK (R)**	-0.24970	-0.06591	0.10142
	setup	**CK (R)**	-0.06058	0.12406	0.32188

Constraints(ns) for RN falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFTRQX1H7H	**hold**	**CK (R)**	-0.30597	-0.12948	-0.00885
	setup	**CK (R)**	0.04292	0.17057	0.35533

Constraints(ns) for SE rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFTRQX1H7H	hold	CK (R)	-0.19050	-0.02887	0.13289
	setup	CK (R)	0.06830	0.17802	0.30595

Constraints(ns) for SE falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFTRQX1H7H	hold	CK (R)	-0.22198	-0.05765	0.10673
	setup	CK (R)	0.02571	0.14594	0.30918

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFTRQX1H7H	hold	CK (R)	-0.23651	-0.04713	0.12413
	setup	CK (R)	-0.08261	0.10429	0.30364

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFTRQX1H7H	hold	CK (R)	-0.31643	-0.13872	-0.01942
	setup	CK (R)	0.05190	0.18008	0.36901

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
SDFFTRQX1H7H	CK	0.00359	0.00368	0.00374
	CK	0.00000	0.00000	0.00001
	CK	-0.00002	-0.00000	0.00000
	CK	0.00442	0.00448	0.00454

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
SDFFTRQX1H7H	CK	0.00351	0.00363	0.00373
	CK	-0.00001	-0.00000	0.00000
	CK	0.00000	0.00000	0.00002
	CK	0.00429	0.00440	0.00450

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFTRQX1H7H	0.00168	0.00172	0.00178
	0.00000	0.00000	0.00000
	-0.00002	-0.00002	-0.00001
	0.00247	0.00251	0.00256

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFTRQX1H7H	0.00408	0.00413	0.00420
	0.00000	0.00000	0.00000
	0.00005	0.00006	0.00007
	0.00321	0.00326	0.00332

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFTRQX1H7H	0.00204	0.00207	0.00211
	0.00017	0.00018	0.00018
	-0.00018	-0.00017	-0.00017
	0.00371	0.00375	0.00378

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFTRQX1H7H	0.00354	0.00356	0.00360
	-0.00018	-0.00018	-0.00017
	0.00017	0.00017	0.00018
	0.00188	0.00191	0.00195

Passive power(pJ) for RN rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFTRQX1H7H	0.00201	0.00204	0.00207
	0.00017	0.00018	0.00019
	-0.00012	-0.00011	-0.00011
	0.00351	0.00354	0.00357

Passive power(pJ) for RN falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFTRQX1H7H	0.00339	0.00342	0.00345
	-0.00018	-0.00018	-0.00017
	0.00011	0.00012	0.00012
	0.00188	0.00191	0.00195

Passive power(pJ) for SE rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFTRQX1H7H	0.00294	0.00297	0.00300
	-0.00003	-0.00003	-0.00000
	0.00003	0.00004	0.00004
	0.00385	0.00387	0.00390

Passive power(pJ) for SE falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFTRQX1H7H	0.00343	0.00347	0.00358
	0.00000	0.00003	0.00003
	-0.00004	-0.00003	-0.00003
	0.00253	0.00256	0.00268

Passive power(pJ) for SI rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFTRQX1H7H	0.00173	0.00175	0.00178
	0.00010	0.00011	0.00011
	-0.00008	-0.00008	-0.00007
	0.00281	0.00284	0.00286

Passive power(pJ) for SI falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFTRQX1H7H	0.00335	0.00338	0.00340
	-0.00011	-0.00011	-0.00010
	0.00007	0.00008	0.00008
	0.00227	0.00230	0.00233

SDFFTRQX2H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Scan D Flip-Flop with Sync Clear
Q = rising (CK) ? (SE&SI| !SE&(D&RN)) : pre_Q

Truth Table

INPUT					OUTPUT
CK	D	RN	SE	SI	Q
R	0	x	0	x	0
R	x	x	1	0	0
R	x	x	1	1	1
R	1	0	0	x	0
R	1	1	0	x	1
x	x	x	x	x	IQ

Footprint

Cell Name	Area
SDFFTRQX2H7H	9.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	CK	D	RN	SE	SI	Q
SDFFTRQX2H7H	0.00118	0.00099	0.00104	0.00220	0.00085	0.06380

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
SDFFTRQX2H7H	0.00000	0.11666	0.13229

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
SDFFTRQX2H7H	CK->Q (RR)	0.14241	0.32922	0.76740

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
SDFFTRQX2H7H	CK->Q (RF)	0.12335	0.28741	0.64975

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
SDFFTRQX2H7H	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFTRQX2H7H	**hold**	**CK (R)**	-0.26436	-0.07595	0.09269
	setup	**CK (R)**	-0.04713	0.13469	0.33801

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFTRQX2H7H	**hold**	**CK (R)**	-0.31679	-0.13738	-0.01952
	setup	**CK (R)**	0.05128	0.17915	0.36660

Constraints(ns) for RN rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFTRQX2H7H	**hold**	**CK (R)**	-0.25182	-0.07034	0.09310
	setup	**CK (R)**	-0.05216	0.12941	0.32721

Constraints(ns) for RN falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFTRQX2H7H	**hold**	**CK (R)**	-0.30626	-0.13198	-0.01242
	setup	**CK (R)**	0.04819	0.17376	0.35625

Constraints(ns) for SE rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFTRQX2H7H	hold	CK (R)	-0.19653	-0.03353	0.12551
	setup	CK (R)	0.07128	0.17745	0.30428

Constraints(ns) for SE falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFTRQX2H7H	hold	CK (R)	-0.21638	-0.05834	0.10044
	setup	CK (R)	0.02864	0.14929	0.31602

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFTRQX2H7H	hold	CK (R)	-0.23919	-0.05145	0.11400
	setup	CK (R)	-0.07385	0.10842	0.30747

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFTRQX2H7H	hold	CK (R)	-0.31890	-0.14126	-0.02570
	setup	CK (R)	0.05837	0.18338	0.37159

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
SDFFTRQX2H7H	CK	0.00393	0.00401	0.00410
	CK	0.00000	0.00000	0.00000
	CK	0.00000	0.00000	0.00000
	CK	0.00478	0.00487	0.00496

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
SDFFTRQX2H7H	CK	0.00395	0.00409	0.00421
	CK	0.00000	0.00000	0.00000
	CK	0.00000	0.00000	0.00000
	CK	0.00479	0.00493	0.00506

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFTRQX2H7H	0.00176	0.00181	0.00186
	-0.00002	-0.00001	-0.00000
	0.00000	0.00000	0.00000
	0.00261	0.00266	0.00271

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFTRQX2H7H	0.00413	0.00420	0.00428
	0.00007	0.00007	0.00008
	0.00000	0.00000	0.00000
	0.00338	0.00345	0.00353

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFTRQX2H7H	0.00214	0.00218	0.00221
	0.00017	0.00017	0.00018
	-0.00017	-0.00017	-0.00016
	0.00380	0.00384	0.00387

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFTRQX2H7H	0.00362	0.00365	0.00369
	-0.00018	-0.00017	-0.00017
	0.00016	0.00017	0.00017
	0.00197	0.00200	0.00204

Passive power(pJ) for RN rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFTRQX2H7H	0.00212	0.00214	0.00217
	0.00017	0.00018	0.00018
	-0.00011	-0.00011	-0.00011
	0.00361	0.00363	0.00367

Passive power(pJ) for RN falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFTRQX2H7H	0.00347	0.00351	0.00355
	-0.00018	-0.00018	-0.00017
	0.00011	0.00011	0.00012
	0.00198	0.00201	0.00205

Passive power(pJ) for SE rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFTRQX2H7H	0.00300	0.00303	0.00306
	-0.00004	-0.00002	-0.00001
	0.00002	0.00003	0.00003
	0.00400	0.00402	0.00405

Passive power(pJ) for SE falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFTRQX2H7H	0.00357	0.00362	0.00374
	0.00001	0.00002	0.00005
	-0.00003	-0.00003	-0.00002
	0.00258	0.00263	0.00275

Passive power(pJ) for SI rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFTRQX2H7H	0.00183	0.00186	0.00187
	0.00010	0.00010	0.00011
	-0.00009	-0.00008	-0.00007
	0.00291	0.00294	0.00297

Passive power(pJ) for SI falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFTRQX2H7H	0.00344	0.00347	0.00349
	-0.00011	-0.00010	-0.00010
	0.00007	0.00008	0.00009
	0.00237	0.00239	0.00240

SDFFTRQX3H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Scan D Flip-Flop with Sync Clear
Q = rising (CK) ? (SE&SI| !SE&(D&RN)) : pre_Q

Truth Table

INPUT					OUTPUT
CK	D	RN	SE	SI	Q
R	0	x	0	x	0
R	x	x	1	0	0
R	x	x	1	1	1
R	1	0	0	x	0
R	1	1	0	x	1
x	x	x	x	x	IQ

Footprint

Cell Name	Area
SDFFTRQX3H7H	9.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	CK	D	RN	SE	SI	Q
SDFFTRQX3H7H	0.00120	0.00107	0.00113	0.00228	0.00082	0.09087

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
SDFFTRQX3H7H	0.00000	0.13161	0.15837

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
SDFFTRQX3H7H	**CK->Q (RR)**	0.13974	0.32822	0.76795

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
SDFFTRQX3H7H	**CK->Q (RF)**	0.12437	0.29600	0.67202

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
SDFFTRQX3H7H	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFTRQX3H7H	**hold**	**CK (R)**	-0.26126	-0.07283	0.09460
	setup	**CK (R)**	-0.05290	0.13092	0.33321

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFTRQX3H7H	**hold**	**CK (R)**	-0.30337	-0.12787	-0.01022
	setup	**CK (R)**	0.04376	0.16860	0.35427

Constraints(ns) for RN rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFTRQX3H7H	**hold**	**CK (R)**	-0.25078	-0.06650	0.10013
	setup	**CK (R)**	-0.05789	0.12469	0.31926

Constraints(ns) for RN falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFTRQX3H7H	**hold**	**CK (R)**	-0.29392	-0.12269	-0.00439
	setup	**CK (R)**	0.04058	0.16323	0.34374

Constraints(ns) for SE rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFTRQX3H7H	hold	CK (R)	-0.19970	-0.03453	0.12848
	setup	CK (R)	0.07927	0.18562	0.30991

Constraints(ns) for SE falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFTRQX3H7H	hold	CK (R)	-0.21361	-0.05264	0.10666
	setup	CK (R)	0.02361	0.13770	0.29745

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFTRQX3H7H	hold	CK (R)	-0.23966	-0.05150	0.11629
	setup	CK (R)	-0.07391	0.10880	0.31018

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFTRQX3H7H	hold	CK (R)	-0.33200	-0.15098	-0.03557
	setup	CK (R)	0.07025	0.19283	0.38296

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
SDFFTRQX3H7H	CK	0.00416	0.00426	0.00438
	CK	-0.00002	-0.00000	0.00000
	CK	0.00000	0.00000	0.00003
	CK	0.00497	0.00509	0.00519

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
SDFFTRQX3H7H	CK	0.00409	0.00426	0.00439
	CK	-0.00000	0.00000	0.00002
	CK	-0.00003	-0.00000	0.00000
	CK	0.00496	0.00514	0.00528

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFTRQX3H7H	0.00175	0.00180	0.00185
	-0.00002	-0.00001	-0.00000
	0.00000	0.00000	0.00000
	0.00261	0.00266	0.00270

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFTRQX3H7H	0.00420	0.00427	0.00435
	0.00006	0.00007	0.00008
	-0.00000	-0.00000	0.00000
	0.00343	0.00351	0.00361

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFTRQX3H7H	0.00217	0.00221	0.00225
	0.00020	0.00021	0.00022
	-0.00019	-0.00018	-0.00018
	0.00401	0.00405	0.00409

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFTRQX3H7H	0.00385	0.00389	0.00392
	-0.00022	-0.00021	-0.00020
	0.00018	0.00018	0.00019
	0.00203	0.00206	0.00210

Passive power(pJ) for RN rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFTRQX3H7H	0.00214	0.00217	0.00220
	0.00020	0.00021	0.00023
	-0.00013	-0.00012	-0.00012
	0.00380	0.00383	0.00388

Passive power(pJ) for RN falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFTRQX3H7H	0.00369	0.00372	0.00376
	-0.00022	-0.00021	-0.00020
	0.00012	0.00012	0.00013
	0.00203	0.00206	0.00211

Passive power(pJ) for SE rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFTRQX3H7H	0.00308	0.00310	0.00313
	-0.00004	-0.00003	-0.00003
	0.00002	0.00003	0.00004
	0.00407	0.00410	0.00412

Passive power(pJ) for SE falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFTRQX3H7H	0.00362	0.00366	0.00379
	0.00003	0.00003	0.00004
	-0.00004	-0.00003	-0.00002
	0.00263	0.00268	0.00280

Passive power(pJ) for SI rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFTRQX3H7H	0.00189	0.00191	0.00193
	0.00010	0.00010	0.00011
	-0.00008	-0.00008	-0.00007
	0.00297	0.00299	0.00301

Passive power(pJ) for SI falling :

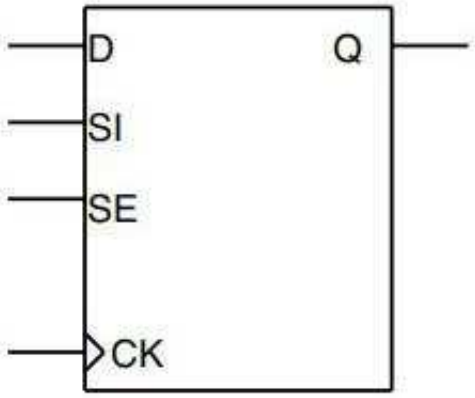
Cell Name	Power(pJ)		
	min	avg	max
SDFFTRQX3H7H	0.00350	0.00352	0.00354
	-0.00011	-0.00010	-0.00010
	0.00007	0.00008	0.00008
	0.00242	0.00245	0.00247

SDFFX0P5H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Scan D Flip-Flop
Q = rising (CK) ? (SE&SI| !SE&D) : pre_Q
QN = !Q



Truth Table

INPUT				OUTPUT	
CK	D	SE	SI	Q	QN
R	0	0	x	0	1
R	x	1	0	0	1
R	x	1	1	1	0
R	1	0	x	1	0
x	x	x	x	IQ	IQN

Footprint

Cell Name	Area
SDFFX0P5H7H	9.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)	
	CK	**D**	**SE**	**SI**	**Q**	**QN**
SDFFX0P5H7H	0.00104	0.00081	0.00226	0.00088	0.04282	0.04300

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
SDFFX0P5H7H	0.00000	0.09072	0.10079

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFX0P5H7H	CK->Q (RR)	SE	0.18443	0.37081	0.81436
	CK->Q (RR)	!SE	0.18445	0.37083	0.81456

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFX0P5H7H	CK->Q (RF)	SE	0.13297	0.29684	0.66829
	CK->Q (RF)	!SE	0.13298	0.29685	0.66830

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFX0P5H7H	CK->QN (RR)	SE	0.18779	0.36410	0.80347
	CK->QN (RR)	!SE	0.18780	0.36411	0.80346

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFX0P5H7H	CK->QN (RF)	SE	0.23217	0.38315	0.74549
	CK->QN (RF)	!SE	0.23218	0.38317	0.74582

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
SDFFX0P5H7H	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFX0P5H7H	**hold**	**CK (R)**	-0.27463	-0.10735	0.00590
	setup	**CK (R)**	0.01173	0.12598	0.30312

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFX0P5H7H	**hold**	**CK (R)**	-0.30753	-0.08507	0.11204
	setup	**CK (R)**	-0.06259	0.14258	0.37539

Constraints(ns) for SE rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFX0P5H7H	**hold**	**CK (R)**	-0.22975	-0.07805	0.06587
	setup	**CK (R)**	-0.00094	0.17010	0.32763

Constraints(ns) for SE falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFX0P5H7H	**hold**	**CK (R)**	-0.26251	-0.05683	0.13218
	setup	**CK (R)**	0.04102	0.15096	0.33190

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFX0P5H7H	hold	CK (R)	-0.27786	-0.10967	0.00417
	setup	CK (R)	0.01520	0.12856	0.30710

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFX0P5H7H	hold	CK (R)	-0.33323	-0.10626	0.08808
	setup	CK (R)	-0.03761	0.16528	0.40000

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFX0P5H7H	CK	SE	0.00224	0.00230	0.00235
	CK	SE	0.00004	0.00005	0.00007
	CK	SE	-0.00005	-0.00004	-0.00002
	CK	SE	0.00270	0.00276	0.00281
	CK	!SE	0.00223	0.00230	0.00235
	CK	!SE	0.00004	0.00006	0.00007
	CK	!SE	-0.00006	-0.00003	-0.00002
	CK	!SE	0.00270	0.00276	0.00281

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFX0P5H7H	CK	SE	0.00220	0.00228	0.00235
	CK	SE	-0.00005	-0.00004	-0.00002
	CK	SE	0.00005	0.00005	0.00006
	CK	SE	0.00249	0.00257	0.00263
	CK	!SE	0.00220	0.00228	0.00235
	CK	!SE	-0.00004	-0.00004	-0.00002
	CK	!SE	0.00004	0.00005	0.00006
	CK	!SE	0.00249	0.00257	0.00264

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFX0P5H7H	CK	SE	0.00220	0.00228	0.00235
	CK	SE	-0.00004	-0.00004	-0.00002
	CK	SE	0.00005	0.00005	0.00005
	CK	SE	0.00249	0.00257	0.00263
	CK	!SE	0.00220	0.00228	0.00235
	CK	!SE	-0.00005	-0.00004	-0.00001
	CK	!SE	0.00005	0.00005	0.00006
	CK	!SE	0.00249	0.00257	0.00264

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFX0P5H7H	CK	SE	0.00224	0.00230	0.00235
	CK	SE	0.00004	0.00005	0.00006
	CK	SE	-0.00005	-0.00003	-0.00003
	CK	SE	0.00270	0.00276	0.00281
	CK	!SE	0.00224	0.00230	0.00235
	CK	!SE	0.00005	0.00006	0.00007
	CK	!SE	-0.00005	-0.00003	-0.00002
	CK	!SE	0.00270	0.00276	0.00281

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFX0P5H7H	0.00199	0.00203	0.00208
	0.00000	0.00000	0.00000
	0.00001	0.00002	0.00003
	0.00271	0.00276	0.00282

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFX0P5H7H	0.00452	0.00456	0.00458
	-0.00000	-0.00000	0.00000
	0.00000	0.00001	0.00001
	0.00371	0.00375	0.00379

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFX0P5H7H	0.00188	0.00190	0.00191
	0.00018	0.00018	0.00019
	-0.00016	-0.00015	-0.00015
	0.00305	0.00307	0.00309

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFX0P5H7H	0.00265	0.00267	0.00268
	-0.00018	-0.00018	-0.00018
	0.00015	0.00015	0.00016
	0.00148	0.00150	0.00151

Passive power(pJ) for SE rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFX0P5H7H	0.00265	0.00270	0.00275
	-0.00013	-0.00012	-0.00011
	0.00010	0.00011	0.00012
	0.00352	0.00356	0.00359

Passive power(pJ) for SE falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFX0P5H7H	0.00338	0.00340	0.00344
	0.00011	0.00012	0.00013
	-0.00012	-0.00011	-0.00010
	0.00252	0.00254	0.00257

Passive power(pJ) for SI rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFX0P5H7H	0.00151	0.00153	0.00155
	0.00016	0.00017	0.00017
	-0.00015	-0.00015	-0.00014
	0.00264	0.00266	0.00268

Passive power(pJ) for SI falling :

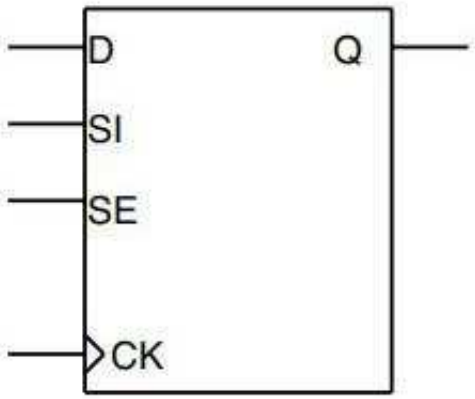
Cell Name	Power(pJ)		
	min	avg	max
SDFFX0P5H7H	0.00297	0.00299	0.00302
	-0.00017	-0.00017	-0.00016
	0.00014	0.00015	0.00015
	0.00186	0.00187	0.00190

SDFFX1H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Scan D Flip-Flop
Q = rising (CK) ? (SE&SI| !SE&D) : pre_Q
QN = !Q



Truth Table

INPUT				OUTPUT	
CK	D	SE	SI	Q	QN
R	0	0	x	0	1
R	x	1	0	0	1
R	x	1	1	1	0
R	1	0	x	1	0
x	x	x	x	IQ	IQN

Footprint

Cell Name	Area
SDFFX1H7H	9.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)	
	CK	**D**	**SE**	**SI**	**Q**	**QN**
SDFFX1H7H	0.00106	0.00081	0.00231	0.00089	0.05023	0.04986

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
SDFFX1H7H	0.00000	0.10101	0.11271

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFX1H7H	CK->Q (RR)	SE	0.18166	0.36794	0.81208
	CK->Q (RR)	!SE	0.18168	0.36793	0.81194

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFX1H7H	CK->Q (RF)	SE	0.13290	0.29861	0.67503
	CK->Q (RF)	!SE	0.13285	0.29863	0.67503

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFX1H7H	CK->QN (RR)	SE	0.18695	0.36238	0.79935
	CK->QN (RR)	!SE	0.18690	0.36241	0.79943

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFX1H7H	CK->QN (RF)	SE	0.22971	0.38189	0.74697
	CK->QN (RF)	!SE	0.22973	0.38190	0.74709

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
SDFFX1H7H	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFX1H7H	**hold**	**CK (R)**	-0.27166	-0.10563	0.00615
	setup	**CK (R)**	0.00868	0.12407	0.29912

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFX1H7H	**hold**	**CK (R)**	-0.30860	-0.08462	0.11229
	setup	**CK (R)**	-0.06496	0.14172	0.37096

Constraints(ns) for SE rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFX1H7H	**hold**	**CK (R)**	-0.22900	-0.07612	0.07022
	setup	**CK (R)**	-0.00316	0.16931	0.32456

Constraints(ns) for SE falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFX1H7H	**hold**	**CK (R)**	-0.26372	-0.05693	0.13484
	setup	**CK (R)**	0.03590	0.15030	0.33075

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFX1H7H	hold	CK (R)	-0.27806	-0.10721	0.00764
	setup	CK (R)	0.01104	0.12698	0.30754

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFX1H7H	hold	CK (R)	-0.33094	-0.10515	0.09123
	setup	CK (R)	-0.03992	0.16420	0.39777

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFX1H7H	CK	SE	0.00233	0.00240	0.00245
	CK	SE	0.00004	0.00006	0.00007
	CK	SE	-0.00005	-0.00003	-0.00002
	CK	SE	0.00281	0.00287	0.00292
	CK	!SE	0.00234	0.00240	0.00245
	CK	!SE	0.00004	0.00006	0.00006
	CK	!SE	-0.00005	-0.00003	-0.00002
	CK	!SE	0.00281	0.00287	0.00292

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFX1H7H	CK	SE	0.00230	0.00239	0.00246
	CK	SE	-0.00004	-0.00004	-0.00002
	CK	SE	0.00004	0.00005	0.00006
	CK	SE	0.00260	0.00268	0.00275
	CK	!SE	0.00230	0.00239	0.00246
	CK	!SE	-0.00004	-0.00003	-0.00002
	CK	!SE	0.00003	0.00005	0.00006
	CK	!SE	0.00260	0.00268	0.00275

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFX1H7H	CK	SE	0.00231	0.00239	0.00246
	CK	SE	-0.00005	-0.00004	-0.00001
	CK	SE	0.00004	0.00005	0.00007
	CK	SE	0.00260	0.00268	0.00275
	CK	!SE	0.00231	0.00239	0.00246
	CK	!SE	-0.00005	-0.00004	-0.00001
	CK	!SE	0.00005	0.00005	0.00007
	CK	!SE	0.00260	0.00268	0.00275

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFX1H7H	CK	SE	0.00233	0.00240	0.00245
	CK	SE	0.00004	0.00006	0.00006
	CK	SE	-0.00005	-0.00003	-0.00002
	CK	SE	0.00280	0.00287	0.00292
	CK	!SE	0.00233	0.00240	0.00245
	CK	!SE	0.00005	0.00006	0.00007
	CK	!SE	-0.00004	-0.00003	-0.00002
	CK	!SE	0.00280	0.00287	0.00292

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFX1H7H	0.00202	0.00207	0.00212
	0.00000	0.00000	0.00001
	0.00002	0.00003	0.00004
	0.00275	0.00280	0.00285

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFX1H7H	0.00457	0.00461	0.00465
	-0.00001	-0.00000	0.00000
	-0.00000	-0.00000	0.00001
	0.00375	0.00380	0.00383

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFX1H7H	0.00196	0.00197	0.00198
	0.00017	0.00018	0.00019
	-0.00016	-0.00015	-0.00015
	0.00312	0.00315	0.00317

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFX1H7H	0.00263	0.00265	0.00266
	-0.00018	-0.00018	-0.00017
	0.00015	0.00015	0.00016
	0.00146	0.00147	0.00148

Passive power(pJ) for SE rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFX1H7H	0.00262	0.00268	0.00273
	-0.00013	-0.00012	-0.00011
	0.00009	0.00010	0.00013
	0.00352	0.00356	0.00362

Passive power(pJ) for SE falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFX1H7H	0.00346	0.00349	0.00351
	0.00011	0.00012	0.00014
	-0.00011	-0.00010	-0.00009
	0.00259	0.00261	0.00264

Passive power(pJ) for SI rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFX1H7H	0.00158	0.00160	0.00162
	0.00016	0.00017	0.00017
	-0.00015	-0.00014	-0.00014
	0.00272	0.00274	0.00277

Passive power(pJ) for SI falling :

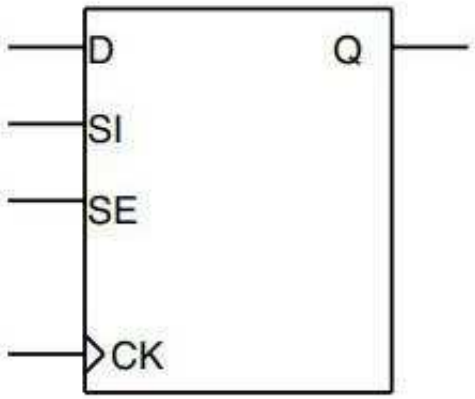
Cell Name	Power(pJ)		
	min	avg	max
SDFFX1H7H	0.00295	0.00298	0.00300
	-0.00017	-0.00017	-0.00016
	0.00014	0.00014	0.00015
	0.00182	0.00184	0.00186

SDFFX2H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Scan D Flip-Flop
Q = rising (CK) ? (SE&SI | !SE&D) : pre_Q
QN = !Q



Truth Table

INPUT				OUTPUT	
CK	D	SE	SI	Q	QN
R	0	0	x	0	1
R	x	1	0	0	1
R	x	1	1	1	0
R	1	0	x	1	0
x	x	x	x	IQ	IQN

Footprint

Cell Name	Area
SDFFX2H7H	10.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)	
	CK	**D**	**SE**	**SI**	**Q**	**QN**
SDFFX2H7H	0.00115	0.00081	0.00240	0.00090	0.06354	0.06324

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
SDFFX2H7H	0.00000	0.11703	0.13258

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFX2H7H	CK->Q (RR)	SE	0.17634	0.36358	0.80543
	CK->Q (RR)	!SE	0.17635	0.36358	0.80537

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFX2H7H	CK->Q (RF)	SE	0.13442	0.29673	0.66027
	CK->Q (RF)	!SE	0.13444	0.29674	0.66027

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFX2H7H	CK->QN (RR)	SE	0.19513	0.36796	0.80078
	CK->QN (RR)	!SE	0.19514	0.36799	0.80086

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFX2H7H	CK->QN (RF)	SE	0.22587	0.37203	0.72211
	CK->QN (RF)	!SE	0.22587	0.37204	0.72218

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
SDFFX2H7H	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFX2H7H	**hold**	**CK (R)**	-0.27568	-0.10740	0.00492
	setup	**CK (R)**	0.01384	0.12726	0.30390

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFX2H7H	**hold**	**CK (R)**	-0.31393	-0.09138	0.09797
	setup	**CK (R)**	-0.05448	0.14680	0.37590

Constraints(ns) for SE rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFX2H7H	**hold**	**CK (R)**	-0.23066	-0.07918	0.05895
	setup	**CK (R)**	0.00138	0.17017	0.32051

Constraints(ns) for SE falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFX2H7H	**hold**	**CK (R)**	-0.25947	-0.06398	0.12142
	setup	**CK (R)**	0.03843	0.14993	0.33512

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFX2H7H	hold	CK (R)	-0.27875	-0.11018	0.00376
	setup	CK (R)	0.01782	0.12997	0.30877

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFX2H7H	hold	CK (R)	-0.33848	-0.11192	0.08044
	setup	CK (R)	-0.03088	0.16941	0.40157

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFX2H7H	CK	SE	0.00263	0.00272	0.00280
	CK	SE	0.00005	0.00006	0.00009
	CK	SE	-0.00005	-0.00004	-0.00003
	CK	SE	0.00315	0.00323	0.00330
	CK	!SE	0.00263	0.00272	0.00280
	CK	!SE	0.00004	0.00006	0.00008
	CK	!SE	-0.00005	-0.00004	-0.00003
	CK	!SE	0.00315	0.00323	0.00330

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFX2H7H	CK	SE	0.00262	0.00274	0.00283
	CK	SE	-0.00004	-0.00004	-0.00003
	CK	SE	0.00004	0.00005	0.00007
	CK	SE	0.00294	0.00306	0.00315
	CK	!SE	0.00262	0.00274	0.00284
	CK	!SE	-0.00005	-0.00004	-0.00003
	CK	!SE	0.00004	0.00005	0.00007
	CK	!SE	0.00294	0.00306	0.00316

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFX2H7H	CK	SE	0.00262	0.00274	0.00284
	CK	SE	-0.00005	-0.00004	-0.00003
	CK	SE	0.00005	0.00005	0.00005
	CK	SE	0.00294	0.00306	0.00316
	CK	!SE	0.00262	0.00274	0.00284
	CK	!SE	-0.00004	-0.00004	-0.00001
	CK	!SE	0.00005	0.00005	0.00006
	CK	!SE	0.00294	0.00306	0.00316

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFX2H7H	CK	SE	0.00263	0.00272	0.00280
	CK	SE	0.00005	0.00006	0.00007
	CK	SE	-0.00004	-0.00003	-0.00002
	CK	SE	0.00314	0.00323	0.00330
	CK	!SE	0.00263	0.00272	0.00280
	CK	!SE	0.00005	0.00006	0.00007
	CK	!SE	-0.00005	-0.00003	-0.00002
	CK	!SE	0.00314	0.00323	0.00330

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFX2H7H	0.00205	0.00210	0.00216
	0.00000	0.00000	0.00001
	0.00002	0.00003	0.00004
	0.00284	0.00289	0.00295

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFX2H7H	0.00469	0.00473	0.00476
	-0.00001	-0.00000	0.00000
	-0.00001	-0.00000	-0.00000
	0.00382	0.00386	0.00390

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFX2H7H	0.00201	0.00202	0.00203
	0.00016	0.00017	0.00018
	-0.00015	-0.00014	-0.00013
	0.00315	0.00318	0.00320

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFX2H7H	0.00268	0.00270	0.00271
	-0.00018	-0.00017	-0.00016
	0.00013	0.00014	0.00015
	0.00153	0.00155	0.00157

Passive power(pJ) for SE rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFX2H7H	0.00265	0.00270	0.00276
	-0.00011	-0.00010	-0.00009
	0.00006	0.00009	0.00009
	0.00364	0.00368	0.00374

Passive power(pJ) for SE falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFX2H7H	0.00357	0.00358	0.00361
	0.00009	0.00010	0.00011
	-0.00009	-0.00009	-0.00006
	0.00259	0.00260	0.00262

Passive power(pJ) for SI rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFX2H7H	0.00163	0.00165	0.00167
	0.00015	0.00016	0.00016
	-0.00014	-0.00014	-0.00012
	0.00275	0.00277	0.00280

Passive power(pJ) for SI falling :

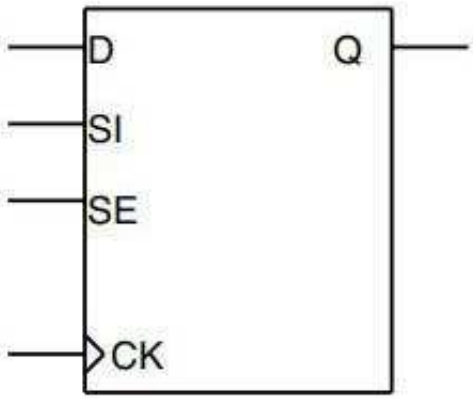
Cell Name	Power(pJ)		
	min	avg	max
SDFFX2H7H	0.00300	0.00302	0.00304
	-0.00016	-0.00016	-0.00015
	0.00012	0.00014	0.00014
	0.00189	0.00191	0.00194

SDFFX3H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Scan D Flip-Flop
Q = rising (CK) ? (SE&SI | !SE&D) : pre_Q
QN = !Q



Truth Table

INPUT				OUTPUT	
CK	D	SE	SI	Q	QN
R	0	0	x	0	1
R	x	1	0	0	1
R	x	1	1	1	0
R	1	0	x	1	0
x	x	x	x	IQ	IQN

Footprint

Cell Name	Area
SDFFX3H7H	11.20000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)	
	CK	**D**	**SE**	**SI**	**Q**	**QN**
SDFFX3H7H	0.00125	0.00086	0.00234	0.00087	0.09528	0.09459

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
SDFFX3H7H	0.00000	0.13445	0.15247

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFX3H7H	CK->Q (RR)	SE	0.18302	0.37257	0.81688
	CK->Q (RR)	!SE	0.18304	0.37260	0.81695

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFX3H7H	CK->Q (RF)	SE	0.14530	0.31120	0.67817
	CK->Q (RF)	!SE	0.14532	0.31121	0.67816

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFX3H7H	CK->QN (RR)	SE	0.22278	0.39380	0.82556
	CK->QN (RR)	!SE	0.22280	0.39381	0.82547

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFX3H7H	CK->QN (RF)	SE	0.24704	0.39338	0.74403
	CK->QN (RF)	!SE	0.24705	0.39341	0.74407

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
SDFFX3H7H	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFX3H7H	**hold**	**CK (R)**	-0.27817	-0.10836	0.00191
	setup	**CK (R)**	0.01577	0.12833	0.30547

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFX3H7H	**hold**	**CK (R)**	-0.30661	-0.08444	0.10675
	setup	**CK (R)**	-0.06459	0.13916	0.37004

Constraints(ns) for SE rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFX3H7H	**hold**	**CK (R)**	-0.24200	-0.08392	0.05833
	setup	**CK (R)**	0.00873	0.17491	0.32602

Constraints(ns) for SE falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFX3H7H	**hold**	**CK (R)**	-0.25962	-0.05794	0.12867
	setup	**CK (R)**	0.03883	0.14828	0.32845

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFX3H7H	hold	CK (R)	-0.28740	-0.11538	-0.00349
	setup	CK (R)	0.01958	0.13614	0.31736

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFX3H7H	hold	CK (R)	-0.34222	-0.11591	0.07780
	setup	CK (R)	-0.02943	0.17452	0.40876

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFX3H7H	CK	SE	0.00310	0.00323	0.00333
	CK	SE	0.00005	0.00007	0.00009
	CK	SE	-0.00005	-0.00004	-0.00003
	CK	SE	0.00362	0.00375	0.00384
	CK	!SE	0.00311	0.00323	0.00333
	CK	!SE	0.00004	0.00007	0.00009
	CK	!SE	-0.00005	-0.00004	-0.00003
	CK	!SE	0.00362	0.00374	0.00384

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFX3H7H	CK	SE	0.00310	0.00324	0.00336
	CK	SE	-0.00006	-0.00004	-0.00003
	CK	SE	0.00003	0.00006	0.00008
	CK	SE	0.00341	0.00355	0.00368
	CK	!SE	0.00310	0.00324	0.00336
	CK	!SE	-0.00005	-0.00004	-0.00003
	CK	!SE	0.00003	0.00006	0.00008
	CK	!SE	0.00341	0.00355	0.00368

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFX3H7H	CK	SE	0.00310	0.00324	0.00336
	CK	SE	-0.00006	-0.00004	-0.00001
	CK	SE	0.00003	0.00006	0.00007
	CK	SE	0.00342	0.00356	0.00368
	CK	!SE	0.00310	0.00324	0.00336
	CK	!SE	-0.00006	-0.00004	-0.00002
	CK	!SE	0.00003	0.00006	0.00008
	CK	!SE	0.00342	0.00356	0.00368

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFX3H7H	CK	SE	0.00312	0.00323	0.00333
	CK	SE	0.00005	0.00006	0.00007
	CK	SE	-0.00005	-0.00004	-0.00002
	CK	SE	0.00363	0.00374	0.00384
	CK	!SE	0.00312	0.00323	0.00333
	CK	!SE	0.00005	0.00006	0.00007
	CK	!SE	-0.00005	-0.00004	-0.00001
	CK	!SE	0.00363	0.00374	0.00384

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFX3H7H	0.00210	0.00215	0.00221
	0.00000	0.00000	0.00001
	0.00003	0.00003	0.00004
	0.00289	0.00294	0.00301

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFX3H7H	0.00493	0.00496	0.00499
	-0.00001	-0.00000	0.00000
	-0.00001	-0.00001	-0.00000
	0.00405	0.00408	0.00412

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFX3H7H	0.00204	0.00206	0.00207
	0.00018	0.00019	0.00020
	-0.00017	-0.00016	-0.00015
	0.00327	0.00329	0.00331

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFX3H7H	0.00289	0.00291	0.00293
	-0.00020	-0.00019	-0.00018
	0.00015	0.00016	0.00017
	0.00166	0.00167	0.00169

Passive power(pJ) for SE rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFX3H7H	0.00283	0.00289	0.00294
	-0.00013	-0.00011	-0.00010
	0.00009	0.00010	0.00013
	0.00375	0.00379	0.00384

Passive power(pJ) for SE falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFX3H7H	0.00360	0.00362	0.00364
	0.00010	0.00011	0.00013
	-0.00011	-0.00010	-0.00009
	0.00268	0.00270	0.00272

Passive power(pJ) for SI rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFX3H7H	0.00167	0.00169	0.00170
	0.00017	0.00017	0.00018
	-0.00015	-0.00014	-0.00014
	0.00281	0.00282	0.00284

Passive power(pJ) for SI falling :

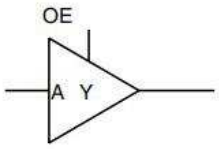
Cell Name	Power(pJ)		
	min	avg	max
SDFFX3H7H	0.00317	0.00319	0.00322
	-0.00018	-0.00017	-0.00017
	0.00014	0.00014	0.00015
	0.00204	0.00206	0.00208

TBUFX0P5H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The TBUF cell provides the logical buffer of a single input (A) with an active-high output enable (OE). The output (Y) is 3-stated when the enable is low. When the enable is high, the output is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	OE	Y
-	0	HiZ
0	1	0
1	1	1

Footprint

Cell Name	Area
TBUFX0P5H7H	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	OE	Y
TBUFX0P5H7H	0.00099	0.00146	0.01552

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
TBUFX0P5H7H	0.00000	0.01356	0.01696

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TBUFX0P5H7H	A->Y (RR)	0.07742	0.23643	0.62289
	OE->Y (FR)	0.02475	0.08150	0.23024
	OE->Y (RR)	0.05019	0.20258	0.57073

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TBUFX0P5H7H	A->Y (FF)	0.06904	0.19437	0.49176
	OE->Y (FF)	0.02571	0.08267	0.23023
	OE->Y (RF)	0.02493	0.15289	0.57379

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
TBUFX0P5H7H	A	0.00074	0.00077	0.00082
	A	-0.00005	-0.00005	-0.00004
	A	0.00004	0.00004	0.00004
	A	0.00118	0.00122	0.00126
	OE	0.00037	0.00040	0.00043
	OE	-0.00000	-0.00000	-0.00000
	OE	0.00002	0.00005	0.00005
	OE	0.00107	0.00110	0.00112

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
TBUFX0P5H7H	A	0.00098	0.00101	0.00105
	A	0.00004	0.00005	0.00005
	A	-0.00004	-0.00004	-0.00003
	A	0.00054	0.00057	0.00061
	OE	-0.00008	-0.00005	-0.00003
	OE	0.00010	0.00011	0.00011
	OE	-0.00005	-0.00004	-0.00002
	OE	0.00111	0.00114	0.00117

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX0P5H7H	!OE	-0.00002	0.00000	0.00004
	!OE	0.00004	0.00004	0.00005
	!OE	-0.00004	-0.00004	-0.00003
	!OE	0.00080	0.00082	0.00086

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX0P5H7H	!OE	0.00083	0.00086	0.00089
	!OE	-0.00005	-0.00004	-0.00004
	!OE	0.00003	0.00004	0.00004
	!OE	0.00001	0.00004	0.00006

Passive power(pJ) for OE rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX0P5H7H	(A * Y)	-0.00012	-0.00010	-0.00007
	(A * Y)	0.00003	0.00003	0.00004
	(A * Y)	0.00000	0.00000	0.00001
	(A * Y)	0.00080	0.00082	0.00085
	(!A * !Y)	-0.00013	-0.00010	-0.00007
	(!A * !Y)	0.00004	0.00005	0.00005
	(!A * !Y)	-0.00002	-0.00002	-0.00001
	(!A * !Y)	0.00089	0.00091	0.00093

Passive power(pJ) for OE falling (conditional):

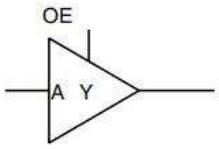
Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX0P5H7H	(A * Y)	0.00071	0.00073	0.00077
	(A * Y)	-0.00003	-0.00003	-0.00003
	(A * Y)	-0.00000	-0.00000	0.00000
	(A * Y)	-0.00022	-0.00019	-0.00017
	(!A * !Y)	0.00067	0.00069	0.00073
	(!A * !Y)	-0.00005	-0.00005	-0.00004
	(!A * !Y)	0.00002	0.00002	0.00002
	(!A * !Y)	-0.00034	-0.00032	-0.00028

TBUFX0P7H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The TBUF cell provides the logical buffer of a single input (A) with an active-high output enable (OE). The output (Y) is 3-stated when the enable is low. When the enable is high, the output is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	OE	Y
-	0	HiZ
0	1	0
1	1	1

Footprint

Cell Name	Area
TBUFX0P7H7H	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	OE	Y
TBUFX0P7H7H	0.00099	0.00148	0.01759

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
TBUFX0P7H7H	0.00000	0.01400	0.01832

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TBUFX0P7H7H	A->Y (RR)	0.07401	0.23396	0.62251
	OE->Y (FR)	0.02517	0.08190	0.23025
	OE->Y (RR)	0.04775	0.20076	0.57003

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TBUFX0P7H7H	A->Y (FF)	0.06825	0.19560	0.49836
	OE->Y (FF)	0.02626	0.08320	0.23024
	OE->Y (RF)	0.02280	0.15145	0.57673

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
TBUFX0P7H7H	A	0.00080	0.00084	0.00088
	A	-0.00006	-0.00006	-0.00006
	A	0.00004	0.00005	0.00005
	A	0.00121	0.00125	0.00130
	OE	0.00040	0.00043	0.00046
	OE	-0.00000	-0.00000	-0.00000
	OE	0.00005	0.00006	0.00006
	OE	0.00109	0.00112	0.00114

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
TBUFX0P7H7H	A	0.00100	0.00104	0.00108
	A	0.00006	0.00006	0.00006
	A	-0.00005	-0.00005	-0.00004
	A	0.00059	0.00062	0.00066
	OE	-0.00007	-0.00005	-0.00002
	OE	0.00012	0.00012	0.00012
	OE	-0.00005	-0.00005	-0.00004
	OE	0.00113	0.00117	0.00120

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX0P7H7H	!OE	-0.00001	0.00001	0.00004
	!OE	0.00005	0.00005	0.00005
	!OE	-0.00004	-0.00004	-0.00003
	!OE	0.00082	0.00085	0.00088

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX0P7H7H	!OE	0.00085	0.00087	0.00090
	!OE	-0.00005	-0.00005	-0.00005
	!OE	0.00003	0.00004	0.00004
	!OE	0.00002	0.00005	0.00008

Passive power(pJ) for OE rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX0P7H7H	(A * Y)	-0.00011	-0.00008	-0.00005
	(A * Y)	0.00003	0.00003	0.00004
	(A * Y)	0.00000	0.00001	0.00001
	(A * Y)	0.00082	0.00084	0.00087
	(!A * !Y)	-0.00012	-0.00010	-0.00007
	(!A * !Y)	0.00005	0.00006	0.00006
	(!A * !Y)	-0.00002	-0.00002	-0.00001
	(!A * !Y)	0.00090	0.00092	0.00095

Passive power(pJ) for OE falling (conditional):

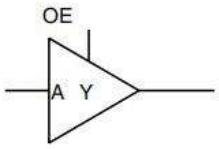
Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX0P7H7H	(A * Y)	0.00072	0.00075	0.00078
	(A * Y)	-0.00004	-0.00003	-0.00003
	(A * Y)	-0.00000	-0.00000	-0.00000
	(A * Y)	-0.00021	-0.00019	-0.00016
	(!A * !Y)	0.00068	0.00070	0.00074
	(!A * !Y)	-0.00006	-0.00005	-0.00005
	(!A * !Y)	0.00002	0.00002	0.00002
	(!A * !Y)	-0.00035	-0.00032	-0.00028

TBUFX12H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The TBUF cell provides the logical buffer of a single input (A) with an active-high output enable (OE). The output (Y) is 3-stated when the enable is low. When the enable is high, the output is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	OE	Y
-	0	HiZ
0	1	0
1	1	1

Footprint

Cell Name	Area
TBUFX12H7H	9.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	OE	Y
TBUFX12H7H	0.00272	0.00777	0.34470

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
TBUFX12H7H	0.00000	0.14432	0.22643

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TBUFX12H7H	A->Y (RR)	0.08636	0.27777	0.73950
	OE->Y (FR)	0.05599	0.11484	0.23244
	OE->Y (RR)	0.05229	0.23166	0.65945

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TBUFX12H7H	A->Y (FF)	0.11447	0.28283	0.67552
	OE->Y (FF)	0.02020	0.06421	0.14247
	OE->Y (RF)	0.09868	0.24767	0.57241

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
TBUFX12H7H	A	0.00394	0.00445	0.00482
	A	0.00041	0.00042	0.00044
	A	-0.00033	-0.00032	-0.00029
	A	0.00780	0.00831	0.00868
	OE	0.00254	0.00275	0.00303
	OE	0.00035	0.00036	0.00038
	OE	0.00005	0.00008	0.00010
	OE	0.00855	0.00877	0.00904

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
TBUFX12H7H	A	0.01005	0.01052	0.01089
	A	-0.00042	-0.00042	-0.00040
	A	0.00030	0.00032	0.00034
	A	0.00619	0.00666	0.00704
	OE	0.00646	0.00661	0.00690
	OE	0.00022	0.00026	0.00029
	OE	0.00012	0.00013	0.00014
	OE	0.01051	0.01072	0.01122

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX12H7H	!OE	-0.00054	-0.00053	-0.00053
	!OE	-0.00003	-0.00003	-0.00003
	!OE	0.00001	0.00001	0.00002
	!OE	0.00079	0.00080	0.00080

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX12H7H	!OE	0.00053	0.00054	0.00054
	!OE	0.00003	0.00003	0.00003
	!OE	-0.00001	-0.00001	-0.00001
	!OE	-0.00080	-0.00080	-0.00079

Passive power(pJ) for OE rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX12H7H	(A * Y)	-0.00037	-0.00018	0.00013
	(A * Y)	0.00076	0.00080	0.00084
	(A * Y)	-0.00025	-0.00025	-0.00024
	(A * Y)	0.00640	0.00660	0.00688
	(!A * !Y)	0.00452	0.00467	0.00498
	(!A * !Y)	-0.00016	-0.00014	-0.00014
	(!A * !Y)	0.00041	0.00046	0.00049
	(!A * !Y)	0.00790	0.00805	0.00834

Passive power(pJ) for OE falling (conditional):

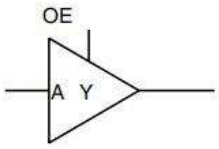
Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX12H7H	(A * Y)	0.00840	0.00860	0.00885
	(A * Y)	-0.00084	-0.00080	-0.00076
	(A * Y)	0.00025	0.00025	0.00026
	(A * Y)	0.00160	0.00179	0.00204
	(!A * !Y)	0.00684	0.00691	0.00699
	(!A * !Y)	0.00014	0.00016	0.00020
	(!A * !Y)	-0.00049	-0.00046	-0.00041
	(!A * !Y)	0.00350	0.00360	0.00371

TBUFX16H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The TBUF cell provides the logical buffer of a single input (A) with an active-high output enable (OE). The output (Y) is 3-stated when the enable is low. When the enable is high, the output is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	OE	Y
-	0	HiZ
0	1	0
1	1	1

Footprint

Cell Name	Area
TBUFX16H7H	13.72000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	OE	Y
TBUFX16H7H	0.00382	0.01077	0.45495

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
TBUFX16H7H	0.00000	0.20382	0.28341

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TBUFX16H7H	A->Y (RR)	0.08250	0.27281	0.73306
	OE->Y (FR)	0.05412	0.11265	0.22910
	OE->Y (RR)	0.04895	0.22603	0.64904

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TBUFX16H7H	A->Y (FF)	0.10933	0.27482	0.66023
	OE->Y (FF)	0.02042	0.06427	0.14230
	OE->Y (RF)	0.09553	0.24262	0.56342

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
TBUFX16H7H	A	0.00522	0.00591	0.00642
	A	0.00060	0.00061	0.00062
	A	-0.00047	-0.00047	-0.00041
	A	0.01075	0.01142	0.01194
	OE	0.00329	0.00358	0.00398
	OE	0.00051	0.00054	0.00054
	OE	0.00003	0.00009	0.00011
	OE	0.01173	0.01202	0.01238

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
TBUFX16H7H	A	0.01383	0.01448	0.01497
	A	-0.00062	-0.00061	-0.00059
	A	0.00046	0.00047	0.00049
	A	0.00831	0.00894	0.00945
	OE	0.00894	0.00914	0.00958
	OE	0.00032	0.00035	0.00039
	OE	0.00017	0.00019	0.00021
	OE	0.01447	0.01475	0.01531

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX16H7H	!OE	-0.00079	-0.00079	-0.00078
	!OE	-0.00005	-0.00005	-0.00005
	!OE	0.00002	0.00002	0.00003
	!OE	0.00108	0.00109	0.00109

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX16H7H	!OE	0.00078	0.00079	0.00080
	!OE	0.00005	0.00005	0.00005
	!OE	-0.00002	-0.00002	-0.00002
	!OE	-0.00109	-0.00109	-0.00108

Passive power(pJ) for OE rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX16H7H	(A * Y)	-0.00061	-0.00036	-0.00009
	(A * Y)	0.00104	0.00113	0.00124
	(A * Y)	-0.00037	-0.00035	-0.00035
	(A * Y)	0.00885	0.00909	0.00945
	(!A * !Y)	0.00638	0.00658	0.00703
	(!A * !Y)	-0.00021	-0.00019	-0.00019
	(!A * !Y)	0.00059	0.00068	0.00075
	(!A * !Y)	0.01097	0.01116	0.01163

Passive power(pJ) for OE falling (conditional):

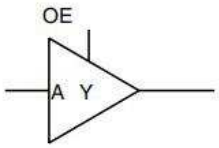
Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX16H7H	(A * Y)	0.01143	0.01173	0.01215
	(A * Y)	-0.00124	-0.00113	-0.00104
	(A * Y)	0.00035	0.00036	0.00037
	(A * Y)	0.00198	0.00224	0.00260
	(!A * !Y)	0.00943	0.00954	0.00965
	(!A * !Y)	0.00019	0.00021	0.00027
	(!A * !Y)	-0.00072	-0.00067	-0.00059
	(!A * !Y)	0.00486	0.00497	0.00513

TBUFX1H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The TBUF cell provides the logical buffer of a single input (A) with an active-high output enable (OE). The output (Y) is 3-stated when the enable is low. When the enable is high, the output is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	OE	Y
-	0	HiZ
0	1	0
1	1	1

Footprint

Cell Name	Area
TBUFX1H7H	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	OE	Y
TBUFX1H7H	0.00100	0.00151	0.02123

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
TBUFX1H7H	0.00000	0.01493	0.02156

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TBUFX1H7H	A->Y (RR)	0.07061	0.23376	0.63097
	OE->Y (FR)	0.02592	0.08263	0.23025
	OE->Y (RR)	0.04566	0.20161	0.57834

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TBUFX1H7H	A->Y (FF)	0.06825	0.20097	0.51815
	OE->Y (FF)	0.02724	0.08438	0.23025
	OE->Y (RF)	0.02088	0.15361	0.59205

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
TBUFX1H7H	A	0.00091	0.00095	0.00100
	A	-0.00007	-0.00007	-0.00007
	A	0.00006	0.00006	0.00006
	A	0.00129	0.00133	0.00138
	OE	0.00047	0.00049	0.00052
	OE	-0.00001	-0.00001	-0.00000
	OE	0.00007	0.00007	0.00007
	OE	0.00114	0.00116	0.00119

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
TBUFX1H7H	A	0.00104	0.00108	0.00112
	A	0.00007	0.00007	0.00007
	A	-0.00006	-0.00006	-0.00006
	A	0.00067	0.00070	0.00075
	OE	-0.00007	-0.00004	-0.00001
	OE	0.00013	0.00014	0.00014
	OE	-0.00007	-0.00005	-0.00004
	OE	0.00117	0.00122	0.00125

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX1H7H	!OE	0.00001	0.00003	0.00007
	!OE	0.00005	0.00006	0.00006
	!OE	-0.00004	-0.00004	-0.00004
	!OE	0.00086	0.00088	0.00092

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX1H7H	!OE	0.00087	0.00089	0.00092
	!OE	-0.00006	-0.00005	-0.00005
	!OE	0.00004	0.00004	0.00004
	!OE	0.00003	0.00005	0.00008

Passive power(pJ) for OE rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX1H7H	(A * Y)	-0.00009	-0.00007	-0.00005
	(A * Y)	0.00003	0.00004	0.00005
	(A * Y)	0.00001	0.00001	0.00002
	(A * Y)	0.00084	0.00086	0.00090
	(!A * !Y)	-0.00012	-0.00010	-0.00007
	(!A * !Y)	0.00006	0.00006	0.00007
	(!A * !Y)	-0.00002	-0.00002	-0.00001
	(!A * !Y)	0.00093	0.00095	0.00099

Passive power(pJ) for OE falling (conditional):

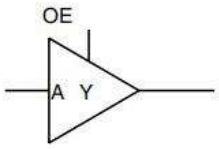
Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX1H7H	(A * Y)	0.00073	0.00076	0.00081
	(A * Y)	-0.00005	-0.00004	-0.00003
	(A * Y)	-0.00001	-0.00001	-0.00000
	(A * Y)	-0.00021	-0.00019	-0.00015
	(!A * !Y)	0.00070	0.00072	0.00076
	(!A * !Y)	-0.00007	-0.00006	-0.00006
	(!A * !Y)	0.00002	0.00002	0.00002
	(!A * !Y)	-0.00035	-0.00032	-0.00029

TBUFX1P4H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The TBUF cell provides the logical buffer of a single input (A) with an active-high output enable (OE). The output (Y) is 3-stated when the enable is low. When the enable is high, the output is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	OE	Y
-	0	HiZ
0	1	0
1	1	1

Footprint

Cell Name	Area
TBUFX1P4H7H	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	OE	Y
TBUFX1P4H7H	0.00098	0.00153	0.02415

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
TBUFX1P4H7H	0.00000	0.01610	0.02553

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TBUFX1P4H7H	A->Y (RR)	0.06899	0.23370	0.63476
	OE->Y (FR)	0.02647	0.08313	0.23026
	OE->Y (RR)	0.04389	0.20100	0.58095

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TBUFX1P4H7H	A->Y (FF)	0.06832	0.20294	0.52527
	OE->Y (FF)	0.02801	0.08542	0.23025
	OE->Y (RF)	0.01964	0.15291	0.59459

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
TBUFX1P4H7H	A	0.00100	0.00105	0.00110
	A	-0.00010	-0.00009	-0.00009
	A	0.00007	0.00007	0.00008
	A	0.00133	0.00137	0.00142
	OE	0.00051	0.00053	0.00056
	OE	-0.00002	-0.00002	-0.00002
	OE	0.00008	0.00008	0.00009
	OE	0.00117	0.00119	0.00122

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
TBUFX1P4H7H	A	0.00108	0.00112	0.00116
	A	0.00009	0.00009	0.00010
	A	-0.00008	-0.00007	-0.00007
	A	0.00076	0.00080	0.00086
	OE	-0.00006	-0.00003	-0.00001
	OE	0.00015	0.00015	0.00016
	OE	-0.00006	-0.00005	-0.00001
	OE	0.00120	0.00127	0.00130

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX1P4H7H	!OE	0.00003	0.00006	0.00009
	!OE	0.00005	0.00006	0.00006
	!OE	-0.00004	-0.00004	-0.00004
	!OE	0.00087	0.00090	0.00094

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX1P4H7H	!OE	0.00089	0.00091	0.00094
	!OE	-0.00006	-0.00006	-0.00005
	!OE	0.00004	0.00004	0.00004
	!OE	0.00005	0.00008	0.00011

Passive power(pJ) for OE rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX1P4H7H	(A * Y)	-0.00008	-0.00006	-0.00003
	(A * Y)	0.00003	0.00004	0.00005
	(A * Y)	0.00001	0.00001	0.00001
	(A * Y)	0.00087	0.00089	0.00092
	(!A * !Y)	-0.00012	-0.00010	-0.00007
	(!A * !Y)	0.00007	0.00007	0.00008
	(!A * !Y)	-0.00002	-0.00002	-0.00001
	(!A * !Y)	0.00096	0.00098	0.00101

Passive power(pJ) for OE falling (conditional):

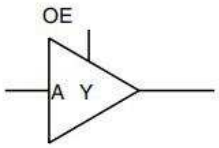
Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX1P4H7H	(A * Y)	0.00075	0.00078	0.00083
	(A * Y)	-0.00005	-0.00004	-0.00003
	(A * Y)	-0.00001	-0.00001	-0.00001
	(A * Y)	-0.00021	-0.00018	-0.00015
	(!A * !Y)	0.00071	0.00073	0.00077
	(!A * !Y)	-0.00007	-0.00007	-0.00006
	(!A * !Y)	0.00002	0.00002	0.00002
	(!A * !Y)	-0.00036	-0.00033	-0.00030

TBUFX2H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The TBUF cell provides the logical buffer of a single input (A) with an active-high output enable (OE). The output (Y) is 3-stated when the enable is low. When the enable is high, the output is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	OE	Y
-	0	HiZ
0	1	0
1	1	1

Footprint

Cell Name	Area
TBUFX2H7H	3.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	OE	Y
TBUFX2H7H	0.00095	0.00180	0.03115

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
TBUFX2H7H	0.00000	0.01639	0.02339

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TBUFX2H7H	A->Y (RR)	0.07907	0.25039	0.66798
	OE->Y (FR)	0.03029	0.08794	0.23035
	OE->Y (RR)	0.04488	0.20584	0.59514

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TBUFX2H7H	A->Y (FF)	0.07723	0.21411	0.54217
	OE->Y (FF)	0.03234	0.09139	0.23036
	OE->Y (RF)	0.01656	0.14138	0.57078

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
TBUFX2H7H	A	0.00161	0.00167	0.00172
	A	-0.00011	-0.00011	-0.00011
	A	0.00007	0.00010	0.00010
	A	0.00175	0.00180	0.00186
	OE	0.00071	0.00074	0.00078
	OE	-0.00002	-0.00002	-0.00002
	OE	0.00011	0.00011	0.00011
	OE	0.00140	0.00143	0.00146

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
TBUFX2H7H	A	0.00138	0.00142	0.00147
	A	0.00011	0.00011	0.00011
	A	-0.00010	-0.00010	-0.00007
	A	0.00126	0.00131	0.00136
	OE	-0.00003	-0.00001	0.00003
	OE	0.00019	0.00019	0.00019
	OE	-0.00009	-0.00006	-0.00002
	OE	0.00148	0.00153	0.00158

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX2H7H	!OE	0.00011	0.00013	0.00016
	!OE	0.00006	0.00007	0.00007
	!OE	-0.00005	-0.00005	-0.00005
	!OE	0.00093	0.00096	0.00100

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX2H7H	!OE	0.00108	0.00110	0.00114
	!OE	-0.00007	-0.00007	-0.00006
	!OE	0.00005	0.00005	0.00006
	!OE	0.00026	0.00028	0.00031

Passive power(pJ) for OE rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX2H7H	(A * Y)	-0.00001	0.00002	0.00006
	(A * Y)	0.00004	0.00005	0.00005
	(A * Y)	0.00002	0.00002	0.00002
	(A * Y)	0.00108	0.00110	0.00113
	(!A * !Y)	-0.00010	-0.00007	-0.00004
	(!A * !Y)	0.00008	0.00009	0.00009
	(!A * !Y)	-0.00002	-0.00002	-0.00001
	(!A * !Y)	0.00117	0.00120	0.00124

Passive power(pJ) for OE falling (conditional):

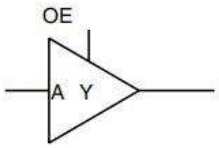
Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX2H7H	(A * Y)	0.00081	0.00085	0.00090
	(A * Y)	-0.00005	-0.00005	-0.00004
	(A * Y)	-0.00002	-0.00001	0.00000
	(A * Y)	-0.00028	-0.00026	-0.00024
	(!A * !Y)	0.00080	0.00082	0.00086
	(!A * !Y)	-0.00008	-0.00008	-0.00008
	(!A * !Y)	0.00001	0.00002	0.00002
	(!A * !Y)	-0.00047	-0.00044	-0.00039

TBUFX3H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The TBUF cell provides the logical buffer of a single input (A) with an active-high output enable (OE). The output (Y) is 3-stated when the enable is low. When the enable is high, the output is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	OE	Y
-	0	HiZ
0	1	0
1	1	1

Footprint

Cell Name	Area
TBUFX3H7H	4.20000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	OE	Y
TBUFX3H7H	0.00093	0.00251	0.08639

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
TBUFX3H7H	0.00000	0.04231	0.05134

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TBUFX3H7H	A->Y (RR)	0.08473	0.27094	0.72456
	OE->Y (FR)	0.05867	0.11826	0.23856
	OE->Y (RR)	0.05424	0.23031	0.65419

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TBUFX3H7H	A->Y (FF)	0.10680	0.26809	0.65031
	OE->Y (FF)	0.02323	0.06998	0.15477
	OE->Y (RF)	0.09581	0.24044	0.56436

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
TBUFX3H7H	A	0.00107	0.00120	0.00130
	A	0.00014	0.00014	0.00014
	A	-0.00011	-0.00011	-0.00010
	A	0.00231	0.00244	0.00253
	OE	0.00070	0.00076	0.00085
	OE	0.00013	0.00013	0.00013
	OE	0.00000	0.00000	0.00001
	OE	0.00265	0.00271	0.00279

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
TBUFX3H7H	A	0.00313	0.00325	0.00335
	A	-0.00014	-0.00014	-0.00014
	A	0.00010	0.00011	0.00011
	A	0.00189	0.00201	0.00211
	OE	0.00198	0.00203	0.00213
	OE	0.00006	0.00006	0.00007
	OE	0.00005	0.00005	0.00005
	OE	0.00329	0.00334	0.00348

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX3H7H	!OE	-0.00019	-0.00019	-0.00019
	!OE	-0.00001	-0.00001	-0.00001
	!OE	0.00000	0.00001	0.00001
	!OE	0.00025	0.00025	0.00025

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX3H7H	!OE	0.00019	0.00019	0.00019
	!OE	0.00001	0.00001	0.00001
	!OE	-0.00001	-0.00001	-0.00000
	!OE	-0.00025	-0.00025	-0.00025

Passive power(pJ) for OE rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX3H7H	(A * Y)	-0.00014	-0.00008	0.00002
	(A * Y)	0.00022	0.00024	0.00026
	(A * Y)	-0.00008	-0.00008	-0.00007
	(A * Y)	0.00201	0.00206	0.00214
	(!A * !Y)	0.00148	0.00152	0.00163
	(!A * !Y)	-0.00004	-0.00003	-0.00001
	(!A * !Y)	0.00013	0.00014	0.00016
	(!A * !Y)	0.00260	0.00264	0.00275

Passive power(pJ) for OE falling (conditional):

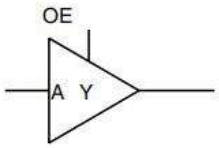
Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX3H7H	(A * Y)	0.00291	0.00297	0.00304
	(A * Y)	-0.00026	-0.00024	-0.00022
	(A * Y)	0.00008	0.00008	0.00008
	(A * Y)	0.00076	0.00082	0.00090
	(!A * !Y)	0.00235	0.00240	0.00247
	(!A * !Y)	0.00001	0.00003	0.00005
	(!A * !Y)	-0.00015	-0.00014	-0.00013
	(!A * !Y)	0.00123	0.00128	0.00134

TBUFX4H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The TBUF cell provides the logical buffer of a single input (A) with an active-high output enable (OE). The output (Y) is 3-stated when the enable is low. When the enable is high, the output is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	OE	Y
-	0	HiZ
0	1	0
1	1	1

Footprint

Cell Name	Area
TBUFX4H7H	4.76000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	OE	Y
TBUFX4H7H	0.00100	0.00318	0.10880

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
TBUFX4H7H	0.00000	0.05194	0.05912

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TBUFX4H7H	A->Y (RR)	0.08678	0.27641	0.73838
	OE->Y (FR)	0.06221	0.12432	0.25216
	OE->Y (RR)	0.05062	0.22037	0.62713

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TBUFX4H7H	A->Y (FF)	0.11519	0.27596	0.65339
	OE->Y (FF)	0.02328	0.07134	0.16020
	OE->Y (RF)	0.10454	0.24872	0.56659

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
TBUFX4H7H	A	0.00140	0.00156	0.00169
	A	0.00016	0.00017	0.00018
	A	-0.00014	-0.00014	-0.00014
	A	0.00293	0.00310	0.00322
	OE	0.00089	0.00097	0.00108
	OE	0.00014	0.00015	0.00015
	OE	0.00000	0.00001	0.00003
	OE	0.00334	0.00342	0.00352

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
TBUFX4H7H	A	0.00397	0.00413	0.00425
	A	-0.00017	-0.00016	-0.00015
	A	0.00014	0.00014	0.00015
	A	0.00244	0.00259	0.00271
	OE	0.00274	0.00281	0.00301
	OE	0.00008	0.00009	0.00011
	OE	0.00006	0.00006	0.00007
	OE	0.00432	0.00440	0.00462

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX4H7H	!OE	-0.00022	-0.00022	-0.00022
	!OE	-0.00001	-0.00001	-0.00001
	!OE	0.00001	0.00001	0.00001
	!OE	0.00025	0.00025	0.00026

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX4H7H	!OE	0.00022	0.00022	0.00022
	!OE	0.00001	0.00001	0.00001
	!OE	-0.00001	-0.00001	-0.00000
	!OE	-0.00025	-0.00025	-0.00025

Passive power(pJ) for OE rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX4H7H	(A * Y)	-0.00018	-0.00011	-0.00003
	(A * Y)	0.00027	0.00029	0.00033
	(A * Y)	-0.00010	-0.00009	-0.00008
	(A * Y)	0.00252	0.00259	0.00270
	(!A * !Y)	0.00209	0.00216	0.00237
	(!A * !Y)	-0.00005	-0.00004	-0.00003
	(!A * !Y)	0.00017	0.00018	0.00018
	(!A * !Y)	0.00343	0.00350	0.00371

Passive power(pJ) for OE falling (conditional):

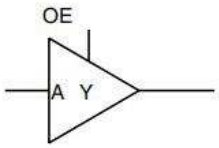
Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX4H7H	(A * Y)	0.00364	0.00372	0.00383
	(A * Y)	-0.00030	-0.00029	-0.00027
	(A * Y)	0.00008	0.00010	0.00010
	(A * Y)	0.00094	0.00102	0.00114
	(!A * !Y)	0.00304	0.00310	0.00318
	(!A * !Y)	0.00003	0.00004	0.00005
	(!A * !Y)	-0.00018	-0.00018	-0.00017
	(!A * !Y)	0.00170	0.00176	0.00184

TBUFX6H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The TBUF cell provides the logical buffer of a single input (A) with an active-high output enable (OE). The output (Y) is 3-stated when the enable is low. When the enable is high, the output is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	OE	Y
-	0	HiZ
0	1	0
1	1	1

Footprint

Cell Name	Area
TBUFX6H7H	7.28000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	OE	Y
TBUFX6H7H	0.00169	0.00472	0.17334

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
TBUFX6H7H	0.00000	0.07825	0.11232

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TBUFX6H7H	A->Y (RR)	0.09017	0.28015	0.73723
	OE->Y (FR)	0.06393	0.12438	0.24764
	OE->Y (RR)	0.05847	0.23794	0.66829

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TBUFX6H7H	A->Y (FF)	0.11954	0.28790	0.68117
	OE->Y (FF)	0.02163	0.06591	0.14448
	OE->Y (RF)	0.10499	0.25536	0.58417

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
TBUFX6H7H	A	0.00186	0.00210	0.00227
	A	0.00019	0.00020	0.00020
	A	-0.00015	-0.00014	-0.00014
	A	0.00409	0.00432	0.00450
	OE	0.00113	0.00126	0.00141
	OE	0.00017	0.00017	0.00018
	OE	0.00004	0.00005	0.00006
	OE	0.00472	0.00485	0.00500

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
TBUFX6H7H	A	0.00538	0.00560	0.00579
	A	-0.00020	-0.00020	-0.00019
	A	0.00014	0.00015	0.00016
	A	0.00315	0.00337	0.00356
	OE	0.00331	0.00340	0.00354
	OE	0.00012	0.00013	0.00015
	OE	0.00004	0.00006	0.00007
	OE	0.00580	0.00590	0.00607

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX6H7H	!OE	-0.00032	-0.00032	-0.00031
	!OE	-0.00002	-0.00002	-0.00002
	!OE	0.00001	0.00001	0.00001
	!OE	0.00051	0.00051	0.00051

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX6H7H	!OE	0.00031	0.00032	0.00032
	!OE	0.00002	0.00002	0.00002
	!OE	-0.00001	-0.00001	-0.00000
	!OE	-0.00051	-0.00051	-0.00051

Passive power(pJ) for OE rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX6H7H	(A * Y)	-0.00026	-0.00015	-0.00004
	(A * Y)	0.00037	0.00039	0.00040
	(A * Y)	-0.00012	-0.00011	-0.00010
	(A * Y)	0.00372	0.00382	0.00395
	(!A * !Y)	0.00246	0.00254	0.00268
	(!A * !Y)	-0.00008	-0.00007	-0.00007
	(!A * !Y)	0.00020	0.00022	0.00024
	(!A * !Y)	0.00459	0.00467	0.00481

Passive power(pJ) for OE falling (conditional):

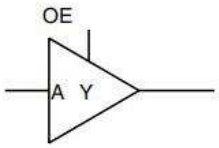
Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX6H7H	(A * Y)	0.00499	0.00511	0.00525
	(A * Y)	-0.00040	-0.00039	-0.00037
	(A * Y)	0.00012	0.00013	0.00017
	(A * Y)	0.00100	0.00111	0.00122
	(!A * !Y)	0.00405	0.00411	0.00422
	(!A * !Y)	0.00007	0.00007	0.00010
	(!A * !Y)	-0.00024	-0.00022	-0.00020
	(!A * !Y)	0.00193	0.00200	0.00212

TBUFX8H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The TBUF cell provides the logical buffer of a single input (A) with an active-high output enable (OE). The output (Y) is 3-stated when the enable is low. When the enable is high, the output is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	OE	Y
-	0	HiZ
0	1	0
1	1	1

Footprint

Cell Name	Area
TBUFX8H7H	7.28000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	OE	Y
TBUFX8H7H	0.00198	0.00571	0.22896

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
TBUFX8H7H	0.00000	0.11754	0.16364

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TBUFX8H7H	A->Y (RR)	0.07768	0.26572	0.72073
	OE->Y (FR)	0.05332	0.11158	0.22739
	OE->Y (RR)	0.04767	0.22383	0.64759

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TBUFX8H7H	A->Y (FF)	0.10081	0.26506	0.65077
	OE->Y (FF)	0.01983	0.06175	0.13493
	OE->Y (RF)	0.08821	0.23399	0.55602

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
TBUFX8H7H	A	0.00239	0.00269	0.00292
	A	0.00031	0.00033	0.00034
	A	-0.00025	-0.00024	-0.00022
	A	0.00521	0.00551	0.00574
	OE	0.00140	0.00158	0.00179
	OE	0.00028	0.00029	0.00030
	OE	0.00001	0.00003	0.00004
	OE	0.00590	0.00605	0.00624

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
TBUFX8H7H	A	0.00677	0.00706	0.00729
	A	-0.00033	-0.00033	-0.00031
	A	0.00024	0.00025	0.00026
	A	0.00394	0.00423	0.00446
	OE	0.00420	0.00430	0.00451
	OE	0.00015	0.00017	0.00019
	OE	0.00009	0.00010	0.00011
	OE	0.00720	0.00731	0.00753

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX8H7H	!OE	-0.00041	-0.00041	-0.00041
	!OE	-0.00003	-0.00003	-0.00002
	!OE	0.00001	0.00001	0.00002
	!OE	0.00054	0.00054	0.00054

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX8H7H	!OE	0.00041	0.00041	0.00041
	!OE	0.00002	0.00003	0.00003
	!OE	-0.00002	-0.00001	-0.00001
	!OE	-0.00054	-0.00054	-0.00053

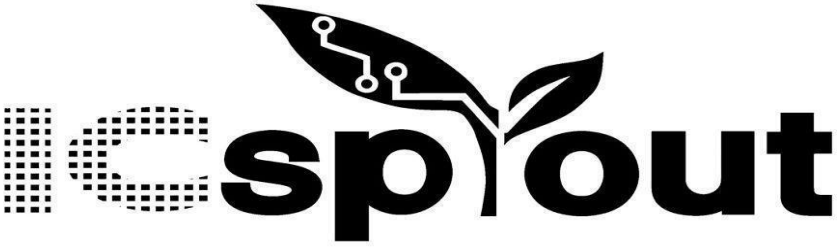
Passive power(pJ) for OE rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX8H7H	(A * Y)	-0.00037	-0.00022	-0.00000
	(A * Y)	0.00053	0.00057	0.00059
	(A * Y)	-0.00019	-0.00018	-0.00018
	(A * Y)	0.00462	0.00474	0.00491
	(!A * !Y)	0.00309	0.00320	0.00341
	(!A * !Y)	-0.00010	-0.00009	-0.00006
	(!A * !Y)	0.00029	0.00034	0.00036
	(!A * !Y)	0.00558	0.00570	0.00592

Passive power(pJ) for OE falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX8H7H	(A * Y)	0.00587	0.00601	0.00618
	(A * Y)	-0.00059	-0.00057	-0.00053
	(A * Y)	0.00018	0.00019	0.00019
	(A * Y)	0.00089	0.00103	0.00121
	(!A * !Y)	0.00481	0.00489	0.00501
	(!A * !Y)	0.00006	0.00010	0.00012
	(!A * !Y)	-0.00036	-0.00034	-0.00029
	(!A * !Y)	0.00232	0.00240	0.00248

TIEHIH7H



tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Footprint

Cell Name	Area
TIEHIH7H	1.12000

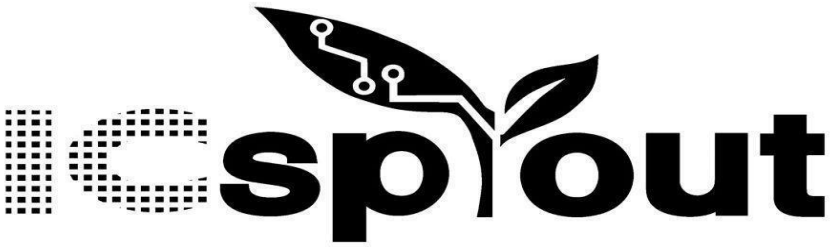
Pin Capacitance Information

Cell Name	Max Cap(pf)
	Y
TIEHIH7H	0.19990

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
TIEHIH7H	0.00000	0.00106	0.00106

TIELOH7H



tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Footprint

Cell Name	Area
TIELOH7H	1.12000

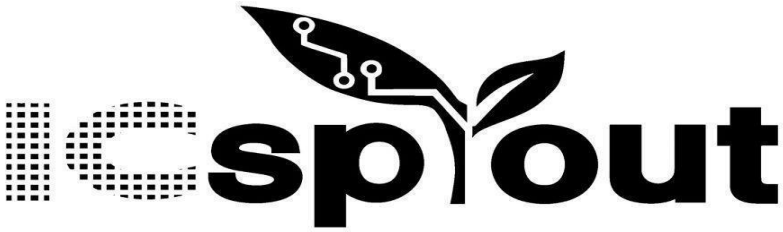
Pin Capacitance Information

Cell Name	Max Cap(pf)
	Y
TIELOH7H	0.36482

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
TIELOH7H	0.00000	0.00245	0.00245

TINVX0P5H7H



tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

3-State Inverter with High Enable

Truth Table

INPUT		OUTPUT
A	OE	Y
-	0	HiZ
0	1	1
1	1	0

Footprint

Cell Name	Area
TINVX0P5H7H	1.68000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	OE	Y
TINVX0P5H7H	0.00076	0.00151	0.01561

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
TINVX0P5H7H	0.00000	0.00774	0.01372

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TINVX0P5H7H	A->Y (FR)	0.05022	0.22902	0.74601
	OE->Y (FR)	0.02809	0.08465	0.23019
	OE->Y (RR)	0.04994	0.20531	0.58103

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TINVX0P5H7H	A->Y (RF)	0.03282	0.16489	0.56829
	OE->Y (FF)	0.02915	0.08639	0.23019
	OE->Y (RF)	0.02285	0.15007	0.57286

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
TINVX0P5H7H	A	0.00076	0.00078	0.00079
	A	-0.00007	-0.00007	-0.00006
	A	0.00006	0.00006	0.00006
	A	-0.00004	-0.00002	-0.00001
	OE	0.00030	0.00032	0.00036
	OE	-0.00000	-0.00000	-0.00000
	OE	0.00004	0.00005	0.00005
	OE	0.00107	0.00110	0.00113

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
TINVX0P5H7H	A	-0.00008	-0.00007	-0.00006
	A	0.00006	0.00007	0.00007
	A	-0.00006	-0.00006	-0.00006
	A	0.00071	0.00074	0.00075
	OE	-0.00014	-0.00012	-0.00008
	OE	0.00010	0.00011	0.00011
	OE	-0.00005	-0.00004	-0.00001
	OE	0.00113	0.00117	0.00123

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX0P5H7H	!OE	-0.00018	-0.00017	-0.00016
	!OE	-0.00002	-0.00002	-0.00002
	!OE	0.00001	0.00001	0.00001
	!OE	0.00021	0.00021	0.00021

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX0P5H7H	!OE	0.00018	0.00018	0.00018
	!OE	0.00002	0.00002	0.00002
	!OE	-0.00001	-0.00001	-0.00001
	!OE	-0.00021	-0.00020	-0.00019

Passive power(pJ) for OE rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX0P5H7H	(A * !Y)	-0.00015	-0.00012	-0.00009
	(A * !Y)	0.00005	0.00005	0.00005
	(A * !Y)	-0.00002	-0.00002	-0.00001
	(A * !Y)	0.00096	0.00099	0.00102
	(!A * Y)	-0.00011	-0.00009	-0.00005
	(!A * Y)	0.00002	0.00003	0.00003
	(!A * Y)	0.00000	0.00000	0.00001
	(!A * Y)	0.00087	0.00089	0.00092

Passive power(pJ) for OE falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX0P5H7H	(A * !Y)	0.00078	0.00081	0.00084
	(A * !Y)	-0.00005	-0.00005	-0.00005
	(A * !Y)	0.00002	0.00002	0.00002
	(A * !Y)	-0.00033	-0.00030	-0.00026
	(!A * Y)	0.00080	0.00083	0.00086
	(!A * Y)	-0.00003	-0.00003	-0.00002
	(!A * Y)	-0.00000	-0.00000	0.00000
	(!A * Y)	-0.00019	-0.00016	-0.00013

TINVX0P7H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

3-State Inverter with High Enable

Truth Table

INPUT		OUTPUT
A	OE	Y
-	0	HiZ
0	1	1
1	1	0

Footprint

Cell Name	Area
TINVX0P7H7H	1.68000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	OE	Y
TINVX0P7H7H	0.00078	0.00149	0.01758

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
TINVX0P7H7H	0.00000	0.00818	0.01358

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TINVX0P7H7H	A->Y (FR)	0.04698	0.22510	0.74188
	OE->Y (FR)	0.02653	0.08317	0.23019
	OE->Y (RR)	0.04641	0.20059	0.57310

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TINVX0P7H7H	A->Y (RF)	0.03118	0.16477	0.57462
	OE->Y (FF)	0.02764	0.08489	0.23019
	OE->Y (RF)	0.02099	0.14833	0.57422

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
TINVX0P7H7H	A	0.00081	0.00084	0.00086
	A	-0.00008	-0.00008	-0.00007
	A	0.00007	0.00007	0.00007
	A	-0.00001	0.00001	0.00002
	OE	0.00034	0.00036	0.00039
	OE	-0.00000	-0.00000	-0.00000
	OE	0.00005	0.00006	0.00006
	OE	0.00100	0.00102	0.00105

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
TINVX0P7H7H	A	-0.00009	-0.00008	-0.00007
	A	0.00007	0.00008	0.00008
	A	-0.00007	-0.00007	-0.00007
	A	0.00073	0.00076	0.00077
	OE	-0.00013	-0.00011	-0.00008
	OE	0.00012	0.00012	0.00012
	OE	-0.00005	-0.00004	-0.00000
	OE	0.00109	0.00113	0.00116

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX0P7H7H	!OE	-0.00016	-0.00015	-0.00014
	!OE	-0.00003	-0.00002	-0.00002
	!OE	0.00001	0.00001	0.00001
	!OE	0.00021	0.00021	0.00021

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX0P7H7H	!OE	0.00016	0.00016	0.00016
	!OE	0.00002	0.00002	0.00003
	!OE	-0.00001	-0.00001	-0.00001
	!OE	-0.00021	-0.00020	-0.00019

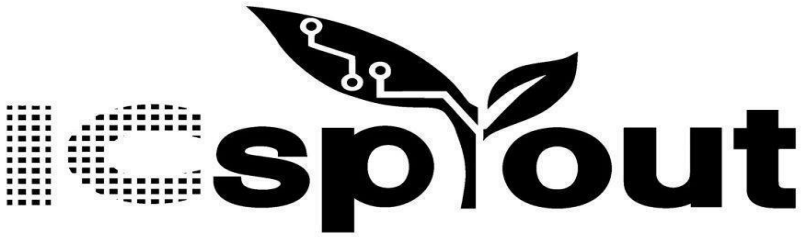
Passive power(pJ) for OE rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX0P7H7H	(A * !Y)	-0.00014	-0.00011	-0.00009
	(A * !Y)	0.00006	0.00006	0.00006
	(A * !Y)	-0.00002	-0.00002	-0.00001
	(A * !Y)	0.00091	0.00093	0.00096
	(!A * Y)	-0.00009	-0.00007	-0.00003
	(!A * Y)	0.00002	0.00003	0.00004
	(!A * Y)	0.00000	0.00001	0.00001
	(!A * Y)	0.00080	0.00083	0.00085

Passive power(pJ) for OE falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX0P7H7H	(A * !Y)	0.00074	0.00076	0.00079
	(A * !Y)	-0.00006	-0.00006	-0.00006
	(A * !Y)	0.00002	0.00002	0.00002
	(A * !Y)	-0.00031	-0.00028	-0.00025
	(!A * Y)	0.00075	0.00078	0.00082
	(!A * Y)	-0.00004	-0.00003	-0.00002
	(!A * Y)	-0.00001	-0.00000	-0.00000
	(!A * Y)	-0.00016	-0.00014	-0.00011

TINVX12H7H



tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

3-State Inverter with High Enable

Truth Table

INPUT		OUTPUT
A	OE	Y
-	0	HiZ
0	1	1
1	1	0

Footprint

Cell Name	Area
TINVX12H7H	13.72000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	OE	Y
TINVX12H7H	0.00724	0.00894	0.33881

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
TINVX12H7H	0.00000	0.36773	0.39238

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TINVX12H7H	A->Y (FR)	0.08406	0.25530	0.66449
	OE->Y (FR)	0.07204	0.13865	0.28006
	OE->Y (RR)	0.03851	0.20193	0.59626

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TINVX12H7H	A->Y (RF)	0.09264	0.22294	0.51414
	OE->Y (FF)	0.02757	0.07769	0.17299
	OE->Y (RF)	0.07506	0.22228	0.55723

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
TINVX12H7H	A	0.01259	0.01322	0.01378
	A	0.00080	0.00082	0.00085
	A	-0.00063	-0.00062	-0.00057
	A	0.01113	0.01175	0.01233
	OE	0.00317	0.00346	0.00375
	OE	0.00089	0.00091	0.00092
	OE	-0.00010	-0.00006	-0.00001
	OE	0.01060	0.01083	0.01111

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
TINVX12H7H	A	0.01493	0.01559	0.01619
	A	-0.00085	-0.00082	-0.00079
	A	0.00057	0.00063	0.00070
	A	0.01638	0.01704	0.01764
	OE	0.00999	0.01063	0.01192
	OE	-0.00010	0.00010	0.00020
	OE	0.00052	0.00056	0.00057
	OE	0.01366	0.01432	0.01563

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX12H7H	!OE	0.00034	0.00052	0.00074
	!OE	0.00031	0.00034	0.00035
	!OE	-0.00029	-0.00028	-0.00028
	!OE	0.00615	0.00632	0.00651

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX12H7H	!OE	0.00621	0.00637	0.00659
	!OE	-0.00035	-0.00034	-0.00031
	!OE	0.00028	0.00028	0.00029
	!OE	0.00039	0.00056	0.00077

Passive power(pJ) for OE rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX12H7H	(A * !Y)	0.00815	0.00880	0.01007
	(A * !Y)	-0.00031	-0.00031	-0.00030
	(A * !Y)	0.00085	0.00091	0.00097
	(A * !Y)	0.01107	0.01174	0.01301
	(!A * Y)	0.00032	0.00054	0.00087
	(!A * Y)	0.00133	0.00135	0.00136
	(!A * Y)	-0.00041	-0.00040	-0.00038
	(!A * Y)	0.00845	0.00868	0.00899

Passive power(pJ) for OE falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX12H7H	(A * !Y)	0.00783	0.00796	0.00808
	(A * !Y)	0.00030	0.00033	0.00038
	(A * !Y)	-0.00093	-0.00090	-0.00085
	(A * !Y)	0.00492	0.00508	0.00526
	(!A * Y)	0.00970	0.00995	0.01027
	(!A * Y)	-0.00136	-0.00135	-0.00133
	(!A * Y)	0.00039	0.00040	0.00041
	(!A * Y)	0.00152	0.00178	0.00210

TINVX16H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

3-State Inverter with High Enable

Truth Table

INPUT		OUTPUT
A	OE	Y
-	0	HiZ
0	1	1
1	1	0

Footprint

Cell Name	Area
TINVX16H7H	17.92000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	OE	Y
TINVX16H7H	0.00952	0.01246	0.45898

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
TINVX16H7H	0.00000	0.50506	0.52769

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TINVX16H7H	A->Y (FR)	0.08373	0.25515	0.66445
	OE->Y (FR)	0.06869	0.13382	0.27061
	OE->Y (RR)	0.03838	0.20225	0.59764

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TINVX16H7H	A->Y (RF)	0.09217	0.22507	0.52294
	OE->Y (FF)	0.02810	0.07821	0.17367
	OE->Y (RF)	0.07284	0.22077	0.55721

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
TINVX16H7H	A	0.01657	0.01740	0.01812
	A	0.00107	0.00110	0.00112
	A	-0.00085	-0.00084	-0.00082
	A	0.01473	0.01555	0.01629
	OE	0.00410	0.00450	0.00492
	OE	0.00121	0.00122	0.00126
	OE	-0.00017	-0.00010	0.00004
	OE	0.01442	0.01474	0.01520

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
TINVX16H7H	A	0.01967	0.02055	0.02136
	A	-0.00112	-0.00110	-0.00107
	A	0.00082	0.00084	0.00086
	A	0.02151	0.02238	0.02317
	OE	0.01293	0.01369	0.01526
	OE	0.00008	0.00015	0.00023
	OE	0.00071	0.00073	0.00075
	OE	0.01824	0.01900	0.02057

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX16H7H	!OE	0.00046	0.00069	0.00099
	!OE	0.00042	0.00046	0.00048
	!OE	-0.00039	-0.00038	-0.00038
	!OE	0.00812	0.00834	0.00865

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX16H7H	!OE	0.00817	0.00838	0.00869
	!OE	-0.00047	-0.00045	-0.00042
	!OE	0.00038	0.00038	0.00039
	!OE	0.00051	0.00073	0.00101

Passive power(pJ) for OE rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX16H7H	(A * !Y)	0.01056	0.01130	0.01287
	(A * !Y)	-0.00040	-0.00038	-0.00030
	(A * !Y)	0.00115	0.00119	0.00125
	(A * !Y)	0.01487	0.01561	0.01718
	(!A * Y)	0.00037	0.00068	0.00113
	(!A * Y)	0.00179	0.00183	0.00187
	(!A * Y)	-0.00055	-0.00052	-0.00047
	(!A * Y)	0.01161	0.01194	0.01234

Passive power(pJ) for OE falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX16H7H	(A * !Y)	0.01074	0.01094	0.01127
	(A * !Y)	0.00030	0.00040	0.00047
	(A * !Y)	-0.00121	-0.00118	-0.00115
	(A * !Y)	0.00644	0.00667	0.00693
	(!A * Y)	0.01322	0.01356	0.01403
	(!A * Y)	-0.00185	-0.00182	-0.00179
	(!A * Y)	0.00047	0.00054	0.00057
	(!A * Y)	0.00192	0.00227	0.00277

TINVX1H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

3-State Inverter with High Enable

Truth Table

INPUT		OUTPUT
A	OE	Y
-	0	HiZ
0	1	1
1	1	0

Footprint

Cell Name	Area
TINVX1H7H	1.68000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	OE	Y
TINVX1H7H	0.00084	0.00154	0.02133

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
TINVX1H7H	0.00000	0.00911	0.01428

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TINVX1H7H	A->Y (FR)	0.04249	0.22319	0.75077
	OE->Y (FR)	0.02725	0.08379	0.23019
	OE->Y (RR)	0.04306	0.20044	0.58147

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TINVX1H7H	A->Y (RF)	0.02944	0.16850	0.59526
	OE->Y (FF)	0.02859	0.08605	0.23019
	OE->Y (RF)	0.01970	0.15177	0.59177

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
TINVX1H7H	A	0.00091	0.00093	0.00095
	A	-0.00010	-0.00009	-0.00009
	A	0.00008	0.00008	0.00008
	A	-0.00001	0.00001	0.00002
	OE	0.00036	0.00039	0.00042
	OE	-0.00001	-0.00001	-0.00001
	OE	0.00007	0.00007	0.00007
	OE	0.00102	0.00104	0.00107

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
TINVX1H7H	A	-0.00011	-0.00009	-0.00008
	A	0.00009	0.00009	0.00010
	A	-0.00008	-0.00008	-0.00008
	A	0.00080	0.00084	0.00088
	OE	-0.00013	-0.00011	-0.00008
	OE	0.00014	0.00014	0.00014
	OE	-0.00007	-0.00005	-0.00001
	OE	0.00115	0.00120	0.00123

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX1H7H	!OE	-0.00018	-0.00017	-0.00016
	!OE	-0.00003	-0.00003	-0.00003
	!OE	0.00002	0.00002	0.00002
	!OE	0.00021	0.00021	0.00022

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX1H7H	!OE	0.00018	0.00018	0.00018
	!OE	0.00003	0.00003	0.00003
	!OE	-0.00002	-0.00002	-0.00002
	!OE	-0.00021	-0.00020	-0.00019

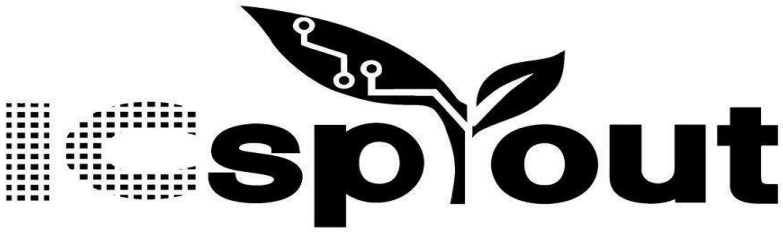
Passive power(pJ) for OE rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX1H7H	(A * !Y)	-0.00014	-0.00012	-0.00009
	(A * !Y)	0.00006	0.00006	0.00006
	(A * !Y)	-0.00002	-0.00002	-0.00002
	(A * !Y)	0.00094	0.00096	0.00099
	(!A * Y)	-0.00009	-0.00006	-0.00003
	(!A * Y)	0.00002	0.00003	0.00004
	(!A * Y)	0.00001	0.00001	0.00001
	(!A * Y)	0.00083	0.00086	0.00088

Passive power(pJ) for OE falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX1H7H	(A * !Y)	0.00076	0.00078	0.00081
	(A * !Y)	-0.00006	-0.00006	-0.00006
	(A * !Y)	0.00002	0.00002	0.00002
	(A * !Y)	-0.00032	-0.00029	-0.00026
	(!A * Y)	0.00078	0.00081	0.00085
	(!A * Y)	-0.00004	-0.00003	-0.00002
	(!A * Y)	-0.00001	-0.00001	-0.00000
	(!A * Y)	-0.00016	-0.00014	-0.00010

TINVX1P4H7H



tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

3-State Inverter with High Enable

Truth Table

INPUT		OUTPUT
A	OE	Y
-	0	HiZ
0	1	1
1	1	0

Footprint

Cell Name	Area
TINVX1P4H7H	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	OE	Y
TINVX1P4H7H	0.00093	0.00158	0.02412

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
TINVX1P4H7H	0.00000	0.01028	0.01825

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TINVX1P4H7H	A->Y (FR)	0.04258	0.22367	0.75188
	OE->Y (FR)	0.02908	0.08636	0.23021
	OE->Y (RR)	0.04767	0.20692	0.59236

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TINVX1P4H7H	A->Y (RF)	0.02954	0.16981	0.60050
	OE->Y (FF)	0.03052	0.08885	0.23022
	OE->Y (RF)	0.01841	0.15000	0.59202

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
TINVX1P4H7H	A	0.00108	0.00111	0.00112
	A	-0.00011	-0.00011	-0.00011
	A	0.00009	0.00009	0.00009
	A	0.00008	0.00010	0.00011
	OE	0.00053	0.00056	0.00059
	OE	-0.00002	-0.00002	-0.00002
	OE	0.00008	0.00008	0.00008
	OE	0.00118	0.00121	0.00124

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
TINVX1P4H7H	A	-0.00013	-0.00011	-0.00009
	A	0.00011	0.00011	0.00011
	A	-0.00009	-0.00009	-0.00009
	A	0.00087	0.00091	0.00096
	OE	-0.00013	-0.00011	-0.00008
	OE	0.00015	0.00015	0.00016
	OE	-0.00008	-0.00006	-0.00004
	OE	0.00120	0.00125	0.00131

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX1P4H7H	!OE	-0.00020	-0.00019	-0.00017
	!OE	-0.00003	-0.00003	-0.00003
	!OE	0.00002	0.00002	0.00002
	!OE	0.00023	0.00023	0.00023

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX1P4H7H	!OE	0.00019	0.00020	0.00020
	!OE	0.00003	0.00003	0.00003
	!OE	-0.00002	-0.00002	-0.00002
	!OE	-0.00023	-0.00022	-0.00021

Passive power(pJ) for OE rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX1P4H7H	(A * !Y)	-0.00014	-0.00012	-0.00009
	(A * !Y)	0.00007	0.00007	0.00007
	(A * !Y)	-0.00002	-0.00002	-0.00002
	(A * !Y)	0.00099	0.00102	0.00105
	(!A * Y)	-0.00006	-0.00003	-0.00000
	(!A * Y)	0.00003	0.00004	0.00005
	(!A * Y)	0.00001	0.00001	0.00002
	(!A * Y)	0.00089	0.00092	0.00095

Passive power(pJ) for OE falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX1P4H7H	(A * !Y)	0.00081	0.00083	0.00086
	(A * !Y)	-0.00007	-0.00007	-0.00007
	(A * !Y)	0.00002	0.00002	0.00003
	(A * !Y)	-0.00033	-0.00030	-0.00026
	(!A * Y)	0.00080	0.00083	0.00088
	(!A * Y)	-0.00005	-0.00004	-0.00003
	(!A * Y)	-0.00001	-0.00001	-0.00001
	(!A * Y)	-0.00016	-0.00014	-0.00011

TINVX2H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

3-State Inverter with High Enable

Truth Table

INPUT		OUTPUT
A	OE	Y
-	0	HiZ
0	1	1
1	1	0

Footprint

Cell Name	Area
TINVX2H7H	1.68000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	OE	Y
TINVX2H7H	0.00101	0.00177	0.02797

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
TINVX2H7H	0.00000	0.01235	0.02528

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TINVX2H7H	A->Y (FR)	0.04004	0.22231	0.75472
	OE->Y (FR)	0.02932	0.08659	0.23020
	OE->Y (RR)	0.04347	0.20409	0.59286

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TINVX2H7H	A->Y (RF)	0.02725	0.16627	0.59532
	OE->Y (FF)	0.03104	0.08964	0.23021
	OE->Y (RF)	0.01759	0.14756	0.58780

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
TINVX2H7H	A	0.00120	0.00122	0.00124
	A	-0.00013	-0.00013	-0.00013
	A	0.00011	0.00011	0.00011
	A	0.00002	0.00005	0.00006
	OE	0.00054	0.00056	0.00060
	OE	-0.00002	-0.00002	-0.00002
	OE	0.00010	0.00011	0.00011
	OE	0.00121	0.00124	0.00127

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
TINVX2H7H	A	-0.00015	-0.00013	-0.00011
	A	0.00013	0.00013	0.00013
	A	-0.00011	-0.00011	-0.00011
	A	0.00098	0.00105	0.00107
	OE	-0.00013	-0.00010	-0.00007
	OE	0.00018	0.00018	0.00021
	OE	-0.00011	-0.00006	-0.00002
	OE	0.00140	0.00144	0.00151

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX2H7H	!OE	-0.00023	-0.00021	-0.00020
	!OE	-0.00004	-0.00004	-0.00003
	!OE	0.00002	0.00002	0.00002
	!OE	0.00025	0.00025	0.00025

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX2H7H	!OE	0.00023	0.00023	0.00023
	!OE	0.00003	0.00004	0.00004
	!OE	-0.00002	-0.00002	-0.00002
	!OE	-0.00025	-0.00023	-0.00022

Passive power(pJ) for OE rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX2H7H	(A * !Y)	-0.00014	-0.00012	-0.00008
	(A * !Y)	0.00008	0.00008	0.00008
	(A * !Y)	-0.00002	-0.00002	-0.00002
	(A * !Y)	0.00111	0.00114	0.00116
	(!A * Y)	-0.00006	-0.00003	0.00001
	(!A * Y)	0.00002	0.00004	0.00005
	(!A * Y)	0.00002	0.00002	0.00002
	(!A * Y)	0.00099	0.00102	0.00105

Passive power(pJ) for OE falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX2H7H	(A * !Y)	0.00082	0.00084	0.00087
	(A * !Y)	-0.00008	-0.00008	-0.00008
	(A * !Y)	0.00002	0.00002	0.00002
	(A * !Y)	-0.00044	-0.00041	-0.00037
	(!A * Y)	0.00082	0.00086	0.00090
	(!A * Y)	-0.00005	-0.00004	-0.00002
	(!A * Y)	-0.00002	-0.00002	-0.00001
	(!A * Y)	-0.00024	-0.00022	-0.00019

TINVX3H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

3-State Inverter with High Enable

Truth Table

INPUT		OUTPUT
A	OE	Y
-	0	HiZ
0	1	1
1	1	0

Footprint

Cell Name	Area
TINVX3H7H	6.16000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	OE	Y
TINVX3H7H	0.00240	0.00294	0.08651

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
TINVX3H7H	0.00000	0.07400	0.07987

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TINVX3H7H	A->Y (FR)	0.09757	0.26848	0.67898
	OE->Y (FR)	0.06609	0.12832	0.25658
	OE->Y (RR)	0.04134	0.20400	0.59639

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TINVX3H7H	A->Y (RF)	0.10285	0.22512	0.49772
	OE->Y (FF)	0.02762	0.07758	0.17227
	OE->Y (RF)	0.07842	0.21440	0.52174

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
TINVX3H7H	A	0.00385	0.00403	0.00421
	A	0.00021	0.00021	0.00022
	A	-0.00016	-0.00016	-0.00013
	A	0.00310	0.00328	0.00346
	OE	0.00089	0.00097	0.00107
	OE	0.00024	0.00025	0.00026
	OE	-0.00005	-0.00003	0.00000
	OE	0.00328	0.00336	0.00346

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
TINVX3H7H	A	0.00453	0.00472	0.00490
	A	-0.00022	-0.00021	-0.00021
	A	0.00016	0.00016	0.00017
	A	0.00528	0.00547	0.00564
	OE	0.00310	0.00322	0.00350
	OE	0.00002	0.00003	0.00004
	OE	0.00012	0.00013	0.00014
	OE	0.00449	0.00460	0.00490

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX3H7H	!OE	0.00005	0.00011	0.00019
	!OE	0.00008	0.00009	0.00009
	!OE	-0.00007	-0.00007	-0.00007
	!OE	0.00196	0.00201	0.00209

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX3H7H	!OE	0.00196	0.00202	0.00209
	!OE	-0.00009	-0.00009	-0.00008
	!OE	0.00007	0.00007	0.00008
	!OE	0.00005	0.00011	0.00018

Passive power(pJ) for OE rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX3H7H	(A * !Y)	0.00254	0.00265	0.00294
	(A * !Y)	-0.00007	-0.00006	-0.00004
	(A * !Y)	0.00021	0.00023	0.00026
	(A * !Y)	0.00370	0.00384	0.00413
	(!A * Y)	-0.00002	0.00005	0.00012
	(!A * Y)	0.00034	0.00036	0.00038
	(!A * Y)	-0.00012	-0.00011	-0.00011
	(!A * Y)	0.00254	0.00262	0.00271

Passive power(pJ) for OE falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX3H7H	(A * !Y)	0.00256	0.00262	0.00270
	(A * !Y)	0.00004	0.00006	0.00007
	(A * !Y)	-0.00024	-0.00022	-0.00021
	(A * !Y)	0.00136	0.00142	0.00150
	(!A * Y)	0.00314	0.00322	0.00332
	(!A * Y)	-0.00036	-0.00035	-0.00034
	(!A * Y)	0.00011	0.00012	0.00012
	(!A * Y)	0.00057	0.00065	0.00075

TINVX4H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

3-State Inverter with High Enable

Truth Table

INPUT		OUTPUT
A	OE	Y
-	0	HiZ
0	1	1
1	1	0

Footprint

Cell Name	Area
TINVX4H7H	6.16000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	OE	Y
TINVX4H7H	0.00281	0.00333	0.10922

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
TINVX4H7H	0.00000	0.11498	0.13164

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TINVX4H7H	A->Y (FR)	0.09347	0.26507	0.67710
	OE->Y (FR)	0.07074	0.13546	0.27164
	OE->Y (RR)	0.04028	0.20323	0.59671

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TINVX4H7H	A->Y (RF)	0.09897	0.22325	0.50074
	OE->Y (FF)	0.02716	0.07808	0.17534
	OE->Y (RF)	0.07778	0.21726	0.53447

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
TINVX4H7H	A	0.00466	0.00487	0.00509
	A	0.00028	0.00028	0.00029
	A	-0.00021	-0.00021	-0.00021
	A	0.00386	0.00408	0.00430
	OE	0.00115	0.00124	0.00136
	OE	0.00030	0.00031	0.00031
	OE	-0.00004	-0.00003	-0.00002
	OE	0.00388	0.00397	0.00409

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
TINVX4H7H	A	0.00543	0.00566	0.00588
	A	-0.00028	-0.00028	-0.00028
	A	0.00021	0.00021	0.00022
	A	0.00622	0.00645	0.00667
	OE	0.00374	0.00390	0.00427
	OE	0.00002	0.00003	0.00004
	OE	0.00017	0.00018	0.00019
	OE	0.00522	0.00539	0.00582

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX4H7H	!OE	0.00010	0.00016	0.00024
	!OE	0.00011	0.00012	0.00012
	!OE	-0.00010	-0.00009	-0.00009
	!OE	0.00234	0.00241	0.00248

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX4H7H	!OE	0.00234	0.00241	0.00250
	!OE	-0.00012	-0.00012	-0.00011
	!OE	0.00010	0.00010	0.00010
	!OE	0.00009	0.00016	0.00026

Passive power(pJ) for OE rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX4H7H	(A * !Y)	0.00308	0.00324	0.00360
	(A * !Y)	-0.00010	-0.00010	-0.00009
	(A * !Y)	0.00029	0.00030	0.00033
	(A * !Y)	0.00428	0.00447	0.00484
	(!A * Y)	0.00005	0.00014	0.00026
	(!A * Y)	0.00042	0.00045	0.00046
	(!A * Y)	-0.00014	-0.00014	-0.00014
	(!A * Y)	0.00304	0.00311	0.00320

Passive power(pJ) for OE falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX4H7H	(A * !Y)	0.00290	0.00297	0.00304
	(A * !Y)	0.00009	0.00010	0.00012
	(A * !Y)	-0.00031	-0.00030	-0.00029
	(A * !Y)	0.00167	0.00174	0.00182
	(!A * Y)	0.00362	0.00371	0.00384
	(!A * Y)	-0.00046	-0.00045	-0.00042
	(!A * Y)	0.00014	0.00014	0.00015
	(!A * Y)	0.00063	0.00072	0.00084

TINVX6H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

3-State Inverter with High Enable

Truth Table

INPUT		OUTPUT
A	OE	Y
-	0	HiZ
0	1	1
1	1	0

Footprint

Cell Name	Area
TINVX6H7H	7.84000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	OE	Y
TINVX6H7H	0.00399	0.00475	0.16385

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
TINVX6H7H	0.00000	0.18107	0.19455

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TINVX6H7H	A->Y (FR)	0.08844	0.26003	0.67116
	OE->Y (FR)	0.07691	0.14502	0.29169
	OE->Y (RR)	0.03892	0.20181	0.59526

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TINVX6H7H	A->Y (RF)	0.09560	0.22263	0.50652
	OE->Y (FF)	0.02736	0.07812	0.17505
	OE->Y (RF)	0.07932	0.22480	0.55780

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
TINVX6H7H	A	0.00662	0.00694	0.00725
	A	0.00042	0.00042	0.00043
	A	-0.00032	-0.00032	-0.00030
	A	0.00568	0.00600	0.00632
	OE	0.00161	0.00174	0.00190
	OE	0.00044	0.00046	0.00046
	OE	-0.00008	-0.00004	-0.00003
	OE	0.00551	0.00563	0.00582

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
TINVX6H7H	A	0.00776	0.00810	0.00842
	A	-0.00043	-0.00042	-0.00039
	A	0.00030	0.00032	0.00033
	A	0.00871	0.00903	0.00936
	OE	0.00542	0.00573	0.00640
	OE	0.00003	0.00004	0.00007
	OE	0.00027	0.00029	0.00032
	OE	0.00738	0.00772	0.00849

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX6H7H	!OE	0.00017	0.00026	0.00041
	!OE	0.00017	0.00017	0.00019
	!OE	-0.00015	-0.00014	-0.00014
	!OE	0.00333	0.00343	0.00357

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX6H7H	!OE	0.00336	0.00346	0.00359
	!OE	-0.00017	-0.00017	-0.00017
	!OE	0.00014	0.00015	0.00015
	!OE	0.00019	0.00028	0.00042

Passive power(pJ) for OE rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX6H7H	(A * !Y)	0.00450	0.00481	0.00548
	(A * !Y)	-0.00016	-0.00016	-0.00015
	(A * !Y)	0.00042	0.00046	0.00049
	(A * !Y)	0.00614	0.00643	0.00709
	(!A * Y)	0.00013	0.00026	0.00045
	(!A * Y)	0.00065	0.00067	0.00068
	(!A * Y)	-0.00020	-0.00020	-0.00019
	(!A * Y)	0.00441	0.00453	0.00470

Passive power(pJ) for OE falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX6H7H	(A * !Y)	0.00411	0.00419	0.00429
	(A * !Y)	0.00015	0.00017	0.00018
	(A * !Y)	-0.00047	-0.00046	-0.00042
	(A * !Y)	0.00250	0.00260	0.00270
	(!A * Y)	0.00509	0.00521	0.00539
	(!A * Y)	-0.00068	-0.00067	-0.00065
	(!A * Y)	0.00020	0.00021	0.00023
	(!A * Y)	0.00080	0.00093	0.00109

TINVX8H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

3-State Inverter with High Enable

Truth Table

INPUT		OUTPUT
A	OE	Y
-	0	HiZ
0	1	1
1	1	0

Footprint

Cell Name	Area
TINVX8H7H	10.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	OE	Y
TINVX8H7H	0.00540	0.00653	0.22924

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
TINVX8H7H	0.00000	0.23217	0.26664

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TINVX8H7H	A->Y (FR)	0.08518	0.25674	0.66734
	OE->Y (FR)	0.06600	0.12903	0.25953
	OE->Y (RR)	0.03771	0.20101	0.59542

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TINVX8H7H	A->Y (RF)	0.09165	0.22207	0.51494
	OE->Y (FF)	0.02697	0.07698	0.17197
	OE->Y (RF)	0.07197	0.21691	0.54683

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
TINVX8H7H	A	0.00859	0.00901	0.00940
	A	0.00054	0.00055	0.00056
	A	-0.00042	-0.00042	-0.00040
	A	0.00721	0.00762	0.00803
	OE	0.00197	0.00218	0.00241
	OE	0.00060	0.00062	0.00063
	OE	-0.00014	-0.00006	-0.00002
	OE	0.00738	0.00755	0.00783

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
TINVX8H7H	A	0.00989	0.01033	0.01074
	A	-0.00056	-0.00055	-0.00045
	A	0.00040	0.00042	0.00045
	A	0.01127	0.01170	0.01211
	OE	0.00653	0.00682	0.00752
	OE	0.00006	0.00008	0.00010
	OE	0.00031	0.00036	0.00036
	OE	0.00940	0.00970	0.01049

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX8H7H	!OE	0.00019	0.00031	0.00045
	!OE	0.00022	0.00023	0.00025
	!OE	-0.00019	-0.00019	-0.00019
	!OE	0.00448	0.00460	0.00472

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX8H7H	!OE	0.00438	0.00450	0.00467
	!OE	-0.00024	-0.00023	-0.00022
	!OE	0.00019	0.00019	0.00020
	!OE	0.00008	0.00021	0.00037

Passive power(pJ) for OE rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX8H7H	(A * !Y)	0.00536	0.00565	0.00633
	(A * !Y)	-0.00021	-0.00019	-0.00018
	(A * !Y)	0.00055	0.00059	0.00063
	(A * !Y)	0.00770	0.00803	0.00871
	(!A * Y)	0.00012	0.00028	0.00055
	(!A * Y)	0.00084	0.00091	0.00095
	(!A * Y)	-0.00028	-0.00027	-0.00025
	(!A * Y)	0.00598	0.00613	0.00633

Passive power(pJ) for OE falling (conditional):

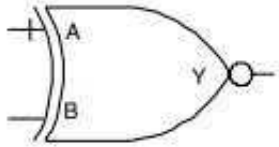
Cell Name	When	Power(pJ)		
		min	avg	max
TINVX8H7H	(A * !Y)	0.00565	0.00577	0.00590
	(A * !Y)	0.00018	0.00020	0.00025
	(A * !Y)	-0.00062	-0.00058	-0.00055
	(A * !Y)	0.00329	0.00341	0.00356
	(!A * Y)	0.00695	0.00712	0.00735
	(!A * Y)	-0.00092	-0.00090	-0.00084
	(!A * Y)	0.00025	0.00028	0.00029
	(!A * Y)	0.00106	0.00124	0.00149

XNOR2X0P5H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The XNOR2 cell provides a logical EXCLUSIVE NOR of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	0	1
0	1	0
1	0	0
1	1	1

Footprint

Cell Name	Area
XNOR2X0P5H7H	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
XNOR2X0P5H7H	0.00190	0.00099	0.03027

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
XNOR2X0P5H7H	0.00000	0.02879	0.02879

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XNOR2X0P5H7H	A->Y (RR)	B	0.06266	0.22736	0.62623
	A->Y (FR)	!B	0.11241	0.28423	0.69570
	B->Y (RR)	A	0.09297	0.27321	0.71646
	B->Y (FR)	!A	0.13531	0.31202	0.73993

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XNOR2X0P5H7H	A->Y (FF)	B	0.08861	0.22452	0.55187
	A->Y (RF)	!B	0.09879	0.23124	0.52866
	B->Y (FF)	A	0.12003	0.27359	0.64401
	B->Y (RF)	!A	0.14264	0.27890	0.58797

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
XNOR2X0P5H7H	A	B	0.00024	0.00033	0.00042
	A	B	0.00006	0.00006	0.00007
	A	B	-0.00007	-0.00007	-0.00007
	A	B	0.00174	0.00182	0.00191
	A	!B	0.00187	0.00192	0.00197
	A	!B	0.00007	0.00007	0.00007
	A	!B	-0.00001	-0.00001	0.00000
	A	!B	0.00105	0.00110	0.00116
	B	A	0.00048	0.00054	0.00060
	B	A	0.00010	0.00010	0.00010
	B	A	-0.00008	-0.00008	-0.00008
	B	A	0.00172	0.00178	0.00184
	B	!A	0.00206	0.00213	0.00221
	B	!A	0.00002	0.00003	0.00003
	B	!A	-0.00002	-0.00002	-0.00002
	B	!A	0.00154	0.00161	0.00168

Internal switching power(pJ) to Y falling (conditional):

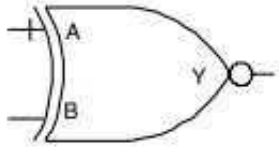
Cell Name	Input	When	Power(pJ)		
			min	avg	max
XNOR2X0P5H7H	A	B	0.00196	0.00204	0.00212
	A	B	-0.00006	-0.00006	-0.00006
	A	B	0.00009	0.00009	0.00009
	A	B	0.00045	0.00053	0.00062
	A	!B	0.00128	0.00134	0.00146
	A	!B	-0.00005	-0.00004	-0.00004
	A	!B	0.00001	0.00001	0.00001
	A	!B	0.00214	0.00219	0.00232
	B	A	0.00237	0.00243	0.00250
	B	A	-0.00010	-0.00010	-0.00010
	B	A	0.00008	0.00008	0.00008
	B	A	0.00113	0.00119	0.00125
	B	!A	0.00145	0.00152	0.00159
	B	!A	-0.00003	-0.00003	-0.00002
	B	!A	0.00002	0.00002	0.00002
	B	!A	0.00197	0.00204	0.00211

XNOR2X0P7H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The XNOR2 cell provides a logical EXCLUSIVE NOR of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	0	1
0	1	0
1	0	0
1	1	1

Footprint

Cell Name	Area
XNOR2X0P7H7H	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
XNOR2X0P7H7H	0.00192	0.00099	0.03447

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
XNOR2X0P7H7H	0.00000	0.02966	0.02966

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XNOR2X0P7H7H	A->Y (RR)	B	0.06128	0.22735	0.62924
	A->Y (FR)	!B	0.11129	0.28390	0.69638
	B->Y (RR)	A	0.09150	0.27263	0.71744
	B->Y (FR)	!A	0.13407	0.31154	0.74028

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XNOR2X0P7H7H	A->Y (FF)	B	0.08849	0.22657	0.55818
	A->Y (RF)	!B	0.09827	0.23249	0.53210
	B->Y (FF)	A	0.11939	0.27483	0.64831
	B->Y (RF)	!A	0.14260	0.28044	0.59189

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
XNOR2X0P7H7H	A	B	0.00026	0.00035	0.00044
	A	B	0.00006	0.00006	0.00006
	A	B	-0.00007	-0.00007	-0.00006
	A	B	0.00176	0.00184	0.00193
	A	!B	0.00189	0.00194	0.00200
	A	!B	0.00006	0.00006	0.00006
	A	!B	-0.00001	-0.00001	-0.00001
	A	!B	0.00106	0.00111	0.00117
	B	A	0.00050	0.00056	0.00063
	B	A	0.00010	0.00010	0.00010
	B	A	-0.00008	-0.00008	-0.00008
	B	A	0.00173	0.00179	0.00186
	B	!A	0.00208	0.00215	0.00223
	B	!A	0.00002	0.00002	0.00002
	B	!A	-0.00001	-0.00001	-0.00001
	B	!A	0.00155	0.00162	0.00170

Internal switching power(pJ) to Y falling (conditional):

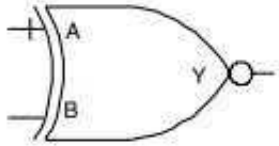
Cell Name	Input	When	Power(pJ)		
			min	avg	max
XNOR2X0P7H7H	A	B	0.00199	0.00207	0.00216
	A	B	-0.00006	-0.00006	-0.00006
	A	B	0.00008	0.00008	0.00008
	A	B	0.00048	0.00056	0.00064
	A	!B	0.00130	0.00136	0.00148
	A	!B	-0.00004	-0.00004	-0.00003
	A	!B	0.00001	0.00001	0.00001
	A	!B	0.00217	0.00223	0.00235
	B	A	0.00239	0.00245	0.00252
	B	A	-0.00010	-0.00010	-0.00010
	B	A	0.00008	0.00008	0.00008
	B	A	0.00116	0.00121	0.00128
	B	!A	0.00147	0.00154	0.00162
	B	!A	-0.00002	-0.00002	-0.00002
	B	!A	0.00001	0.00001	0.00001
	B	!A	0.00199	0.00207	0.00214

XNOR2X1H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The XNOR2 cell provides a logical EXCLUSIVE NOR of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	0	1
0	1	0
1	0	0
1	1	1

Footprint

Cell Name	Area
XNOR2X1H7H	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
XNOR2X1H7H	0.00193	0.00099	0.04122

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
XNOR2X1H7H	0.00000	0.03172	0.03217

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XNOR2X1H7H	A->Y (RR)	B	0.06012	0.22801	0.63345
	A->Y (FR)	!B	0.11055	0.28430	0.69830
	B->Y (RR)	A	0.09029	0.27262	0.71943
	B->Y (FR)	!A	0.13331	0.31179	0.74184

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XNOR2X1H7H	A->Y (FF)	B	0.08933	0.23227	0.57506
	A->Y (RF)	!B	0.09862	0.23715	0.54558
	B->Y (FF)	A	0.11981	0.27954	0.66253
	B->Y (RF)	!A	0.14361	0.28564	0.60554

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
XNOR2X1H7H	A	B	0.00031	0.00040	0.00049
	A	B	0.00005	0.00005	0.00006
	A	B	-0.00007	-0.00006	-0.00006
	A	B	0.00180	0.00189	0.00198
	A	!B	0.00195	0.00200	0.00206
	A	!B	0.00006	0.00006	0.00006
	A	!B	-0.00000	-0.00000	-0.00000
	A	!B	0.00110	0.00115	0.00121
	B	A	0.00055	0.00061	0.00068
	B	A	0.00009	0.00009	0.00010
	B	A	-0.00008	-0.00007	-0.00007
	B	A	0.00177	0.00183	0.00190
	B	!A	0.00213	0.00221	0.00229
	B	!A	0.00002	0.00002	0.00002
	B	!A	-0.00002	-0.00001	-0.00001
	B	!A	0.00159	0.00166	0.00174

Internal switching power(pJ) to Y falling (conditional):

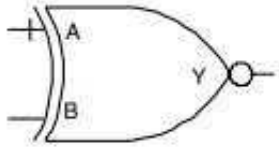
Cell Name	Input	When	Power(pJ)		
			min	avg	max
XNOR2X1H7H	A	B	0.00203	0.00211	0.00221
	A	B	-0.00005	-0.00005	-0.00005
	A	B	0.00008	0.00008	0.00008
	A	B	0.00052	0.00060	0.00070
	A	!B	0.00132	0.00139	0.00151
	A	!B	-0.00003	-0.00003	-0.00003
	A	!B	0.00000	0.00000	0.00001
	A	!B	0.00221	0.00228	0.00240
	B	A	0.00242	0.00248	0.00256
	B	A	-0.00010	-0.00009	-0.00009
	B	A	0.00007	0.00007	0.00008
	B	A	0.00119	0.00126	0.00133
	B	!A	0.00150	0.00158	0.00166
	B	!A	-0.00002	-0.00002	-0.00002
	B	!A	0.00001	0.00001	0.00002
	B	!A	0.00204	0.00212	0.00220

XNOR2X1P4H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The XNOR2 cell provides a logical EXCLUSIVE NOR of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	0	1
0	1	0
1	0	0
1	1	1

Footprint

Cell Name	Area
XNOR2X1P4H7H	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
XNOR2X1P4H7H	0.00195	0.00100	0.04701

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
XNOR2X1P4H7H	0.00000	0.03450	0.03759

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XNOR2X1P4H7H	A->Y (RR)	B	0.06057	0.23050	0.64024
	A->Y (FR)	!B	0.11072	0.28545	0.70037
	B->Y (RR)	A	0.09095	0.27463	0.72418
	B->Y (FR)	!A	0.13412	0.31369	0.74526

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XNOR2X1P4H7H	A->Y (FF)	B	0.09140	0.23739	0.58669
	A->Y (RF)	!B	0.09942	0.24024	0.55203
	B->Y (FF)	A	0.12156	0.28393	0.67199
	B->Y (RF)	!A	0.14548	0.28979	0.61338

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
XNOR2X1P4H7H	A	B	0.00035	0.00044	0.00054
	A	B	0.00005	0.00005	0.00006
	A	B	-0.00006	-0.00006	-0.00004
	A	B	0.00184	0.00194	0.00204
	A	!B	0.00199	0.00205	0.00211
	A	!B	0.00004	0.00005	0.00010
	A	!B	-0.00000	0.00000	0.00003
	A	!B	0.00111	0.00118	0.00124
	B	A	0.00059	0.00065	0.00073
	B	A	0.00008	0.00009	0.00009
	B	A	-0.00007	-0.00007	-0.00007
	B	A	0.00181	0.00188	0.00196
	B	!A	0.00218	0.00226	0.00235
	B	!A	0.00000	0.00001	0.00003
	B	!A	-0.00001	-0.00000	0.00000
	B	!A	0.00162	0.00170	0.00179

Internal switching power(pJ) to Y falling (conditional):

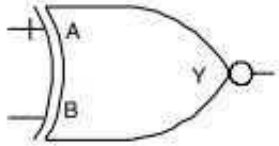
Cell Name	Input	When	Power(pJ)		
			min	avg	max
XNOR2X1P4H7H	A	B	0.00209	0.00218	0.00228
	A	B	-0.00005	-0.00005	-0.00005
	A	B	0.00007	0.00007	0.00008
	A	B	0.00057	0.00067	0.00077
	A	!B	0.00137	0.00144	0.00156
	A	!B	-0.00003	-0.00002	-0.00002
	A	!B	-0.00000	0.00000	0.00000
	A	!B	0.00228	0.00234	0.00246
	B	A	0.00249	0.00255	0.00263
	B	A	-0.00009	-0.00009	-0.00008
	B	A	0.00007	0.00007	0.00007
	B	A	0.00126	0.00132	0.00140
	B	!A	0.00155	0.00163	0.00172
	B	!A	-0.00003	-0.00001	0.00000
	B	!A	0.00000	0.00001	0.00001
	B	!A	0.00210	0.00219	0.00227

XNOR2X2H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The XNOR2 cell provides a logical EXCLUSIVE NOR of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	0	1
0	1	0
1	0	0
1	1	1

Footprint

Cell Name	Area
XNOR2X2H7H	3.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
XNOR2X2H7H	0.00195	0.00100	0.06056

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
XNOR2X2H7H	0.00000	0.03464	0.03563

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XNOR2X2H7H	A->Y (RR)	B	0.07169	0.24910	0.67497
	A->Y (FR)	!B	0.12098	0.29830	0.71491
	B->Y (RR)	A	0.10104	0.28857	0.74587
	B->Y (FR)	!A	0.14547	0.32753	0.76107

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XNOR2X2H7H	A->Y (FF)	B	0.10754	0.25689	0.61193
	A->Y (RF)	!B	0.11062	0.25139	0.55615
	B->Y (FF)	A	0.13411	0.29710	0.68331
	B->Y (RF)	!A	0.16091	0.30476	0.62033

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
XNOR2X2H7H	A	B	0.00064	0.00076	0.00089
	A	B	0.00004	0.00004	0.00005
	A	B	-0.00005	-0.00005	-0.00004
	A	B	0.00212	0.00224	0.00237
	A	!B	0.00226	0.00234	0.00241
	A	!B	0.00004	0.00005	0.00005
	A	!B	0.00001	0.00001	0.00002
	A	!B	0.00139	0.00146	0.00154
	B	A	0.00087	0.00096	0.00106
	B	A	0.00008	0.00008	0.00008
	B	A	-0.00007	-0.00006	-0.00006
	B	A	0.00209	0.00217	0.00228
	B	!A	0.00247	0.00257	0.00268
	B	!A	0.00000	0.00001	0.00001
	B	!A	0.00000	0.00000	0.00000
	B	!A	0.00189	0.00200	0.00211

Internal switching power(pJ) to Y falling (conditional):

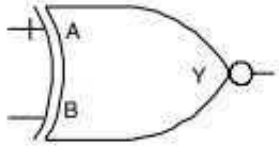
Cell Name	Input	When	Power(pJ)		
			min	avg	max
XNOR2X2H7H	A	B	0.00244	0.00255	0.00268
	A	B	-0.00004	-0.00004	-0.00003
	A	B	0.00005	0.00007	0.00011
	A	B	0.00094	0.00105	0.00118
	A	!B	0.00170	0.00179	0.00194
	A	!B	-0.00003	-0.00002	-0.00002
	A	!B	-0.00001	-0.00001	0.00002
	A	!B	0.00259	0.00270	0.00287
	B	A	0.00284	0.00292	0.00303
	B	A	-0.00008	-0.00008	-0.00008
	B	A	0.00006	0.00006	0.00007
	B	A	0.00161	0.00170	0.00180
	B	!A	0.00190	0.00201	0.00211
	B	!A	-0.00001	-0.00001	-0.00000
	B	!A	0.00000	0.00000	0.00000
	B	!A	0.00247	0.00257	0.00268

XNOR2X3H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The XNOR2 cell provides a logical EXCLUSIVE NOR of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	0	1
0	1	0
1	0	0
1	1	1

Footprint

Cell Name	Area
XNOR2X3H7H	3.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
XNOR2X3H7H	0.00202	0.00107	0.08614

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
XNOR2X3H7H	0.00000	0.04744	0.05069

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XNOR2X3H7H	A->Y (RR)	B	0.07063	0.25140	0.68482
	A->Y (FR)	!B	0.11174	0.28895	0.70545
	B->Y (RR)	A	0.09348	0.28127	0.73609
	B->Y (FR)	!A	0.12885	0.30903	0.73628

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XNOR2X3H7H	A->Y (FF)	B	0.09611	0.24824	0.60702
	A->Y (RF)	!B	0.10753	0.25376	0.56813
	B->Y (FF)	A	0.12412	0.28969	0.67622
	B->Y (RF)	!A	0.14282	0.28813	0.60681

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
XNOR2X3H7H	A	B	0.00083	0.00096	0.00111
	A	B	0.00003	0.00003	0.00003
	A	B	-0.00006	-0.00005	-0.00001
	A	B	0.00234	0.00248	0.00264
	A	!B	0.00253	0.00262	0.00272
	A	!B	0.00004	0.00005	0.00005
	A	!B	0.00002	0.00002	0.00002
	A	!B	0.00160	0.00170	0.00179
	B	A	0.00109	0.00120	0.00132
	B	A	0.00007	0.00008	0.00008
	B	A	-0.00006	-0.00006	-0.00005
	B	A	0.00236	0.00246	0.00258
	B	!A	0.00278	0.00291	0.00303
	B	!A	0.00000	0.00000	0.00002
	B	!A	0.00000	0.00000	0.00004
	B	!A	0.00216	0.00228	0.00241

Internal switching power(pJ) to Y falling (conditional):

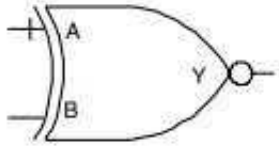
Cell Name	Input	When	Power(pJ)		
			min	avg	max
XNOR2X3H7H	A	B	0.00268	0.00280	0.00294
	A	B	-0.00003	-0.00003	-0.00003
	A	B	0.00001	0.00007	0.00007
	A	B	0.00112	0.00125	0.00140
	A	!B	0.00189	0.00200	0.00215
	A	!B	-0.00002	-0.00001	-0.00000
	A	!B	-0.00002	-0.00002	-0.00002
	A	!B	0.00287	0.00297	0.00312
	B	A	0.00308	0.00318	0.00330
	B	A	-0.00008	-0.00008	-0.00007
	B	A	0.00005	0.00006	0.00006
	B	A	0.00181	0.00190	0.00202
	B	!A	0.00214	0.00227	0.00239
	B	!A	-0.00001	-0.00000	0.00000
	B	!A	-0.00001	-0.00000	-0.00000
	B	!A	0.00275	0.00288	0.00300

XNOR2X4H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The XNOR2 cell provides a logical EXCLUSIVE NOR of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	0	1
0	1	0
1	0	0
1	1	1

Footprint

Cell Name	Area
XNOR2X4H7H	3.64000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
XNOR2X4H7H	0.00206	0.00118	0.10849

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
XNOR2X4H7H	0.00000	0.05677	0.06039

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XNOR2X4H7H	A->Y (RR)	B	0.07800	0.26370	0.70899
	A->Y (FR)	!B	0.11161	0.28875	0.70454
	B->Y (RR)	A	0.09717	0.28577	0.74042
	B->Y (FR)	!A	0.12612	0.30536	0.72883

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XNOR2X4H7H	A->Y (FF)	B	0.09464	0.24278	0.58976
	A->Y (RF)	!B	0.11236	0.25611	0.55810
	B->Y (FF)	A	0.12588	0.28708	0.65757
	B->Y (RF)	!A	0.13884	0.27788	0.57890

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
XNOR2X4H7H	A	B	0.00115	0.00131	0.00150
	A	B	0.00001	0.00001	0.00002
	A	B	-0.00004	-0.00004	-0.00003
	A	B	0.00267	0.00284	0.00303
	A	!B	0.00293	0.00304	0.00317
	A	!B	0.00004	0.00004	0.00005
	A	!B	0.00004	0.00004	0.00004
	A	!B	0.00198	0.00210	0.00221
	B	A	0.00144	0.00157	0.00172
	B	A	0.00007	0.00007	0.00008
	B	A	-0.00005	-0.00005	-0.00005
	B	A	0.00277	0.00290	0.00305
	B	!A	0.00329	0.00345	0.00361
	B	!A	-0.00000	-0.00000	0.00000
	B	!A	0.00000	0.00001	0.00001
	B	!A	0.00259	0.00276	0.00292

Internal switching power(pJ) to Y falling (conditional):

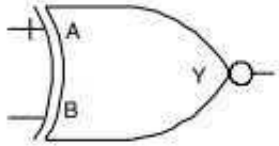
Cell Name	Input	When	Power(pJ)		
			min	avg	max
XNOR2X4H7H	A	B	0.00306	0.00322	0.00338
	A	B	-0.00001	-0.00001	0.00002
	A	B	0.00007	0.00007	0.00007
	A	B	0.00151	0.00166	0.00183
	A	!B	0.00228	0.00241	0.00258
	A	!B	-0.00001	-0.00000	0.00000
	A	!B	-0.00004	-0.00004	-0.00003
	A	!B	0.00329	0.00341	0.00359
	B	A	0.00357	0.00369	0.00383
	B	A	-0.00008	-0.00007	-0.00007
	B	A	0.00005	0.00005	0.00005
	B	A	0.00222	0.00234	0.00249
	B	!A	0.00257	0.00273	0.00288
	B	!A	0.00000	0.00000	0.00000
	B	!A	-0.00001	-0.00001	0.00000
	B	!A	0.00325	0.00341	0.00356

XNOR2X6H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The XNOR2 cell provides a logical EXCLUSIVE NOR of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	0	1
0	1	0
1	0	0
1	1	1

Footprint

Cell Name	Area
XNOR2X6H7H	4.48000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
XNOR2X6H7H	0.00210	0.00174	0.16266

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
XNOR2X6H7H	0.00000	0.07469	0.07830

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XNOR2X6H7H	A->Y (RR)	B	0.08286	0.27465	0.73248
	A->Y (FR)	!B	0.12069	0.29997	0.71292
	B->Y (RR)	A	0.09862	0.28361	0.72420
	B->Y (FR)	!A	0.13476	0.31317	0.72573

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XNOR2X6H7H	A->Y (FF)	B	0.11447	0.27461	0.64669
	A->Y (RF)	!B	0.11677	0.26619	0.57494
	B->Y (FF)	A	0.12968	0.29248	0.65975
	B->Y (RF)	!A	0.15604	0.29697	0.59196

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
XNOR2X6H7H	A	B	0.00177	0.00198	0.00222
	A	B	-0.00003	-0.00002	-0.00002
	A	B	-0.00001	-0.00000	-0.00000
	A	B	0.00326	0.00347	0.00370
	A	!B	0.00358	0.00375	0.00393
	A	!B	-0.00001	-0.00000	0.00001
	A	!B	0.00004	0.00008	0.00014
	A	!B	0.00253	0.00270	0.00287
	B	A	0.00201	0.00219	0.00242
	B	A	0.00003	0.00004	0.00004
	B	A	-0.00003	-0.00003	-0.00002
	B	A	0.00370	0.00388	0.00411
	B	!A	0.00420	0.00442	0.00464
	B	!A	-0.00006	-0.00005	-0.00005
	B	!A	0.00006	0.00006	0.00011
	B	!A	0.00301	0.00323	0.00345

Internal switching power(pJ) to Y falling (conditional):

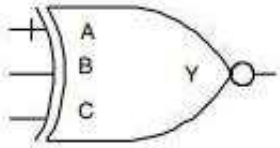
Cell Name	Input	When	Power(pJ)		
			min	avg	max
XNOR2X6H7H	A	B	0.00368	0.00388	0.00409
	A	B	0.00002	0.00002	0.00005
	A	B	0.00002	0.00003	0.00005
	A	B	0.00217	0.00236	0.00259
	A	!B	0.00290	0.00309	0.00332
	A	!B	0.00004	0.00004	0.00006
	A	!B	-0.00008	-0.00008	-0.00004
	A	!B	0.00400	0.00419	0.00453
	B	A	0.00449	0.00466	0.00487
	B	A	-0.00004	-0.00004	-0.00003
	B	A	0.00002	0.00003	0.00003
	B	A	0.00279	0.00296	0.00317
	B	!A	0.00312	0.00334	0.00355
	B	!A	0.00005	0.00005	0.00006
	B	!A	-0.00007	-0.00006	-0.00006
	B	!A	0.00430	0.00452	0.00477

XNOR3X0P5H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The XNOR3 cell provides a logical EXCLUSIVE NOR of three inputs (A, B, C). The output (Y) is represented by the following equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	0	0	1
0	0	1	0
0	1	0	0
0	1	1	1
1	0	0	0
1	0	1	1
1	1	0	1
1	1	1	0

Footprint

Cell Name	Area
XNOR3X0P5H7H	5.88000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
XNOR3X0P5H7H	0.00191	0.00100	0.00110	0.03037

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
XNOR3X0P5H7H	0.00000	0.05174	0.05748

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XNOR3X0P5H7H	A->Y (-R)	-	0.17409	0.35416	0.80197
	B->Y (-R)	-	0.21201	0.40239	0.87720
	C->Y (RR)	(A * !B) + (!A * B)	0.09784	0.27828	0.72206
	C->Y (FR)	(A * B) + (!A * !B)	0.15208	0.33227	0.76930

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XNOR3X0P5H7H	A->Y (-F)	-	0.22430	0.36784	0.70466
	B->Y (-F)	-	0.26291	0.41870	0.78998
	C->Y (FF)	(A * !B) + (!A * B)	0.12397	0.27894	0.65271
	C->Y (RF)	(A * B) + (!A * !B)	0.16381	0.30210	0.61616

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
XNOR3X0P5H7H	A	-	0.00324	0.00330	0.00345
	A	-	0.00015	0.00015	0.00015
	A	-	0.00002	0.00002	0.00004
	A	-	0.00364	0.00371	0.00377
	B	-	0.00335	0.00341	0.00349
	B	-	0.00014	0.00015	0.00015
	B	-	0.00005	0.00005	0.00005
	B	-	0.00367	0.00372	0.00378
	C	(A * B) + (!A * !B)	0.00241	0.00249	0.00257
	C	(A * B) + (!A * !B)	0.00001	0.00003	0.00003
	C	(A * B) + (!A * !B)	-0.00002	-0.00002	-0.00001
	C	(A * B) + (!A * !B)	0.00179	0.00186	0.00194
	C	(A * !B) + (!A * B)	0.00087	0.00094	0.00101
	C	(A * !B) + (!A * B)	0.00009	0.00010	0.00010
	C	(A * !B) + (!A * B)	-0.00009	-0.00008	-0.00007
	C	(A * !B) + (!A * B)	0.00186	0.00193	0.00200

Internal switching power(pJ) to Y falling (conditional):

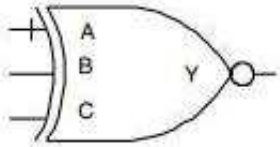
Cell Name	Input	When	Power(pJ)		
			min	avg	max
XNOR3X0P5H7H	A	-	0.00356	0.00364	0.00374
	A	-	0.00004	0.00004	0.00005
	A	-	0.00011	0.00012	0.00014
	A	-	0.00379	0.00385	0.00391
	B	-	0.00378	0.00385	0.00391
	B	-	0.00004	0.00004	0.00005
	B	-	0.00014	0.00015	0.00015
	B	-	0.00373	0.00380	0.00388
	C	(A * B) + (!A * !B)	0.00162	0.00171	0.00179
	C	(A * B) + (!A * !B)	-0.00003	-0.00003	-0.00001
	C	(A * B) + (!A * !B)	0.00001	0.00002	0.00003
	C	(A * B) + (!A * !B)	0.00225	0.00233	0.00242
	C	(A * !B) + (!A * B)	0.00208	0.00215	0.00222
	C	(A * !B) + (!A * B)	-0.00010	-0.00010	-0.00009
	C	(A * !B) + (!A * B)	0.00007	0.00008	0.00009
	C	(A * !B) + (!A * B)	0.00110	0.00116	0.00124

XNOR3X0P7H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The XNOR3 cell provides a logical EXCLUSIVE NOR of three inputs (A, B, C). The output (Y) is represented by the following equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	0	0	1
0	0	1	0
0	1	0	0
0	1	1	1
1	0	0	0
1	0	1	1
1	1	0	1
1	1	1	0

Footprint

Cell Name	Area
XNOR3X0P7H7H	5.88000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
XNOR3X0P7H7H	0.00193	0.00101	0.00109	0.03448

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
XNOR3X0P7H7H	0.00000	0.05260	0.05699

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XNOR3X0P7H7H	A->Y (-R)	-	0.17428	0.35484	0.80306
	B->Y (-R)	-	0.21225	0.40340	0.87933
	C->Y (RR)	(A * !B) + (!A * B)	0.09613	0.27701	0.72117
	C->Y (FR)	(A * B) + (!A * !B)	0.15074	0.33126	0.76798

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XNOR3X0P7H7H	A->Y (-F)	-	0.22528	0.37026	0.70889
	B->Y (-F)	-	0.26409	0.42142	0.79498
	C->Y (FF)	(A * !B) + (!A * B)	0.12309	0.27938	0.65516
	C->Y (RF)	(A * B) + (!A * !B)	0.16382	0.30336	0.61864

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
XNOR3X0P7H7H	A	-	0.00326	0.00333	0.00348
	A	-	0.00012	0.00015	0.00015
	A	-	0.00002	0.00002	0.00002
	A	-	0.00366	0.00373	0.00379
	B	-	0.00339	0.00346	0.00354
	B	-	0.00014	0.00014	0.00015
	B	-	0.00004	0.00005	0.00006
	B	-	0.00370	0.00375	0.00381
	C	(A * B) + (!A * !B)	0.00243	0.00251	0.00259
	C	(A * B) + (!A * !B)	0.00001	0.00002	0.00003
	C	(A * B) + (!A * !B)	-0.00002	-0.00001	-0.00001
	C	(A * B) + (!A * !B)	0.00180	0.00188	0.00196
	C	(A * !B) + (!A * B)	0.00090	0.00097	0.00104
	C	(A * !B) + (!A * B)	0.00010	0.00010	0.00010
	C	(A * !B) + (!A * B)	-0.00010	-0.00008	-0.00008
	C	(A * !B) + (!A * B)	0.00188	0.00194	0.00202

Internal switching power(pJ) to Y falling (conditional):

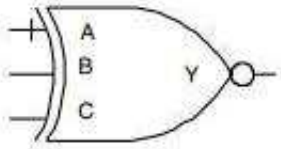
Cell Name	Input	When	Power(pJ)		
			min	avg	max
XNOR3X0P7H7H	A	-	0.00360	0.00368	0.00379
	A	-	0.00002	0.00005	0.00005
	A	-	0.00009	0.00012	0.00013
	A	-	0.00381	0.00388	0.00394
	B	-	0.00385	0.00391	0.00397
	B	-	0.00004	0.00005	0.00005
	B	-	0.00014	0.00014	0.00016
	B	-	0.00375	0.00382	0.00390
	C	(A * B) + (!A * !B)	0.00165	0.00173	0.00182
	C	(A * B) + (!A * !B)	-0.00003	-0.00002	-0.00001
	C	(A * B) + (!A * !B)	0.00001	0.00001	0.00004
	C	(A * B) + (!A * !B)	0.00227	0.00236	0.00245
	C	(A * !B) + (!A * B)	0.00209	0.00215	0.00223
	C	(A * !B) + (!A * B)	-0.00010	-0.00010	-0.00009
	C	(A * !B) + (!A * B)	0.00008	0.00008	0.00010
	C	(A * !B) + (!A * B)	0.00111	0.00118	0.00125

XNOR3X1H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The XNOR3 cell provides a logical EXCLUSIVE NOR of three inputs (A, B, C). The output (Y) is represented by the following equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	0	0	1
0	0	1	0
0	1	0	0
0	1	1	1
1	0	0	0
1	0	1	1
1	1	0	1
1	1	1	0

Footprint

Cell Name	Area
XNOR3X1H7H	5.88000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
XNOR3X1H7H	0.00193	0.00101	0.00110	0.04130

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
XNOR3X1H7H	0.00000	0.05466	0.06008

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XNOR3X1H7H	A->Y (-R)	-	0.17650	0.35866	0.80928
	B->Y (-R)	-	0.21447	0.40708	0.88510
	C->Y (RR)	(A * !B) + (!A * B)	0.09817	0.28111	0.72948
	C->Y (FR)	(A * B) + (!A * !B)	0.15080	0.33262	0.77071

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XNOR3X1H7H	A->Y (-F)	-	0.22980	0.37945	0.72748
	B->Y (-F)	-	0.26848	0.43055	0.81328
	C->Y (FF)	(A * !B) + (!A * B)	0.12754	0.28925	0.67734
	C->Y (RF)	(A * B) + (!A * !B)	0.16646	0.31048	0.63427

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
XNOR3X1H7H	A	-	0.00334	0.00342	0.00360
	A	-	0.00013	0.00014	0.00014
	A	-	0.00001	0.00003	0.00006
	A	-	0.00373	0.00381	0.00388
	B	-	0.00348	0.00355	0.00364
	B	-	0.00012	0.00014	0.00015
	B	-	0.00004	0.00006	0.00008
	B	-	0.00378	0.00384	0.00391
	C	(A * B) + (!A * !B)	0.00249	0.00258	0.00266
	C	(A * B) + (!A * !B)	0.00002	0.00002	0.00005
	C	(A * B) + (!A * !B)	-0.00002	-0.00001	0.00000
	C	(A * B) + (!A * !B)	0.00188	0.00196	0.00204
	C	(A * !B) + (!A * B)	0.00099	0.00106	0.00115
	C	(A * !B) + (!A * B)	0.00009	0.00009	0.00009
	C	(A * !B) + (!A * B)	-0.00008	-0.00007	-0.00005
	C	(A * !B) + (!A * B)	0.00195	0.00203	0.00212

Internal switching power(pJ) to Y falling (conditional):

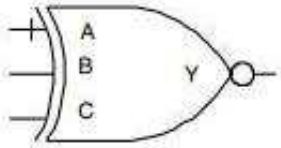
Cell Name	Input	When	Power(pJ)		
			min	avg	max
XNOR3X1H7H	A	-	0.00368	0.00378	0.00389
	A	-	0.00005	0.00005	0.00005
	A	-	0.00011	0.00011	0.00014
	A	-	0.00390	0.00398	0.00404
	B	-	0.00394	0.00401	0.00408
	B	-	0.00005	0.00005	0.00006
	B	-	0.00013	0.00014	0.00015
	B	-	0.00384	0.00392	0.00401
	C	(A * B) + (!A * !B)	0.00172	0.00181	0.00191
	C	(A * B) + (!A * !B)	-0.00003	-0.00002	-0.00002
	C	(A * B) + (!A * !B)	0.00000	0.00001	0.00002
	C	(A * B) + (!A * !B)	0.00234	0.00243	0.00253
	C	(A * !B) + (!A * B)	0.00220	0.00227	0.00236
	C	(A * !B) + (!A * B)	-0.00009	-0.00009	-0.00009
	C	(A * !B) + (!A * B)	0.00007	0.00007	0.00008
	C	(A * !B) + (!A * B)	0.00123	0.00130	0.00140

XNOR3X1P4H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The XNOR3 cell provides a logical EXCLUSIVE NOR of three inputs (A, B, C). The output (Y) is represented by the following equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	0	0	1
0	0	1	0
0	1	0	0
0	1	1	1
1	0	0	0
1	0	1	1
1	1	0	1
1	1	1	0

Footprint

Cell Name	Area
XNOR3X1P4H7H	5.88000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
XNOR3X1P4H7H	0.00194	0.00105	0.00112	0.04817

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
XNOR3X1P4H7H	0.00000	0.05920	0.06666

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XNOR3X1P4H7H	A->Y (-R)	-	0.17248	0.35584	0.80684
	B->Y (-R)	-	0.20461	0.39662	0.86911
	C->Y (RR)	(A * !B) + (!A * B)	0.09849	0.28257	0.73349
	C->Y (FR)	(A * B) + (!A * !B)	0.15138	0.33407	0.77236

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XNOR3X1P4H7H	A->Y (-F)	-	0.22768	0.37938	0.72867
	B->Y (-F)	-	0.26058	0.42297	0.80152
	C->Y (FF)	(A * !B) + (!A * B)	0.12889	0.29260	0.68376
	C->Y (RF)	(A * B) + (!A * !B)	0.16842	0.31422	0.63950

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
XNOR3X1P4H7H	A	-	0.00339	0.00348	0.00364
	A	-	0.00013	0.00013	0.00013
	A	-	0.00000	0.00003	0.00007
	A	-	0.00379	0.00387	0.00396
	B	-	0.00356	0.00364	0.00373
	B	-	0.00013	0.00013	0.00014
	B	-	0.00003	0.00006	0.00008
	B	-	0.00386	0.00393	0.00400
	C	(A * B) + (!A * !B)	0.00256	0.00265	0.00273
	C	(A * B) + (!A * !B)	0.00000	0.00001	0.00002
	C	(A * B) + (!A * !B)	-0.00001	-0.00000	0.00000
	C	(A * B) + (!A * !B)	0.00192	0.00201	0.00210
	C	(A * !B) + (!A * B)	0.00104	0.00112	0.00121
	C	(A * !B) + (!A * B)	0.00005	0.00009	0.00009
	C	(A * !B) + (!A * B)	-0.00008	-0.00007	-0.00004
	C	(A * !B) + (!A * B)	0.00200	0.00212	0.00327

Internal switching power(pJ) to Y falling (conditional):

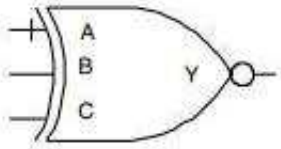
Cell Name	Input	When	Power(pJ)		
			min	avg	max
XNOR3X1P4H7H	A	-	0.00375	0.00385	0.00397
	A	-	0.00005	0.00006	0.00007
	A	-	0.00010	0.00011	0.00013
	A	-	0.00397	0.00406	0.00413
	B	-	0.00402	0.00411	0.00419
	B	-	0.00006	0.00006	0.00006
	B	-	0.00013	0.00014	0.00015
	B	-	0.00394	0.00403	0.00412
	C	(A * B) + (!A * !B)	0.00178	0.00188	0.00198
	C	(A * B) + (!A * !B)	-0.00002	-0.00001	0.00000
	C	(A * B) + (!A * !B)	0.00000	0.00000	0.00001
	C	(A * B) + (!A * !B)	0.00242	0.00252	0.00261
	C	(A * !B) + (!A * B)	0.00226	0.00233	0.00243
	C	(A * !B) + (!A * B)	-0.00009	-0.00009	-0.00005
	C	(A * !B) + (!A * B)	0.00007	0.00007	0.00008
	C	(A * !B) + (!A * B)	0.00129	0.00136	0.00146

XNOR3X2H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The XNOR3 cell provides a logical EXCLUSIVE NOR of three inputs (A, B, C). The output (Y) is represented by the following equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	0	0	1
0	0	1	0
0	1	0	0
0	1	1	1
1	0	0	0
1	0	1	1
1	1	0	1
1	1	1	0

Footprint

Cell Name	Area
XNOR3X2H7H	6.44000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
XNOR3X2H7H	0.00193	0.00109	0.00111	0.06067

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
XNOR3X2H7H	0.00000	0.05983	0.06393

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XNOR3X2H7H	A->Y (-R)	-	0.18066	0.36711	0.82142
	B->Y (-R)	-	0.20844	0.40166	0.87167
	C->Y (RR)	(A * !B) + (!A * B)	0.10796	0.29619	0.75469
	C->Y (FR)	(A * B) + (!A * !B)	0.16218	0.34780	0.78892

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XNOR3X2H7H	A->Y (-F)	-	0.23844	0.39082	0.73377
	B->Y (-F)	-	0.26699	0.42840	0.79595
	C->Y (FF)	(A * !B) + (!A * B)	0.14057	0.30570	0.69587
	C->Y (RF)	(A * B) + (!A * !B)	0.18282	0.32921	0.64874

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
XNOR3X2H7H	A	-	0.00363	0.00373	0.00392
	A	-	0.00011	0.00013	0.00013
	A	-	0.00003	0.00003	0.00005
	A	-	0.00402	0.00412	0.00423
	B	-	0.00381	0.00391	0.00402
	B	-	0.00012	0.00013	0.00014
	B	-	0.00008	0.00008	0.00011
	B	-	0.00410	0.00419	0.00429
	C	(A * B) + (!A * !B)	0.00281	0.00291	0.00302
	C	(A * B) + (!A * !B)	0.00000	0.00001	0.00003
	C	(A * B) + (!A * !B)	-0.00000	0.00000	0.00001
	C	(A * B) + (!A * !B)	0.00216	0.00227	0.00238
	C	(A * !B) + (!A * B)	0.00128	0.00138	0.00149
	C	(A * !B) + (!A * B)	0.00008	0.00008	0.00009
	C	(A * !B) + (!A * B)	-0.00006	-0.00006	-0.00006
	C	(A * !B) + (!A * B)	0.00224	0.00233	0.00245

Internal switching power(pJ) to Y falling (conditional):

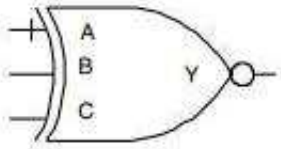
Cell Name	Input	When	Power(pJ)		
			min	avg	max
XNOR3X2H7H	A	-	0.00408	0.00421	0.00434
	A	-	0.00003	0.00006	0.00008
	A	-	0.00008	0.00010	0.00012
	A	-	0.00433	0.00443	0.00452
	B	-	0.00438	0.00449	0.00459
	B	-	0.00007	0.00007	0.00008
	B	-	0.00012	0.00013	0.00015
	B	-	0.00432	0.00442	0.00454
	C	(A * B) + (!A * !B)	0.00212	0.00224	0.00236
	C	(A * B) + (!A * !B)	-0.00001	-0.00001	0.00000
	C	(A * B) + (!A * !B)	0.00000	0.00000	0.00000
	C	(A * B) + (!A * !B)	0.00276	0.00288	0.00299
	C	(A * !B) + (!A * B)	0.00261	0.00270	0.00282
	C	(A * !B) + (!A * B)	-0.00009	-0.00008	-0.00008
	C	(A * !B) + (!A * B)	0.00006	0.00006	0.00006
	C	(A * !B) + (!A * B)	0.00166	0.00175	0.00187

XNOR3X3H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The XNOR3 cell provides a logical EXCLUSIVE NOR of three inputs (A, B, C). The output (Y) is represented by the following equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	0	0	1
0	0	1	0
0	1	0	0
0	1	1	1
1	0	0	0
1	0	1	1
1	1	0	1
1	1	1	0

Footprint

Cell Name	Area
XNOR3X3H7H	6.72000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
XNOR3X3H7H	0.00201	0.00114	0.00110	0.08619

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
XNOR3X3H7H	0.00000	0.08272	0.08488

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XNOR3X3H7H	A->Y (-R)	-	0.16036	0.34554	0.79561
	B->Y (-R)	-	0.19073	0.38319	0.85171
	C->Y (RR)	(A * !B) + (!A * B)	0.09252	0.27955	0.73431
	C->Y (FR)	(A * B) + (!A * !B)	0.14095	0.32484	0.76309

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XNOR3X3H7H	A->Y (-F)	-	0.20754	0.36093	0.70828
	B->Y (-F)	-	0.23867	0.40125	0.77446
	C->Y (FF)	(A * !B) + (!A * B)	0.11806	0.28289	0.66994
	C->Y (RF)	(A * B) + (!A * !B)	0.15548	0.30400	0.63179

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
XNOR3X3H7H	A	-	0.00414	0.00425	0.00442
	A	-	0.00014	0.00015	0.00015
	A	-	0.00005	0.00006	0.00006
	A	-	0.00446	0.00457	0.00467
	B	-	0.00433	0.00443	0.00455
	B	-	0.00013	0.00014	0.00014
	B	-	0.00010	0.00010	0.00010
	B	-	0.00458	0.00467	0.00477
	C	(A * B) + (!A * !B)	0.00316	0.00328	0.00339
	C	(A * B) + (!A * !B)	-0.00000	-0.00000	0.00000
	C	(A * B) + (!A * !B)	0.00000	0.00000	0.00004
	C	(A * B) + (!A * !B)	0.00249	0.00261	0.00271
	C	(A * !B) + (!A * B)	0.00150	0.00161	0.00175
	C	(A * !B) + (!A * B)	0.00008	0.00009	0.00009
	C	(A * !B) + (!A * B)	-0.00007	-0.00006	-0.00006
	C	(A * !B) + (!A * B)	0.00246	0.00257	0.00270

Internal switching power(pJ) to Y falling (conditional):

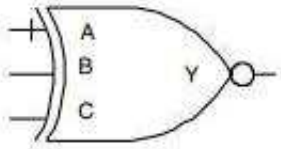
Cell Name	Input	When	Power(pJ)		
			min	avg	max
XNOR3X3H7H	A	-	0.00421	0.00434	0.00448
	A	-	0.00009	0.00010	0.00010
	A	-	0.00007	0.00011	0.00015
	A	-	0.00451	0.00463	0.00473
	B	-	0.00452	0.00463	0.00473
	B	-	0.00007	0.00009	0.00010
	B	-	0.00011	0.00015	0.00018
	B	-	0.00453	0.00465	0.00477
	C	(A * B) + (!A * !B)	0.00224	0.00236	0.00246
	C	(A * B) + (!A * !B)	0.00000	0.00000	0.00002
	C	(A * B) + (!A * !B)	-0.00001	-0.00000	0.00001
	C	(A * B) + (!A * !B)	0.00291	0.00303	0.00313
	C	(A * !B) + (!A * B)	0.00261	0.00272	0.00285
	C	(A * !B) + (!A * B)	-0.00009	-0.00009	-0.00008
	C	(A * !B) + (!A * B)	0.00006	0.00006	0.00007
	C	(A * !B) + (!A * B)	0.00166	0.00176	0.00189

XNOR3X4H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The XNOR3 cell provides a logical EXCLUSIVE NOR of three inputs (A, B, C). The output (Y) is represented by the following equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	0	0	1
0	0	1	0
0	1	0	0
0	1	1	1
1	0	0	0
1	0	1	1
1	1	0	1
1	1	1	0

Footprint

Cell Name	Area
XNOR3X4H7H	7.28000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
XNOR3X4H7H	0.00246	0.00117	0.00124	0.10851

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
XNOR3X4H7H	0.00000	0.10804	0.11557

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XNOR3X4H7H	A->Y (-R)	-	0.16600	0.34530	0.77857
	B->Y (-R)	-	0.19392	0.38751	0.85843
	C->Y (RR)	(A * !B) + (!A * B)	0.09592	0.28423	0.74001
	C->Y (FR)	(A * B) + (!A * !B)	0.13876	0.32187	0.75545

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XNOR3X4H7H	A->Y (-F)	-	0.20850	0.35084	0.66678
	B->Y (-F)	-	0.23701	0.39555	0.75587
	C->Y (FF)	(A * !B) + (!A * B)	0.11939	0.28000	0.65236
	C->Y (RF)	(A * B) + (!A * !B)	0.15352	0.29624	0.60541

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
XNOR3X4H7H	A	-	0.00481	0.00498	0.00525
	A	-	0.00015	0.00016	0.00033
	A	-	0.00008	0.00008	0.00008
	A	-	0.00531	0.00543	0.00556
	B	-	0.00499	0.00513	0.00528
	B	-	0.00014	0.00015	0.00015
	B	-	0.00012	0.00012	0.00012
	B	-	0.00523	0.00539	0.00556
	C	(A * B) + (!A * !B)	0.00370	0.00386	0.00399
	C	(A * B) + (!A * !B)	-0.00001	-0.00000	0.00000
	C	(A * B) + (!A * !B)	0.00001	0.00001	0.00001
	C	(A * B) + (!A * !B)	0.00294	0.00309	0.00323
	C	(A * !B) + (!A * B)	0.00191	0.00205	0.00222
	C	(A * !B) + (!A * B)	0.00009	0.00009	0.00009
	C	(A * !B) + (!A * B)	-0.00007	-0.00007	-0.00006
	C	(A * !B) + (!A * B)	0.00297	0.00311	0.00328

Internal switching power(pJ) to Y falling (conditional):

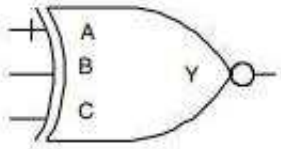
Cell Name	Input	When	Power(pJ)		
			min	avg	max
XNOR3X4H7H	A	-	0.00511	0.00529	0.00546
	A	-	0.00012	0.00012	0.00015
	A	-	0.00009	0.00012	0.00015
	A	-	0.00547	0.00561	0.00571
	B	-	0.00538	0.00552	0.00564
	B	-	0.00011	0.00011	0.00012
	B	-	0.00014	0.00016	0.00017
	B	-	0.00540	0.00556	0.00571
	C	(A * B) + (!A * !B)	0.00280	0.00295	0.00308
	C	(A * B) + (!A * !B)	0.00000	0.00000	0.00002
	C	(A * B) + (!A * !B)	-0.00001	-0.00001	-0.00001
	C	(A * B) + (!A * !B)	0.00356	0.00372	0.00385
	C	(A * !B) + (!A * B)	0.00317	0.00331	0.00346
	C	(A * !B) + (!A * B)	-0.00009	-0.00009	-0.00009
	C	(A * !B) + (!A * B)	0.00006	0.00007	0.00007
	C	(A * !B) + (!A * B)	0.00211	0.00224	0.00240

XNOR3X6H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The XNOR3 cell provides a logical EXCLUSIVE NOR of three inputs (A, B, C). The output (Y) is represented by the following equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	0	0	1
0	0	1	0
0	1	0	0
0	1	1	1
1	0	0	0
1	0	1	1
1	1	0	1
1	1	1	0

Footprint

Cell Name	Area
XNOR3X6H7H	7.56000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
XNOR3X6H7H	0.00244	0.00117	0.00124	0.16073

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
XNOR3X6H7H	0.00000	0.12382	0.13832

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XNOR3X6H7H	A->Y (-R)	-	0.17983	0.36168	0.79409
	B->Y (-R)	-	0.20771	0.40369	0.87325
	C->Y (RR)	(A * !B) + (!A * B)	0.10846	0.30156	0.76463
	C->Y (FR)	(A * B) + (!A * !B)	0.15242	0.33837	0.77136

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XNOR3X6H7H	A->Y (-F)	-	0.22729	0.37678	0.70030
	B->Y (-F)	-	0.25579	0.42137	0.78853
	C->Y (FF)	(A * !B) + (!A * B)	0.13740	0.30738	0.69580
	C->Y (RF)	(A * B) + (!A * !B)	0.17408	0.32427	0.64133

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
XNOR3X6H7H	A	-	0.00539	0.00560	0.00591
	A	-	0.00011	0.00012	0.00012
	A	-	0.00012	0.00012	0.00012
	A	-	0.00584	0.00602	0.00620
	B	-	0.00558	0.00577	0.00597
	B	-	0.00010	0.00011	0.00011
	B	-	0.00016	0.00016	0.00016
	B	-	0.00578	0.00598	0.00618
	C	(A * B) + (!A * !B)	0.00436	0.00455	0.00474
	C	(A * B) + (!A * !B)	-0.00005	-0.00005	-0.00004
	C	(A * B) + (!A * !B)	0.00005	0.00005	0.00005
	C	(A * B) + (!A * !B)	0.00351	0.00370	0.00389
	C	(A * !B) + (!A * B)	0.00254	0.00271	0.00294
	C	(A * !B) + (!A * B)	0.00004	0.00005	0.00005
	C	(A * !B) + (!A * B)	-0.00003	-0.00003	-0.00002
	C	(A * !B) + (!A * B)	0.00352	0.00369	0.00392

Internal switching power(pJ) to Y falling (conditional):

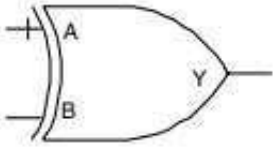
Cell Name	Input	When	Power(pJ)		
			min	avg	max
XNOR3X6H7H	A	-	0.00572	0.00592	0.00613
	A	-	0.00017	0.00017	0.00017
	A	-	0.00008	0.00009	0.00010
	A	-	0.00614	0.00633	0.00649
	B	-	0.00597	0.00615	0.00633
	B	-	0.00015	0.00016	0.00017
	B	-	0.00011	0.00013	0.00014
	B	-	0.00607	0.00628	0.00648
	C	(A * B) + (!A * !B)	0.00342	0.00362	0.00379
	C	(A * B) + (!A * !B)	0.00004	0.00005	0.00005
	C	(A * B) + (!A * !B)	-0.00005	-0.00005	-0.00005
	C	(A * B) + (!A * !B)	0.00427	0.00447	0.00464
	C	(A * !B) + (!A * B)	0.00381	0.00398	0.00418
	C	(A * !B) + (!A * B)	-0.00005	-0.00005	-0.00004
	C	(A * !B) + (!A * B)	0.00002	0.00003	0.00003
	C	(A * !B) + (!A * B)	0.00283	0.00298	0.00320

XOR2X0P5H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The XOR2 cell provides a logical EXCLUSIVE OR of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	0	0
0	1	1
1	0	1
1	1	0

Footprint

Cell Name	Area
XOR2X0P5H7H	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
XOR2X0P5H7H	0.00190	0.00099	0.03026

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
XOR2X0P5H7H	0.00000	0.02879	0.03238

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XOR2X0P5H7H	A->Y (RR)	!B	0.07286	0.23814	0.64055
	A->Y (FR)	B	0.09701	0.27038	0.68481
	B->Y (RR)	!A	0.09549	0.27448	0.71471
	B->Y (FR)	A	0.13311	0.30937	0.73593

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XOR2X0P5H7H	A->Y (FF)	!B	0.07447	0.21147	0.53686
	A->Y (RF)	B	0.12413	0.25340	0.54228
	B->Y (FF)	!A	0.11610	0.26977	0.63938
	B->Y (RF)	A	0.14481	0.28041	0.58742

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
XOR2X0P5H7H	A	B	0.00186	0.00192	0.00205
	A	B	0.00002	0.00002	0.00003
	A	B	-0.00003	-0.00003	-0.00002
	A	B	0.00101	0.00107	0.00120
	A	!B	0.00049	0.00057	0.00066
	A	!B	0.00010	0.00011	0.00011
	A	!B	-0.00005	-0.00005	-0.00005
	A	!B	0.00200	0.00208	0.00217
	B	A	0.00194	0.00200	0.00208
	B	A	0.00002	0.00003	0.00003
	B	A	-0.00002	-0.00002	-0.00001
	B	A	0.00145	0.00152	0.00160
	B	!A	0.00088	0.00093	0.00100
	B	!A	0.00010	0.00010	0.00010
	B	!A	-0.00008	-0.00008	-0.00008
	B	!A	0.00210	0.00215	0.00222

Internal switching power(pJ) to Y falling (conditional):

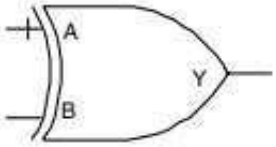
Cell Name	Input	When	Power(pJ)		
			min	avg	max
XOR2X0P5H7H	A	B	0.00128	0.00136	0.00143
	A	B	-0.00002	-0.00002	-0.00002
	A	B	0.00004	0.00005	0.00005
	A	B	0.00210	0.00218	0.00225
	A	!B	0.00172	0.00180	0.00188
	A	!B	-0.00009	-0.00008	-0.00008
	A	!B	0.00005	0.00005	0.00006
	A	!B	0.00023	0.00030	0.00039
	B	A	0.00155	0.00162	0.00170
	B	A	-0.00003	-0.00003	-0.00002
	B	A	0.00001	0.00002	0.00002
	B	A	0.00204	0.00211	0.00219
	B	!A	0.00193	0.00198	0.00205
	B	!A	-0.00010	-0.00010	-0.00010
	B	!A	0.00008	0.00008	0.00008
	B	!A	0.00072	0.00077	0.00084

XOR2X0P7H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The XOR2 cell provides a logical EXCLUSIVE OR of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	0	0
0	1	1
1	0	1
1	1	0

Footprint

Cell Name	Area
XOR2X0P7H7H	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
XOR2X0P7H7H	0.00190	0.00101	0.03464

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
XOR2X0P7H7H	0.00000	0.02966	0.03189

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XOR2X0P7H7H	A->Y (RR)	!B	0.07129	0.23832	0.64481
	A->Y (FR)	B	0.09564	0.27047	0.68804
	B->Y (RR)	!A	0.09516	0.27598	0.72057
	B->Y (FR)	A	0.13274	0.31072	0.74101

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XOR2X0P7H7H	A->Y (FF)	!B	0.07394	0.21337	0.54369
	A->Y (RF)	B	0.12382	0.25507	0.54726
	B->Y (FF)	!A	0.11716	0.27335	0.64869
	B->Y (RF)	A	0.14493	0.28295	0.59439

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
XOR2X0P7H7H	A	B	0.00189	0.00195	0.00210
	A	B	0.00002	0.00002	0.00002
	A	B	-0.00003	-0.00003	-0.00002
	A	B	0.00103	0.00109	0.00122
	A	!B	0.00051	0.00059	0.00069
	A	!B	0.00009	0.00010	0.00010
	A	!B	-0.00005	-0.00005	-0.00005
	A	!B	0.00202	0.00210	0.00219
	B	A	0.00199	0.00206	0.00215
	B	A	0.00002	0.00002	0.00002
	B	A	-0.00001	-0.00001	-0.00001
	B	A	0.00149	0.00156	0.00164
	B	!A	0.00090	0.00096	0.00103
	B	!A	0.00009	0.00010	0.00010
	B	!A	-0.00008	-0.00008	-0.00008
	B	!A	0.00212	0.00218	0.00225

Internal switching power(pJ) to Y falling (conditional):

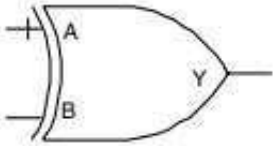
Cell Name	Input	When	Power(pJ)		
			min	avg	max
XOR2X0P7H7H	A	B	0.00130	0.00137	0.00145
	A	B	-0.00002	-0.00002	-0.00002
	A	B	0.00004	0.00004	0.00005
	A	B	0.00213	0.00221	0.00228
	A	!B	0.00174	0.00182	0.00191
	A	!B	-0.00009	-0.00008	-0.00007
	A	!B	0.00005	0.00005	0.00005
	A	!B	0.00026	0.00034	0.00042
	B	A	0.00156	0.00163	0.00171
	B	A	-0.00002	-0.00002	-0.00002
	B	A	0.00001	0.00001	0.00001
	B	A	0.00207	0.00215	0.00223
	B	!A	0.00198	0.00204	0.00211
	B	!A	-0.00010	-0.00010	-0.00009
	B	!A	0.00008	0.00008	0.00008
	B	!A	0.00077	0.00083	0.00090

XOR2X1H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The XOR2 cell provides a logical EXCLUSIVE OR of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	0	0
0	1	1
1	0	1
1	1	0

Footprint

Cell Name	Area
XOR2X1H7H	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
XOR2X1H7H	0.00189	0.00101	0.04144

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
XOR2X1H7H	0.00000	0.03172	0.03498

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XOR2X1H7H	A->Y (RR)	!B	0.07048	0.23936	0.64961
	A->Y (FR)	B	0.09412	0.26998	0.68846
	B->Y (RR)	!A	0.09428	0.27647	0.72360
	B->Y (FR)	A	0.13198	0.31110	0.74289

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XOR2X1H7H	A->Y (FF)	!B	0.07473	0.21924	0.56107
	A->Y (RF)	B	0.12414	0.25969	0.56020
	B->Y (FF)	!A	0.11798	0.27866	0.66380
	B->Y (RF)	A	0.14591	0.28824	0.60865

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
XOR2X1H7H	A	B	0.00192	0.00199	0.00214
	A	B	0.00000	0.00001	0.00002
	A	B	-0.00002	-0.00002	0.00000
	A	B	0.00106	0.00113	0.00127
	A	!B	0.00056	0.00064	0.00074
	A	!B	0.00006	0.00009	0.00010
	A	!B	-0.00005	-0.00005	-0.00004
	A	!B	0.00205	0.00214	0.00223
	B	A	0.00205	0.00212	0.00220
	B	A	0.00002	0.00002	0.00002
	B	A	-0.00002	-0.00001	-0.00001
	B	A	0.00153	0.00161	0.00169
	B	!A	0.00095	0.00102	0.00109
	B	!A	0.00009	0.00009	0.00009
	B	!A	-0.00008	-0.00007	-0.00007
	B	!A	0.00217	0.00223	0.00231

Internal switching power(pJ) to Y falling (conditional):

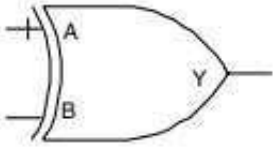
Cell Name	Input	When	Power(pJ)		
			min	avg	max
XOR2X1H7H	A	B	0.00134	0.00142	0.00149
	A	B	-0.00001	-0.00001	0.00000
	A	B	0.00000	0.00004	0.00005
	A	B	0.00217	0.00225	0.00232
	A	!B	0.00176	0.00185	0.00194
	A	!B	-0.00008	-0.00007	-0.00006
	A	!B	0.00004	0.00005	0.00005
	A	!B	0.00029	0.00038	0.00047
	B	A	0.00159	0.00167	0.00176
	B	A	-0.00002	-0.00002	-0.00002
	B	A	0.00001	0.00001	0.00004
	B	A	0.00211	0.00219	0.00228
	B	!A	0.00202	0.00209	0.00216
	B	!A	-0.00009	-0.00009	-0.00009
	B	!A	0.00007	0.00007	0.00008
	B	!A	0.00082	0.00088	0.00096

XOR2X1P4H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The XOR2 cell provides a logical EXCLUSIVE OR of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	0	0
0	1	1
1	0	1
1	1	0

Footprint

Cell Name	Area
XOR2X1P4H7H	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
XOR2X1P4H7H	0.00190	0.00101	0.04718

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
XOR2X1P4H7H	0.00000	0.03450	0.04039

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XOR2X1P4H7H	A->Y (RR)	!B	0.07046	0.24074	0.65414
	A->Y (FR)	B	0.09390	0.27055	0.69017
	B->Y (RR)	!A	0.09415	0.27724	0.72581
	B->Y (FR)	A	0.13210	0.31194	0.74470

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XOR2X1P4H7H	A->Y (FF)	!B	0.07535	0.22248	0.56959
	A->Y (RF)	B	0.12519	0.26276	0.56640
	B->Y (FF)	!A	0.11862	0.28143	0.67038
	B->Y (RF)	A	0.14700	0.29126	0.61453

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
XOR2X1P4H7H	A	B	0.00197	0.00204	0.00220
	A	B	0.00000	0.00001	0.00002
	A	B	-0.00002	-0.00002	-0.00000
	A	B	0.00110	0.00117	0.00131
	A	!B	0.00061	0.00070	0.00081
	A	!B	0.00008	0.00009	0.00009
	A	!B	-0.00004	-0.00004	-0.00004
	A	!B	0.00209	0.00219	0.00229
	B	A	0.00209	0.00217	0.00226
	B	A	0.00001	0.00001	0.00001
	B	A	-0.00001	-0.00001	0.00000
	B	A	0.00157	0.00165	0.00174
	B	!A	0.00100	0.00106	0.00114
	B	!A	0.00008	0.00009	0.00009
	B	!A	-0.00007	-0.00007	-0.00007
	B	!A	0.00221	0.00227	0.00235

Internal switching power(pJ) to Y falling (conditional):

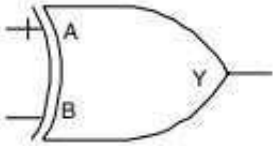
Cell Name	Input	When	Power(pJ)		
			min	avg	max
XOR2X1P4H7H	A	B	0.00137	0.00146	0.00153
	A	B	-0.00001	-0.00001	0.00000
	A	B	0.00000	0.00003	0.00008
	A	B	0.00221	0.00229	0.00237
	A	!B	0.00179	0.00188	0.00198
	A	!B	-0.00007	-0.00006	-0.00005
	A	!B	0.00004	0.00004	0.00004
	A	!B	0.00033	0.00042	0.00052
	B	A	0.00163	0.00171	0.00180
	B	A	-0.00001	-0.00001	-0.00001
	B	A	0.00000	0.00001	0.00003
	B	A	0.00215	0.00224	0.00232
	B	!A	0.00205	0.00212	0.00220
	B	!A	-0.00009	-0.00009	-0.00008
	B	!A	0.00007	0.00007	0.00007
	B	!A	0.00086	0.00092	0.00100

XOR2X2H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The XOR2 cell provides a logical EXCLUSIVE OR of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	0	0
0	1	1
1	0	1
1	1	0

Footprint

Cell Name	Area
XOR2X2H7H	3.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
XOR2X2H7H	0.00191	0.00100	0.06053

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
XOR2X2H7H	0.00000	0.03464	0.03967

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XOR2X2H7H	A->Y (RR)	!B	0.08299	0.26010	0.68772
	A->Y (FR)	B	0.10315	0.28234	0.70324
	B->Y (RR)	!A	0.10464	0.29140	0.74669
	B->Y (FR)	A	0.14472	0.32679	0.76030

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XOR2X2H7H	A->Y (FF)	!B	0.09182	0.24305	0.59754
	A->Y (RF)	B	0.14045	0.27821	0.57341
	B->Y (FF)	!A	0.13156	0.29496	0.68172
	B->Y (RF)	A	0.16421	0.30810	0.62298

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
XOR2X2H7H	A	B	0.00223	0.00233	0.00250
	A	B	0.00000	0.00000	0.00001
	A	B	-0.00001	-0.00001	0.00000
	A	B	0.00135	0.00144	0.00160
	A	!B	0.00090	0.00101	0.00114
	A	!B	0.00008	0.00009	0.00009
	A	!B	-0.00003	-0.00003	-0.00003
	A	!B	0.00237	0.00249	0.00263
	B	A	0.00238	0.00249	0.00260
	B	A	0.00001	0.00001	0.00001
	B	A	-0.00000	-0.00000	0.00000
	B	A	0.00185	0.00196	0.00207
	B	!A	0.00128	0.00136	0.00147
	B	!A	0.00008	0.00008	0.00008
	B	!A	-0.00006	-0.00006	-0.00006
	B	!A	0.00247	0.00256	0.00267

Internal switching power(pJ) to Y falling (conditional):

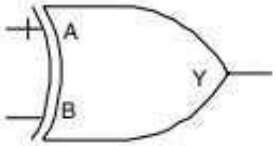
Cell Name	Input	When	Power(pJ)		
			min	avg	max
XOR2X2H7H	A	B	0.00175	0.00184	0.00193
	A	B	-0.00001	-0.00000	0.00005
	A	B	0.00000	0.00002	0.00004
	A	B	0.00260	0.00270	0.00278
	A	!B	0.00216	0.00228	0.00240
	A	!B	-0.00007	-0.00006	-0.00006
	A	!B	0.00003	0.00003	0.00004
	A	!B	0.00071	0.00082	0.00095
	B	A	0.00201	0.00212	0.00223
	B	A	-0.00001	-0.00001	0.00000
	B	A	0.00000	0.00000	0.00000
	B	A	0.00255	0.00265	0.00276
	B	!A	0.00242	0.00250	0.00261
	B	!A	-0.00008	-0.00008	-0.00008
	B	!A	0.00006	0.00006	0.00006
	B	!A	0.00124	0.00132	0.00142

XOR2X3H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The XOR2 cell provides a logical EXCLUSIVE OR of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	0	0
0	1	1
1	0	1
1	1	0

Footprint

Cell Name	Area
XOR2X3H7H	3.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
XOR2X3H7H	0.00198	0.00110	0.08614

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
XOR2X3H7H	0.00000	0.04910	0.05510

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XOR2X3H7H	A->Y (RR)	!B	0.07190	0.24789	0.67269
	A->Y (FR)	B	0.09912	0.27921	0.70087
	B->Y (RR)	!A	0.09626	0.28263	0.73523
	B->Y (FR)	A	0.12380	0.30305	0.72839

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XOR2X3H7H	A->Y (FF)	!B	0.09002	0.24747	0.61663
	A->Y (RF)	B	0.12075	0.26009	0.56229
	B->Y (FF)	!A	0.11760	0.28235	0.66696
	B->Y (RF)	A	0.13919	0.28331	0.60064

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
XOR2X3H7H	A	B	0.00253	0.00265	0.00283
	A	B	-0.00001	-0.00001	0.00000
	A	B	-0.00000	-0.00000	0.00000
	A	B	0.00160	0.00171	0.00189
	A	!B	0.00111	0.00124	0.00139
	A	!B	0.00009	0.00010	0.00010
	A	!B	-0.00002	-0.00002	-0.00002
	A	!B	0.00265	0.00278	0.00292
	B	A	0.00272	0.00284	0.00297
	B	A	0.00000	0.00000	0.00000
	B	A	0.00000	0.00000	0.00000
	B	A	0.00213	0.00225	0.00238
	B	!A	0.00153	0.00163	0.00175
	B	!A	0.00008	0.00008	0.00008
	B	!A	-0.00006	-0.00006	-0.00006
	B	!A	0.00281	0.00291	0.00304

Internal switching power(pJ) to Y falling (conditional):

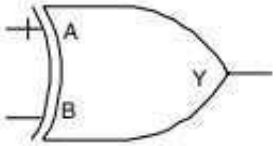
Cell Name	Input	When	Power(pJ)		
			min	avg	max
XOR2X3H7H	A	B	0.00195	0.00207	0.00216
	A	B	0.00000	0.00001	0.00001
	A	B	0.00000	0.00003	0.00003
	A	B	0.00284	0.00296	0.00305
	A	!B	0.00235	0.00248	0.00262
	A	!B	-0.00006	-0.00006	-0.00006
	A	!B	0.00002	0.00002	0.00003
	A	!B	0.00085	0.00098	0.00113
	B	A	0.00226	0.00239	0.00252
	B	A	-0.00000	-0.00000	0.00000
	B	A	-0.00000	-0.00000	0.00000
	B	A	0.00286	0.00299	0.00312
	B	!A	0.00267	0.00277	0.00289
	B	!A	-0.00008	-0.00008	-0.00008
	B	!A	0.00006	0.00006	0.00006
	B	!A	0.00140	0.00149	0.00161

XOR2X4H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The XOR2 cell provides a logical EXCLUSIVE OR of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	0	0
0	1	1
1	0	1
1	1	0

Footprint

Cell Name	Area
XOR2X4H7H	3.64000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
XOR2X4H7H	0.00198	0.00118	0.10847

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
XOR2X4H7H	0.00000	0.05677	0.06255

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XOR2X4H7H	A->Y (RR)	!B	0.07370	0.25200	0.68150
	A->Y (FR)	B	0.10584	0.28797	0.71169
	B->Y (RR)	!A	0.10049	0.28766	0.73920
	B->Y (FR)	A	0.12323	0.30209	0.72477

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XOR2X4H7H	A->Y (FF)	!B	0.09931	0.25704	0.62388
	A->Y (RF)	B	0.12382	0.25899	0.54723
	B->Y (FF)	!A	0.12147	0.28269	0.65356
	B->Y (RF)	A	0.13991	0.27841	0.57765

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
XOR2X4H7H	A	B	0.00288	0.00302	0.00322
	A	B	-0.00003	-0.00003	-0.00000
	A	B	0.00001	0.00001	0.00001
	A	B	0.00191	0.00204	0.00224
	A	!B	0.00146	0.00162	0.00179
	A	!B	0.00009	0.00009	0.00009
	A	!B	-0.00001	-0.00001	-0.00000
	A	!B	0.00298	0.00314	0.00331
	B	A	0.00313	0.00329	0.00345
	B	A	-0.00000	-0.00000	0.00000
	B	A	0.00000	0.00001	0.00001
	B	A	0.00247	0.00263	0.00279
	B	!A	0.00186	0.00199	0.00215
	B	!A	0.00007	0.00007	0.00007
	B	!A	-0.00005	-0.00005	-0.00005
	B	!A	0.00316	0.00329	0.00345

Internal switching power(pJ) to Y falling (conditional):

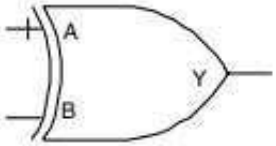
Cell Name	Input	When	Power(pJ)		
			min	avg	max
XOR2X4H7H	A	B	0.00235	0.00249	0.00260
	A	B	0.00003	0.00003	0.00003
	A	B	0.00002	0.00002	0.00002
	A	B	0.00328	0.00341	0.00352
	A	!B	0.00269	0.00285	0.00302
	A	!B	-0.00006	-0.00005	-0.00004
	A	!B	0.00000	0.00001	0.00001
	A	!B	0.00122	0.00137	0.00155
	B	A	0.00268	0.00284	0.00300
	B	A	0.00000	0.00000	0.00000
	B	A	-0.00001	-0.00001	0.00000
	B	A	0.00336	0.00351	0.00367
	B	!A	0.00307	0.00319	0.00334
	B	!A	-0.00007	-0.00007	-0.00007
	B	!A	0.00005	0.00005	0.00005
	B	!A	0.00178	0.00190	0.00204

XOR2X6H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The XOR2 cell provides a logical EXCLUSIVE OR of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	0	0
0	1	1
1	0	1
1	1	0

Footprint

Cell Name	Area
XOR2X6H7H	4.20000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
XOR2X6H7H	0.00205	0.00173	0.16265

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
XOR2X6H7H	0.00000	0.07645	0.08016

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XOR2X6H7H	A->Y (RR)	!B	0.08693	0.27365	0.72130
	A->Y (FR)	B	0.10577	0.28925	0.71061
	B->Y (RR)	!A	0.10151	0.28535	0.72311
	B->Y (FR)	A	0.13238	0.31054	0.72288

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XOR2X6H7H	A->Y (FF)	!B	0.10902	0.27604	0.66222
	A->Y (RF)	B	0.14152	0.28434	0.58056
	B->Y (FF)	!A	0.12488	0.28810	0.65645
	B->Y (RF)	A	0.15718	0.29813	0.59286

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
XOR2X6H7H	A	B	0.00350	0.00370	0.00395
	A	B	-0.00008	-0.00007	-0.00003
	A	B	0.00003	0.00005	0.00006
	A	B	0.00241	0.00260	0.00284
	A	!B	0.00205	0.00224	0.00246
	A	!B	0.00004	0.00005	0.00008
	A	!B	0.00002	0.00003	0.00003
	A	!B	0.00355	0.00375	0.00398
	B	A	0.00401	0.00423	0.00445
	B	A	-0.00005	-0.00005	-0.00005
	B	A	0.00002	0.00006	0.00009
	B	A	0.00286	0.00307	0.00329
	B	!A	0.00242	0.00260	0.00282
	B	!A	0.00003	0.00004	0.00004
	B	!A	-0.00003	-0.00003	-0.00002
	B	!A	0.00408	0.00426	0.00448

Internal switching power(pJ) to Y falling (conditional):

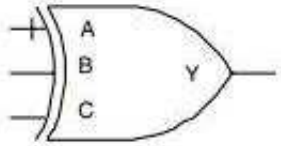
Cell Name	Input	When	Power(pJ)		
			min	avg	max
XOR2X6H7H	A	B	0.00295	0.00313	0.00328
	A	B	0.00003	0.00008	0.00009
	A	B	-0.00005	-0.00002	-0.00002
	A	B	0.00400	0.00417	0.00432
	A	!B	0.00337	0.00358	0.00379
	A	!B	-0.00002	-0.00001	-0.00000
	A	!B	-0.00003	-0.00003	-0.00002
	A	!B	0.00192	0.00212	0.00233
	B	A	0.00326	0.00347	0.00368
	B	A	0.00005	0.00005	0.00005
	B	A	-0.00007	-0.00006	-0.00002
	B	A	0.00443	0.00464	0.00487
	B	!A	0.00397	0.00414	0.00434
	B	!A	-0.00004	-0.00004	-0.00003
	B	!A	0.00002	0.00003	0.00003
	B	!A	0.00231	0.00248	0.00269

XOR3X0P5H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The XOR3 cell provides a logical EXCLUSIVE OR of three inputs (A, B, C). The output (Y) is represented by the following equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	0	0	0
0	0	1	1
0	1	0	1
0	1	1	0
1	0	0	1
1	0	1	0
1	1	0	0
1	1	1	1

Footprint

Cell Name	Area
XOR3X0P5H7H	5.88000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
XOR3X0P5H7H	0.00192	0.00099	0.00108	0.03029

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
XOR3X0P5H7H	0.00000	0.05174	0.05344

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XOR3X0P5H7H	A->Y (-R)	-	0.19035	0.36883	0.81644
	B->Y (-R)	-	0.21612	0.40620	0.88052
	C->Y (RR)	(A * B) + (!A * !B)	0.09893	0.27928	0.72288
	C->Y (FR)	(A * !B) + (!A * B)	0.15367	0.33379	0.77051

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XOR3X0P5H7H	A->Y (-F)	-	0.24274	0.38510	0.72270
	B->Y (-F)	-	0.26916	0.42474	0.79575
	C->Y (FF)	(A * B) + (!A * !B)	0.12512	0.28008	0.65396
	C->Y (RF)	(A * !B) + (!A * B)	0.16579	0.30418	0.61823

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
XOR3X0P5H7H	A	-	0.00336	0.00344	0.00355
	A	-	0.00010	0.00011	0.00012
	A	-	0.00005	0.00006	0.00006
	A	-	0.00368	0.00374	0.00388
	B	-	0.00376	0.00383	0.00390
	B	-	0.00006	0.00015	0.00015
	B	-	0.00004	0.00005	0.00005
	B	-	0.00331	0.00338	0.00429
	C	(A * B) + (!A * !B)	0.00091	0.00097	0.00104
	C	(A * B) + (!A * !B)	0.00010	0.00010	0.00010
	C	(A * B) + (!A * !B)	-0.00009	-0.00008	-0.00007
	C	(A * B) + (!A * !B)	0.00188	0.00194	0.00202
	C	(A * !B) + (!A * B)	0.00244	0.00251	0.00259
	C	(A * !B) + (!A * B)	0.00003	0.00003	0.00007
	C	(A * !B) + (!A * B)	-0.00002	-0.00002	-0.00001
	C	(A * !B) + (!A * B)	0.00182	0.00189	0.00197

Internal switching power(pJ) to Y falling (conditional):

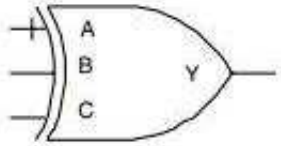
Cell Name	Input	When	Power(pJ)		
			min	avg	max
XOR3X0P5H7H	A	-	0.00384	0.00393	0.00403
	A	-	-0.00002	0.00001	0.00006
	A	-	0.00012	0.00015	0.00018
	A	-	0.00385	0.00391	0.00404
	B	-	0.00426	0.00432	0.00439
	B	-	0.00003	0.00004	0.00005
	B	-	0.00014	0.00015	0.00016
	B	-	0.00369	0.00376	0.00384
	C	(A * B) + (!A * !B)	0.00209	0.00215	0.00223
	C	(A * B) + (!A * !B)	-0.00010	-0.00010	-0.00010
	C	(A * B) + (!A * !B)	0.00007	0.00008	0.00009
	C	(A * B) + (!A * !B)	0.00112	0.00119	0.00126
	C	(A * !B) + (!A * B)	0.00165	0.00173	0.00182
	C	(A * !B) + (!A * B)	-0.00004	-0.00003	-0.00003
	C	(A * !B) + (!A * B)	0.00001	0.00002	0.00003
	C	(A * !B) + (!A * B)	0.00227	0.00235	0.00244

XOR3X0P7H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The XOR3 cell provides a logical EXCLUSIVE OR of three inputs (A, B, C). The output (Y) is represented by the following equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	0	0	0
0	0	1	1
0	1	0	1
0	1	1	0
1	0	0	1
1	0	1	0
1	1	0	0
1	1	1	1

Footprint

Cell Name	Area
XOR3X0P7H7H	5.88000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
XOR3X0P7H7H	0.00192	0.00099	0.00109	0.03451

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
XOR3X0P7H7H	0.00000	0.05260	0.05295

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XOR3X0P7H7H	A->Y (-R)	-	0.18753	0.36673	0.81510
	B->Y (-R)	-	0.21355	0.40441	0.87990
	C->Y (RR)	(A * B) + (!A * !B)	0.09664	0.27774	0.72273
	C->Y (FR)	(A * !B) + (!A * B)	0.15078	0.33158	0.76911

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XOR3X0P7H7H	A->Y (-F)	-	0.23968	0.38340	0.72266
	B->Y (-F)	-	0.26632	0.42337	0.79642
	C->Y (FF)	(A * B) + (!A * !B)	0.12362	0.28026	0.65689
	C->Y (RF)	(A * !B) + (!A * B)	0.16382	0.30364	0.61962

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
XOR3X0P7H7H	A	-	0.00335	0.00344	0.00354
	A	-	0.00010	0.00011	0.00011
	A	-	0.00006	0.00006	0.00006
	A	-	0.00368	0.00374	0.00387
	B	-	0.00375	0.00382	0.00389
	B	-	0.00014	0.00014	0.00015
	B	-	0.00005	0.00005	0.00006
	B	-	0.00352	0.00360	0.00368
	C	(A * B) + (!A * !B)	0.00091	0.00097	0.00105
	C	(A * B) + (!A * !B)	0.00010	0.00010	0.00010
	C	(A * B) + (!A * !B)	-0.00009	-0.00008	-0.00008
	C	(A * B) + (!A * !B)	0.00188	0.00195	0.00203
	C	(A * !B) + (!A * B)	0.00244	0.00252	0.00260
	C	(A * !B) + (!A * B)	0.00001	0.00002	0.00004
	C	(A * !B) + (!A * B)	-0.00002	-0.00001	-0.00001
	C	(A * !B) + (!A * B)	0.00182	0.00189	0.00198

Internal switching power(pJ) to Y falling (conditional):

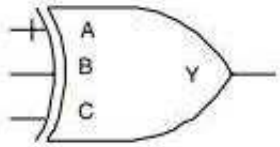
Cell Name	Input	When	Power(pJ)		
			min	avg	max
XOR3X0P7H7H	A	-	0.00383	0.00391	0.00401
	A	-	0.00000	0.00001	0.00001
	A	-	0.00014	0.00015	0.00017
	A	-	0.00382	0.00390	0.00403
	B	-	0.00424	0.00431	0.00437
	B	-	0.00004	0.00005	0.00005
	B	-	0.00013	0.00014	0.00016
	B	-	0.00368	0.00375	0.00383
	C	(A * B) + (!A * !B)	0.00210	0.00216	0.00224
	C	(A * B) + (!A * !B)	-0.00010	-0.00010	-0.00010
	C	(A * B) + (!A * !B)	0.00008	0.00008	0.00009
	C	(A * B) + (!A * !B)	0.00113	0.00119	0.00127
	C	(A * !B) + (!A * B)	0.00165	0.00173	0.00182
	C	(A * !B) + (!A * B)	-0.00003	-0.00002	-0.00001
	C	(A * !B) + (!A * B)	0.00001	0.00001	0.00002
	C	(A * !B) + (!A * B)	0.00227	0.00236	0.00244

XOR3X1H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The XOR3 cell provides a logical EXCLUSIVE OR of three inputs (A, B, C). The output (Y) is represented by the following equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	0	0	0
0	0	1	1
0	1	0	1
0	1	1	0
1	0	0	1
1	0	1	0
1	1	0	0
1	1	1	1

Footprint

Cell Name	Area
XOR3X1H7H	5.88000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
XOR3X1H7H	0.00191	0.00099	0.00112	0.04132

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
XOR3X1H7H	0.00000	0.05466	0.05604

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XOR3X1H7H	A->Y (-R)	-	0.19039	0.37125	0.82270
	B->Y (-R)	-	0.21631	0.40868	0.88621
	C->Y (RR)	(A * B) + (!A * !B)	0.09831	0.28130	0.72996
	C->Y (FR)	(A * !B) + (!A * B)	0.15021	0.33212	0.77034

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XOR3X1H7H	A->Y (-F)	-	0.24466	0.39319	0.74219
	B->Y (-F)	-	0.27121	0.43295	0.81535
	C->Y (FF)	(A * B) + (!A * !B)	0.12766	0.28948	0.67773
	C->Y (RF)	(A * !B) + (!A * B)	0.16591	0.31001	0.63397

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
XOR3X1H7H	A	-	0.00343	0.00352	0.00363
	A	-	0.00010	0.00010	0.00011
	A	-	0.00005	0.00006	0.00008
	A	-	0.00376	0.00383	0.00397
	B	-	0.00382	0.00391	0.00399
	B	-	0.00013	0.00014	0.00014
	B	-	0.00002	0.00006	0.00008
	B	-	0.00360	0.00369	0.00378
	C	(A * B) + (!A * !B)	0.00099	0.00106	0.00114
	C	(A * B) + (!A * !B)	0.00009	0.00009	0.00010
	C	(A * B) + (!A * !B)	-0.00008	-0.00007	-0.00006
	C	(A * B) + (!A * !B)	0.00197	0.00204	0.00213
	C	(A * !B) + (!A * B)	0.00249	0.00257	0.00266
	C	(A * !B) + (!A * B)	0.00001	0.00002	0.00003
	C	(A * !B) + (!A * B)	-0.00002	-0.00001	0.00001
	C	(A * !B) + (!A * B)	0.00187	0.00195	0.00204

Internal switching power(pJ) to Y falling (conditional):

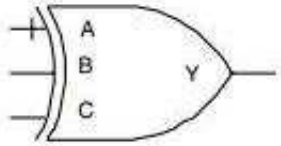
Cell Name	Input	When	Power(pJ)		
			min	avg	max
XOR3X1H7H	A	-	0.00392	0.00402	0.00412
	A	-	-0.00000	0.00001	0.00002
	A	-	0.00014	0.00015	0.00016
	A	-	0.00391	0.00400	0.00413
	B	-	0.00434	0.00441	0.00449
	B	-	0.00005	0.00005	0.00005
	B	-	0.00014	0.00014	0.00015
	B	-	0.00377	0.00385	0.00393
	C	(A * B) + (!A * !B)	0.00220	0.00227	0.00236
	C	(A * B) + (!A * !B)	-0.00010	-0.00009	-0.00009
	C	(A * B) + (!A * !B)	0.00006	0.00007	0.00008
	C	(A * B) + (!A * !B)	0.00122	0.00129	0.00138
	C	(A * !B) + (!A * B)	0.00171	0.00181	0.00190
	C	(A * !B) + (!A * B)	-0.00003	-0.00002	-0.00001
	C	(A * !B) + (!A * B)	0.00000	0.00001	0.00002
	C	(A * !B) + (!A * B)	0.00233	0.00243	0.00252

XOR3X1P4H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The XOR3 cell provides a logical EXCLUSIVE OR of three inputs (A, B, C). The output (Y) is represented by the following equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	0	0	0
0	0	1	1
0	1	0	1
0	1	1	0
1	0	0	1
1	0	1	0
1	1	0	0
1	1	1	1

Footprint

Cell Name	Area
XOR3X1P4H7H	5.88000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
XOR3X1P4H7H	0.00191	0.00099	0.00113	0.04710

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
XOR3X1P4H7H	0.00000	0.05812	0.06113

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XOR3X1P4H7H	A->Y (-R)	-	0.19152	0.37337	0.82594
	B->Y (-R)	-	0.21752	0.41083	0.88952
	C->Y (RR)	(A * B) + (!A * !B)	0.09783	0.28197	0.73333
	C->Y (FR)	(A * !B) + (!A * B)	0.14992	0.33266	0.77148

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XOR3X1P4H7H	A->Y (-F)	-	0.24324	0.39376	0.74544
	B->Y (-F)	-	0.26984	0.43367	0.81911
	C->Y (FF)	(A * B) + (!A * !B)	0.12851	0.29247	0.68482
	C->Y (RF)	(A * !B) + (!A * B)	0.16662	0.31276	0.63999

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
XOR3X1P4H7H	A	-	0.00347	0.00356	0.00368
	A	-	0.00009	0.00009	0.00010
	A	-	0.00000	0.00006	0.00008
	A	-	0.00380	0.00388	0.00401
	B	-	0.00387	0.00395	0.00404
	B	-	0.00012	0.00013	0.00013
	B	-	0.00004	0.00006	0.00008
	B	-	0.00364	0.00373	0.00383
	C	(A * B) + (!A * !B)	0.00103	0.00110	0.00119
	C	(A * B) + (!A * !B)	0.00009	0.00009	0.00009
	C	(A * B) + (!A * !B)	-0.00007	-0.00007	-0.00006
	C	(A * B) + (!A * !B)	0.00201	0.00209	0.00217
	C	(A * !B) + (!A * B)	0.00253	0.00262	0.00270
	C	(A * !B) + (!A * B)	0.00000	0.00001	0.00003
	C	(A * !B) + (!A * B)	-0.00001	-0.00000	0.00001
	C	(A * !B) + (!A * B)	0.00190	0.00198	0.00207

Internal switching power(pJ) to Y falling (conditional):

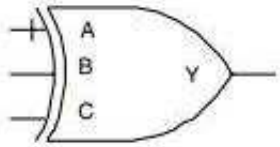
Cell Name	Input	When	Power(pJ)		
			min	avg	max
XOR3X1P4H7H	A	-	0.00396	0.00405	0.00416
	A	-	0.00002	0.00002	0.00009
	A	-	0.00001	0.00005	0.00207
	A	-	0.00397	0.00405	0.00420
	B	-	0.00437	0.00445	0.00453
	B	-	0.00005	0.00006	0.00006
	B	-	0.00000	0.00006	0.00218
	B	-	0.00381	0.00390	0.00399
	C	(A * B) + (!A * !B)	0.00224	0.00231	0.00241
	C	(A * B) + (!A * !B)	-0.00009	-0.00009	-0.00009
	C	(A * B) + (!A * !B)	0.00006	0.00007	0.00007
	C	(A * B) + (!A * !B)	0.00126	0.00134	0.00143
	C	(A * !B) + (!A * B)	0.00175	0.00185	0.00194
	C	(A * !B) + (!A * B)	-0.00002	-0.00001	0.00000
	C	(A * !B) + (!A * B)	0.00000	0.00000	0.00001
	C	(A * !B) + (!A * B)	0.00238	0.00248	0.00258

XOR3X2H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The XOR3 cell provides a logical EXCLUSIVE OR of three inputs (A, B, C). The output (Y) is represented by the following equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	0	0	0
0	0	1	1
0	1	0	1
0	1	1	0
1	0	0	1
1	0	1	0
1	1	0	0
1	1	1	1

Footprint

Cell Name	Area
XOR3X2H7H	6.16000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
XOR3X2H7H	0.00192	0.00099	0.00108	0.06070

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
XOR3X2H7H	0.00000	0.05986	0.05989

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XOR3X2H7H	A->Y (-R)	-	0.20744	0.39239	0.85013
	B->Y (-R)	-	0.23278	0.42872	0.91100
	C->Y (RR)	(A * B) + (!A * !B)	0.10590	0.29395	0.75207
	C->Y (FR)	(A * !B) + (!A * B)	0.16025	0.34564	0.78670

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XOR3X2H7H	A->Y (-F)	-	0.25648	0.40708	0.75270
	B->Y (-F)	-	0.28228	0.44590	0.82423
	C->Y (FF)	(A * B) + (!A * !B)	0.13905	0.30373	0.69291
	C->Y (RF)	(A * !B) + (!A * B)	0.18024	0.32617	0.64562

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
XOR3X2H7H	A	-	0.00375	0.00387	0.00401
	A	-	0.00001	0.00008	0.00010
	A	-	0.00007	0.00007	0.00007
	A	-	0.00405	0.00415	0.00431
	B	-	0.00415	0.00425	0.00436
	B	-	0.00012	0.00012	0.00012
	B	-	0.00006	0.00006	0.00007
	B	-	0.00390	0.00401	0.00413
	C	(A * B) + (!A * !B)	0.00127	0.00136	0.00148
	C	(A * B) + (!A * !B)	0.00008	0.00008	0.00008
	C	(A * B) + (!A * !B)	-0.00007	-0.00006	-0.00005
	C	(A * B) + (!A * !B)	0.00220	0.00230	0.00240
	C	(A * !B) + (!A * B)	0.00278	0.00289	0.00300
	C	(A * !B) + (!A * B)	0.00001	0.00001	0.00001
	C	(A * !B) + (!A * B)	-0.00000	-0.00000	0.00000
	C	(A * !B) + (!A * B)	0.00214	0.00225	0.00236

Internal switching power(pJ) to Y falling (conditional):

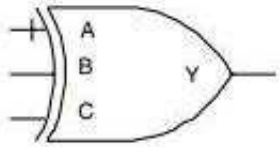
Cell Name	Input	When	Power(pJ)		
			min	avg	max
XOR3X2H7H	A	-	0.00432	0.00444	0.00456
	A	-	-0.00000	0.00002	0.00003
	A	-	0.00011	0.00013	0.00015
	A	-	0.00433	0.00446	0.00462
	B	-	0.00474	0.00483	0.00493
	B	-	0.00004	0.00006	0.00007
	B	-	0.00011	0.00012	0.00012
	B	-	0.00421	0.00431	0.00442
	C	(A * B) + (!A * !B)	0.00258	0.00267	0.00278
	C	(A * B) + (!A * !B)	-0.00008	-0.00008	-0.00008
	C	(A * B) + (!A * !B)	0.00005	0.00006	0.00007
	C	(A * B) + (!A * !B)	0.00165	0.00174	0.00185
	C	(A * !B) + (!A * B)	0.00208	0.00220	0.00231
	C	(A * !B) + (!A * B)	-0.00001	-0.00001	-0.00001
	C	(A * !B) + (!A * B)	0.00000	0.00000	0.00001
	C	(A * !B) + (!A * B)	0.00272	0.00284	0.00295

XOR3X3H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The XOR3 cell provides a logical EXCLUSIVE OR of three inputs (A, B, C). The output (Y) is represented by the following equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	0	0	0
0	0	1	1
0	1	0	1
0	1	1	0
1	0	0	1
1	0	1	0
1	1	0	0
1	1	1	1

Footprint

Cell Name	Area
XOR3X3H7H	6.72000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
XOR3X3H7H	0.00209	0.00111	0.00111	0.08636

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
XOR3X3H7H	0.00000	0.08438	0.08779

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XOR3X3H7H	A->Y (-R)	-	0.16740	0.34990	0.79634
	B->Y (-R)	-	0.19809	0.39107	0.86130
	C->Y (RR)	(A * B) + (!A * !B)	0.09308	0.28044	0.73523
	C->Y (FR)	(A * !B) + (!A * B)	0.13717	0.32034	0.75562

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XOR3X3H7H	A->Y (-F)	-	0.21510	0.36568	0.70992
	B->Y (-F)	-	0.24493	0.40746	0.78232
	C->Y (FF)	(A * B) + (!A * !B)	0.11704	0.28176	0.66630
	C->Y (RF)	(A * !B) + (!A * B)	0.15084	0.29857	0.62458

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
XOR3X3H7H	A	-	0.00423	0.00436	0.00450
	A	-	0.00009	0.00009	0.00010
	A	-	0.00011	0.00011	0.00011
	A	-	0.00450	0.00461	0.00477
	B	-	0.00466	0.00478	0.00490
	B	-	0.00004	0.00005	0.00026
	B	-	0.00009	0.00010	0.00010
	B	-	0.00438	0.00450	0.00462
	C	(A * B) + (!A * !B)	0.00155	0.00167	0.00180
	C	(A * B) + (!A * !B)	0.00009	0.00009	0.00009
	C	(A * B) + (!A * !B)	-0.00007	-0.00006	-0.00005
	C	(A * B) + (!A * !B)	0.00252	0.00263	0.00277
	C	(A * !B) + (!A * B)	0.00314	0.00326	0.00336
	C	(A * !B) + (!A * B)	0.00000	0.00000	0.00001
	C	(A * !B) + (!A * B)	-0.00000	0.00000	0.00003
	C	(A * !B) + (!A * B)	0.00248	0.00260	0.00270

Internal switching power(pJ) to Y falling (conditional):

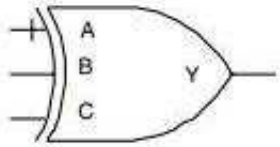
Cell Name	Input	When	Power(pJ)		
			min	avg	max
XOR3X3H7H	A	-	0.00466	0.00479	0.00493
	A	-	0.00003	0.00004	0.00004
	A	-	0.00015	0.00017	0.00022
	A	-	0.00464	0.00477	0.00493
	B	-	0.00511	0.00522	0.00533
	B	-	0.00008	0.00008	0.00008
	B	-	0.00011	0.00015	0.00017
	B	-	0.00454	0.00466	0.00477
	C	(A * B) + (!A * !B)	0.00265	0.00276	0.00289
	C	(A * B) + (!A * !B)	-0.00009	-0.00009	-0.00009
	C	(A * B) + (!A * !B)	0.00005	0.00006	0.00007
	C	(A * B) + (!A * !B)	0.00168	0.00179	0.00192
	C	(A * !B) + (!A * B)	0.00234	0.00246	0.00256
	C	(A * !B) + (!A * B)	-0.00001	-0.00000	0.00001
	C	(A * !B) + (!A * B)	-0.00001	-0.00000	0.00001
	C	(A * !B) + (!A * B)	0.00300	0.00312	0.00322

XOR3X4H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The XOR3 cell provides a logical EXCLUSIVE OR of three inputs (A, B, C). The output (Y) is represented by the following equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	0	0	0
0	0	1	1
0	1	0	1
0	1	1	0
1	0	0	1
1	0	1	0
1	1	0	0
1	1	1	1

Footprint

Cell Name	Area
XOR3X4H7H	7.00000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
XOR3X4H7H	0.00225	0.00118	0.00116	0.10865

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
XOR3X4H7H	0.00000	0.10740	0.11298

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XOR3X4H7H	A->Y (-R)	-	0.16684	0.34992	0.79467
	B->Y (-R)	-	0.19247	0.38608	0.85598
	C->Y (RR)	(A * B) + (!A * !B)	0.09380	0.28203	0.73680
	C->Y (FR)	(A * !B) + (!A * B)	0.13738	0.32033	0.75240

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XOR3X4H7H	A->Y (-F)	-	0.21312	0.35947	0.68654
	B->Y (-F)	-	0.23890	0.39763	0.75702
	C->Y (FF)	(A * B) + (!A * !B)	0.11649	0.27714	0.64874
	C->Y (RF)	(A * !B) + (!A * B)	0.15338	0.29597	0.60362

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
XOR3X4H7H	A	-	0.00480	0.00497	0.00516
	A	-	0.00000	0.00010	0.00043
	A	-	0.00014	0.00014	0.00014
	A	-	0.00520	0.00533	0.00552
	B	-	0.00528	0.00543	0.00557
	B	-	0.00014	0.00015	0.00015
	B	-	0.00012	0.00012	0.00015
	B	-	0.00491	0.00506	0.00523
	C	(A * B) + (!A * !B)	0.00188	0.00201	0.00217
	C	(A * B) + (!A * !B)	0.00009	0.00009	0.00011
	C	(A * B) + (!A * !B)	-0.00007	-0.00006	-0.00006
	C	(A * B) + (!A * !B)	0.00288	0.00302	0.00318
	C	(A * !B) + (!A * B)	0.00357	0.00372	0.00387
	C	(A * !B) + (!A * B)	-0.00002	-0.00000	0.00000
	C	(A * !B) + (!A * B)	0.00001	0.00001	0.00005
	C	(A * !B) + (!A * B)	0.00283	0.00298	0.00313

Internal switching power(pJ) to Y falling (conditional):

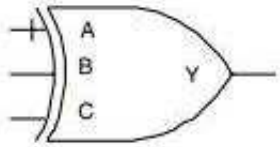
Cell Name	Input	When	Power(pJ)		
			min	avg	max
XOR3X4H7H	A	-	0.00535	0.00551	0.00568
	A	-	0.00006	0.00006	0.00008
	A	-	0.00018	0.00018	0.00022
	A	-	0.00548	0.00564	0.00582
	B	-	0.00585	0.00599	0.00612
	B	-	0.00011	0.00012	0.00012
	B	-	0.00015	0.00016	0.00018
	B	-	0.00522	0.00537	0.00552
	C	(A * B) + (!A * !B)	0.00305	0.00317	0.00332
	C	(A * B) + (!A * !B)	-0.00011	-0.00009	-0.00009
	C	(A * B) + (!A * !B)	0.00006	0.00006	0.00007
	C	(A * B) + (!A * !B)	0.00204	0.00216	0.00232
	C	(A * !B) + (!A * B)	0.00284	0.00300	0.00314
	C	(A * !B) + (!A * B)	0.00000	0.00000	0.00003
	C	(A * !B) + (!A * B)	-0.00002	-0.00001	-0.00001
	C	(A * !B) + (!A * B)	0.00358	0.00373	0.00387

XOR3X6H7H

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The XOR3 cell provides a logical EXCLUSIVE OR of three inputs (A, B, C). The output (Y) is represented by the following equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	0	0	0
0	0	1	1
0	1	0	1
0	1	1	0
1	0	0	1
1	0	1	0
1	1	0	0
1	1	1	1

Footprint

Cell Name	Area
XOR3X6H7H	7.28000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
XOR3X6H7H	0.00223	0.00118	0.00125	0.16285

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
XOR3X6H7H	0.00000	0.12317	0.13305

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XOR3X6H7H	A->Y (-R)	-	0.18349	0.37019	0.81782
	B->Y (-R)	-	0.20938	0.40644	0.87879
	C->Y (RR)	(A * B) + (!A * !B)	0.10975	0.30435	0.77070
	C->Y (FR)	(A * !B) + (!A * B)	0.15357	0.34079	0.77621

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XOR3X6H7H	A->Y (-F)	-	0.23587	0.39018	0.72715
	B->Y (-F)	-	0.26172	0.42830	0.79757
	C->Y (FF)	(A * B) + (!A * !B)	0.13860	0.30997	0.70143
	C->Y (RF)	(A * !B) + (!A * B)	0.17642	0.32770	0.64671

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
XOR3X6H7H	A	-	0.00553	0.00574	0.00599
	A	-	0.00000	0.00005	0.00006
	A	-	0.00018	0.00018	0.00018
	A	-	0.00586	0.00604	0.00629
	B	-	0.00603	0.00622	0.00643
	B	-	0.00000	0.00000	0.00013
	B	-	0.00016	0.00016	0.00016
	B	-	0.00559	0.00578	0.00600
	C	(A * B) + (!A * !B)	0.00263	0.00280	0.00303
	C	(A * B) + (!A * !B)	0.00004	0.00005	0.00006
	C	(A * B) + (!A * !B)	-0.00003	-0.00003	-0.00002
	C	(A * B) + (!A * !B)	0.00361	0.00379	0.00401
	C	(A * !B) + (!A * B)	0.00438	0.00457	0.00476
	C	(A * !B) + (!A * B)	-0.00006	-0.00005	-0.00004
	C	(A * !B) + (!A * B)	0.00005	0.00005	0.00005
	C	(A * !B) + (!A * B)	0.00352	0.00371	0.00390

Internal switching power(pJ) to Y falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
XOR3X6H7H	A	-	0.00601	0.00621	0.00641
	A	-	0.00010	0.00010	0.00013
	A	-	0.00014	0.00014	0.00015
	A	-	0.00624	0.00641	0.00664
	B	-	0.00651	0.00670	0.00688
	B	-	0.00015	0.00016	0.00016
	B	-	0.00012	0.00012	0.00012
	B	-	0.00596	0.00615	0.00634
	C	(A * B) + (!A * !B)	0.00379	0.00396	0.00416
	C	(A * B) + (!A * !B)	-0.00006	-0.00005	-0.00004
	C	(A * B) + (!A * !B)	0.00002	0.00003	0.00003
	C	(A * B) + (!A * !B)	0.00281	0.00297	0.00318
	C	(A * !B) + (!A * B)	0.00351	0.00370	0.00388
	C	(A * !B) + (!A * B)	0.00004	0.00005	0.00011
	C	(A * !B) + (!A * B)	-0.00005	-0.00005	-0.00005
	C	(A * !B) + (!A * B)	0.00436	0.00456	0.00474